

Alsea School Board Meeting
Thursday, October 13, 2022
7:00 PM
Alsea School Library
301 South 3rd Street
Alsea, OR 97324



Alsea School District 7J
301 South 3rd Street
Alsea, OR 97324
541.487.4305

1. Call to Order
2. Flag Salute
3. Approval of the Agenda
4. District Recognition:
 - a. Brick and Mortar
 - i. Student:
 - ii. Employee
5. Superintendent Report:

Sean Gallagher

 - a. Fireside Chat Schedule Report
 - b. State Assessment Scores Report
 - c. Role of a Project Manager
 - d. Bond Update: Sean Gallagher
 - a. GMP
 - b. Budget
 - e. Safety Assessment for our District



District Administration Office
Mr. Sean Gallagher – Acting Superintendent

301 S 3rd St

Alsea, OR 97324

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www.alsea.k12.or.us

MEMO

Date: 6/13/2022

To: Board of Directors

From: Sean Gallagher – Superintendent

Re: District Priorities for 2022-23

Board Development

- Board **Policy Development**
 - OSBA Policy Revision
- **Efficient and Effective** Board Meetings
 - OSBA Professional Development & Training
 - Regional
 - State Conferences
 - OSBA Board Chair Development & Training Network
- Guide, evaluate, and supervise the Superintendent
 - Restore **Supt Evaluation Process**

Superintendent

- School Improvement
 - Create a district Continuous Improvement Plan (**CIP**)
 - Aligning for Student Success (AFSS) – ODE
 - OSBA sponsored **charter review**
- Increase **communications** to Board of Directors, Staff, & Community
 - Board Weekly Notes
 - Regular attendance at staff meetings
 - Fireside Chats
 - Public Information Officer generated press releases
 - Implementation of BoardBooks

- Personnel
 - Restructure ASD **Hierarchical Chart**
 - **HR Reset** Project (COSA)
 - Salary schedule rebalancing & comparison analysis
 - Job Descriptions
 - Contracts
 - Leaves and accountabilities
 - Restore **clear expectations** for all HR related issues
 - Reauthor job descriptions
 - Hires:
 - Necessary positions with **natural attrition** of non-necessary positions
 - Restore **Staff Evaluations** Process in accordance with state law
 - Author **Faculty Handbook** – Nicole & Annastazia
 - Leaves
 - Processes
 - Expectations
 - Position classifications
 - Hiring process
 - **Teacher Mentoring** Program with LBL ESD
 - Training for substitutes and instructional aides – Annastazia & Nicole
 - **Negotiations** with Certified Union
- Budget
 - Restore a 10-15% **cash carryover**
 - Target = \$1.8-2.0M
 - Current Cash Carryover = \$1.3M
 - Restore **checks and balances**
 - Restore a **sustainable budget**
- Programs
 - Refocus district on priority programs that meet Division 22 Standards
 - AHS Accreditation Project
 - **Oregon Records Management System (ORMS) Implementation**
 - **Conversion from SIS to Synergy**
- Curriculum
 - Lead district in restoring curriculum cycles and curriculum that meets state standards and are effective tools for classroom instruction
 - **ELA Textbook Adoption K-12**
 - **Math Textbook Adoption 7-12**
- State/Federal Reports
 - **Restore** a system of gathering and reporting accurate data
 - **Reassign** appropriate personnel to be in charge of certain state reports that align with job descriptions
 - **Aligning for Student Success project**
- Charter
 - **Revisit current charter**, ensure that language in the charter clearly states expectations (OSBA)

- Facilities
 - Bond Project
 - Restore order and checks & balances in the process for the district and community
 - Ensure that the community garners the best value for their tax money
 - Seismic Application
- Superintendent Services
 - Assist the district in securing a new Superintendent that is a good match after my tenure
- Other

PROJECT MANUAL

ALSEA SCHOOL DISTRICT

K-12 BUILDING HVAC UPGRADE

PHASES 1c9 & 2c22



100% AGENCY & BID ISSUE
21 SEPTEMBER 2022

SITE ADDRESS:
ALSEA SCHOOL DISTRICT
301 SOUTH 3rd STREET
ALSEA, OREGON 97324



STRAIGHTLINE
ARCHITECTURE

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PROJECT TEAM



OWNER:
ALSEA SCHOOL DISTRICT
301 SOUTH 3rd STREET
ALSEA, OREGON 97324



CONSTRUCTION MANAGER:
CB CONSTRUCTION, INC.
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SECTION 011000 - SUMMARY OF WORK AND GENERAL REQUIREMENTS

PART 1 - GENERAL

1.1. RELATED DOCUMENTS

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

1.2. DESCRIPTION OF THE PROJECT

This project will include HVAC upgrades to the existing K-12 building for the Alsea School District. Currently the K-12 building is heated by an end of life fuel oil boiler. The existing shop and technology classroom has an updated HVAC system and will not be included in this project. Demolition of the boiler, boiler room, and associated existing heating system components (radiators, wall units, etc.) will not be part of this project.

The new scope of work will include removal and replacement of the gymnasium RTU & associated ducting, and installation of Mini-split units (Fan coil & heat pump units) at classrooms and ancillary spaces as defined on the drawings.

Please note that the School campus is undergoing a building wide power upgrade which includes new panels and utility transformer. Electrical work shown on the drawings indicate scope of power work as they relate to this and other ongoing projects.

ONGOING AND FUTURE BOND PHASES

(Listed for reference purposes only and electrical one-line diagram coordination)

- 1a2 NEW POWER SERVICE CONSTRUCTION
- 1a3 NEW VOC / CTIL SHOP
- 1c9 HVAC CLASSROOM UPGRADES
- 1c11 NEW 6-8TH CLASSROOM BUILDING
- 2b15 CAFETERIA & KITCHEN RE-PURPOSE
- 2c25 COMMUNITY CENTER ADDITION

1.3. CONTRACT DOCUMENTS

- A. The Contract Documents for the Work are entitled:

**K-12 BUILDING HVAC UPGRADES
PHASES 1c9-2c22
Alsea Rock School District**

B. The Contract Documents are dated; 9-21-2022

1.4. TYPE OF CONTRACT

A. Project will be constructed under a prime contract with project CM/GC.

1.5. WORK PHASES

A. The work shall be conducted in a singular overall phase. See section 1.2 for project delivery.

B. See section 013200 for scheduling requirements.

1.6. USE OF PREMISES

A. General: Contractor shall have use of premises for construction operations, including use of designated areas of the Project site, during the construction period. Contractor's use of premises is limited by Owner's right to continually occupy facility, perform work or to retain other contractors on portions of Project.

B. Use of Site: Limit use of premises indicated on the Drawings. This area will be further defined at the preconstruction meeting. Do not disturb portions of Project site beyond areas in which the Work is indicated.

C. Contractor shall maintain roads and streets surrounding the project site in an accessible and clean condition throughout the construction period.

1. Roads and streets surrounding the project site shall not be blocked to vehicle traffic at any time by operations under this Contract.

2. Contractor shall remove and sweep construction debris due to work under this Contract from paved sidewalks, roads and streets adjacent to and in direct vicinity of the site on a daily basis.

3. Contractor and construction personnel shall not park equipment or personal vehicles along roads and streets surrounding the project site, nor in a manner to disrupt traffic flow or access to any adjacent properties.

4. Contractor shall not enter adjacent properties, private driveways, etc., for any reason. Do not use adjacent properties or private driveways for vehicle turn-around.

5. Contractor shall not drive on, park on, or store equipment or materials on

properties adjacent to the site without the express written permission of the owner of such properties. Materials stored on adjacent properties shall not be considered as "stored on site" for determining amounts of payments owed to Contractor.

1.7. OWNER'S OCCUPANCY REQUIREMENTS

- A. Owner Occupancy of existing facility: Owner will occupy and use the facility during construction in this project. The contractor shall adhere to this owner's right.

1.8. WORK RESTRICTIONS

- A. On-Site Work Days and Hours:

Construction activities can occur Monday through Friday 7 a.m. to 5:30 p.m. expanded work days or hours may be allowed by the CM/GC on an as needed justifiable basis.

- A. Existing Utility Interruptions: Do not interrupt utilities serving others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:
 - 1. Notify Owners Authorized Representative not less than three days in advance of proposed utility interruptions.
 - 2. Do not proceed with utility interruptions without Owners Authorized Representative permission

1.9. SPECIFICATION FORMATS AND CONVENTIONS

- A. Specification Format: The Specifications are organized into Divisions and Sections using the 50-division format and CSI/CSC's "Master Format" numbering system.
 - 1. Section Identification: The Specifications use Section numbers and titles to help cross-referencing in the Contract Documents. Sections in the Project Manual are in numeric sequence; however, the sequence is incomplete because all available Section numbers are not used. Consult the table of contents at the beginning of the Project Manual to determine numbers and names of Sections in the Contract Documents
 - 2. Division 01: Sections in Division 01 govern the execution of the Work of all Sections in the Specifications.
- B. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:

1. Abbreviated Language: Language used in the Specifications and other Contract Documents is abbreviated. Words and meanings shall be interpreted as appropriate. Words implied, but not stated, shall be inferred as the sense requires. Singular words shall be interpreted as plural and plural words shall be interpreted as singular where applicable as the context of the Contract Documents indicates.
2. Imperative mood and streamlined language are generally used in the Specifications. Requirements expressed in the imperative mood are to be performed by Contractor. Occasionally, the indicative or subjunctive mood may be used in the Section Text for clarity to describe responsibilities that must be fulfilled indirectly by Contractor or by others when so noted.
 - a. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.

1.10. FIRE RATED ASSEMBLIES

- A. Fire rated construction shall conform to all requirements of fire rated assemblies referenced on the Drawings described in the Specifications, and/or included in appendices in the Project Manual.
 1. The Contractor shall provide all components necessary to conform to any and all referenced assemblies.

1.11. STORM WATER CONTROL

- A. Contractor shall implement all provisions of storm water control and pollution prevention requirements contained in the Contract Documents. Contractor shall conform to all requirements of United States Environmental Protection Agency (EPA) "National Pollutant Discharge Elimination System" regulations and make required applications to EPA. Storm water control and pollution prevention plans will remain available for review at Construction Manager's construction office throughout the course of the Work.

1.12. OWNERSHIP OF REMOVALS

- A. The Contractor shall be responsible for any and all demolition and removal as may be necessary and required to fulfill the requirements of the Contract Documents.
- B. All removals shall belong to the Contractor and shall be removed from the premises by him and legally disposed of at his expense.

1.13. WORK NOT NOTED, DETAILED, OR SPECIFIED

- A. All work required for a complete installation or assembly shall be included in the

Contractor's Contract Price. Where minor portions of required work are not noted, detailed or specified, such work shall be done in accordance with proven construction practice, industry standards, or as directed by Architect. Such required work shall be done at no additional cost to Owner.

Provide all means, methods, labor, materials, and equipment to provide project scope of work as defined in the contract documents. All associated work shall be completed, per manufacturer's specifications, building codes, ordinances and requirements, and other trades and/or as directed by Owners Authorized Representative

1.14. DIMENSIONS AND MEASUREMENTS

- A. Contractor shall field verify all dimensions pertaining to the work and shall be responsible for the determination of all quantities of materials required for the work and for the accuracy of all dimensions of materials and items fabricated for this project. Contractor shall not rely on the scale drawings in the project Drawings in the determination of exact quantities or dimensions.

1.15. GENERAL INSTALLATION PROVISIONS

- A. Inspection of Conditions: Require the Installer of each major component to inspect both the substrate and conditions under which Work is to be performed. Installation of affected components shall not proceed until unsatisfactory conditions have been corrected in an acceptable manner.
- B. Manufacturer's Instructions. Contractor shall comply with manufacturer's installation instructions and recommendations, to the extent that those instructions and recommendations are more explicit or stringent than requirements contained in Contract Documents.
- B. Contractor shall inspect materials or equipment immediately upon delivery and prior to installation and shall reject damaged and defective items.
- C. Contractor shall provide all attachment and connection devices and methods necessary for securing Work. Secure Work true to line and level. Allow for expansion and building movement.
- E. Visual Effects: Contractor shall provide uniform joint widths in exposed Work. Arrange joints in exposed Work to obtain the best visual effect. Refer questionable choices to Architect for final decision.
- F. Contractor shall check and recheck measurements, dimensions, and elevations before starting each installation and shall be responsible for the accuracy of all measurements, dimensions, and elevations.

- G. Contractor shall install each component during acceptable weather conditions.
- H. Mounting Heights: Where mounting heights are not indicated, Contractor shall install individual components at standard mounting heights recognized within the industry for the particular application indicated. Refer questionable mounting height decisions to the Architect for final decision. Mount items on walls to conform to the requirements of the Americans with Disabilities Act.
- I. Blocking and Backing: Contractor shall provide blocking and backing in walls, ceiling, etc., for all items mounted on walls, ceilings, etc., for which blocking and backing is required. Verify blocking and backing requirements for all wall and ceiling mounted items and provide such blocking and backing at no additional cost to the Owner, whether or not such items and / or blocking are indicated on the Drawings. Verify all blocking and backing is installed prior to installation of finish materials. Contractor shall include, but not limit to, blocking and backing for the following:
 - 1. Other wall and ceiling mounted items and indicated Owner furnished / Contractor installed items
 - 2. Mechanical, plumbing, and electrical items, fixtures, and equipment.

1.16. CLEANING AND PROTECTION

- A. During handling and installation, The Contractor shall clean and protect construction in progress and adjoining materials in place. Apply protective coverings where required to ensure protection from damage or deterioration at Substantial Completion.
- B. The Contractor shall clean and maintain completed construction as frequently as necessary through the construction period. Adjust and lubricate operable components to ensure operability without damaging effects.
- C. Limiting Exposures: The Contractor shall supervise construction activities to ensure that no part of the construction completed or in progress, is subject to harmful, dangerous, damaging or otherwise deleterious exposure from any source during the construction period.

1.17. REQUIREMENTS OF DRAWINGS AND SPECIFICATIONS

- A. All items of Work shown or noted on the Drawings and / or described in the Project Manual shall be provided by the Contractor as a part of his Work. Should an item be shown or noted on the Drawings and not described in the Project Manual, the Contractor shall provide the item at no additional cost to the Owner. Should an item be described in the Project Manual and not shown or noted on the Drawings, the

Contractor shall provide the item at no additional cost to the Owner.

1.18. CONTRACTOR'S STAGING AREA

- A. Initial Staging areas include immediate areas surrounding area of work. Specific areas will be discussed more in depth at the Pre-construction meeting and shall be further defined by the CM/GC.**

END OF SECTION 011000

SECTION 012600 - CONTRACT MODIFICATION PROCEDURES

PART 1 - GENERAL

1.1 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.

1.2 SUMMARY

- A. This Section specifies administrative and procedural requirements for handling and processing Contract modifications.

1.3 MINOR CHANGES IN THE WORK

- A. Architect will issue supplemental instructions authorizing Minor Changes in the Work, not involving adjustment to the Contract Sum or the Contract Time, on AIA Document G710, "Architect's Supplemental Instructions." Or on another form which the Architect deems appropriate.

1.4 PROPOSAL REQUESTS (PR) / CHANGE ORDER REQUESTS (COR)

- A. Owner-Initiated Proposal Requests / Change Order Requests: Architect will issue a detailed description of proposed changes in the Work that may require adjustment to the Contract Sum or the Contract Time. If necessary, the description will include supplemental or revised Drawings and Specifications.
 - 1. Proposal Requests issued by Architect are for information only. Do not consider them instructions either to stop work in progress or to execute the proposed change.
 - 2. Within time specified in Proposal Request after receipt of Proposal Request, submit a quotation estimating cost adjustments to the Contract Sum and the Contract Time necessary to execute the change.
 - a. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
 - b. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.

- c. Include costs of labor and supervision directly attributable to the change.
 - d. Include an updated Contractor's Construction Schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.
 - B. Contractor-Initiated Proposals: If latent or unforeseen conditions require modifications to the Contract, Contractor may propose changes by submitting a request for a change to Architect.
 - 1. Include a statement outlining reasons for the change and the effect of the change on the Work. Provide a complete description of the proposed change. Indicate the effect of the proposed change on the Contract Sum and the Contract Time.
 - 2. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
 - 3. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
 - 4. Include costs of labor and supervision directly attributable to the change.
 - 5. Include an updated Contractor's Construction Schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.
 - 6. Comply with requirements in Division 01 Section "Product Requirements" if the proposed change requires substitution of one product or system for product or system specified.
 - C. Proposal Request Form: Use AIA Document G709 for Contractor initiated Proposals, or on another form which the Architect deems appropriate.
- 1.5 CHANGE ORDER PROCEDURES (CO)
- A. On Owner's approval of a Proposal Request, Architect will issue a Change Order for signatures of Owner and Contractor on form provided by Owner.
 - B. Any Change Order prepared, including but not limited to those arising by reason of the parties' mutual agreement or by mediation, shall constitute a final and full settlement of all matters relating to or affected by the change in the work, including, but not limited to, all direct, indirect and consequential costs associated with such change and

any and all adjustments to the Contract Sum and Contract Time. In the event a Change Order increases the Contract Sum, the Contractor shall include the work covered by such Change Order in the Application for Payment as if such work were originally part of the Project and Contract Documents.

- C. By the execution of a Change Order, the Contractor agrees and acknowledges that he has had sufficient time and opportunity to examine the change in work which is the subject of the Change Order and that he has undertaken all reasonable efforts to discover and disclose any concealed or unknown conditions which may to any extent affect the Contractor's ability to perform in accordance with the Change Order. Aside from those matters specifically set forth in the Change Order, the Owner shall not be obligated to make any adjustments to either the Contract Sum or Contract Time by reason of any conditions affecting the change in work addressed by the Change Order, which could have reasonably been discovered or disclosed by the Contractor's examination.

1.6 CONSTRUCTION CHANGE DIRECTIVE (CCD)

- A. Construction Change Directive: Architect may issue a Construction Change Directive on form provided by Owner. Construction Change Directive instructs Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order.
 - 1. Construction Change Directive contains a complete description of change in the Work. It also designates method to be followed to determine change in the Contract Sum or the Contract Time.
- B. Documentation: Maintain detailed records on a time and material basis of work required by the Construction Change Directive.
 - 1. After completion of change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract.

1.7 ARCHITECTS SUPPLEMENTAL INSTRUCTIONS

- A. **(ASI) are issued by the Architect to clarify the documents, reply to RFI's, request additional work or to make minor changes to the project documents. The Contractor shall review the ASI for potential cost or time implications to the contract. If the contractor believes an ASI contains added work or changes that involve increases or decreases in the contract amount or time, the contractor shall provide a Change order Request (COR) to the Architect so as to start a change in the contract.**

END OF SECTION 012600

SECTION 014000 - QUALITY REQUIREMENTS

PART 1 - GENERAL

1.1 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.

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements for quality assurance and quality control.
- B. Testing and inspecting services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with the Contract Document requirements.
 - 1. Specific quality-assurance and -control requirements for individual construction activities are specified in the Sections that specify those activities. Requirements in those Sections may also cover production of standard products.
 - 2. Specified tests, inspections, and related actions do not limit Contractor's other quality-assurance and -control procedures that facilitate compliance with the Contract Document requirements.
 - 3. Requirements for Contractor to provide quality-assurance and -control services required by Architect, Owners Authorized Representative, or authorities having jurisdiction are not limited by provisions of this Section.

1.3 DEFINITIONS

- A. Quality-Assurance Services: Activities, actions, and procedures performed before and during execution of the Work to guard against defects and deficiencies and substantiate that proposed construction will comply with requirements.
- B. Quality-Control Services: Tests, inspections, procedures, and related actions during and after execution of the Work to evaluate that actual products incorporated into the Work and completed construction comply with requirements. Services do not include contract enforcement activities performed by Architect
- C. Mockups: Full-size, physical assemblies that are constructed on-site. Mockups are used to verify selections made under sample submittals, to demonstrate aesthetic effects and, where indicated, qualities of materials and execution, and to review

construction, coordination, testing, or operation; they are not Samples. Approved mockups establish the standard by which the Work will be judged.

- D. Laboratory Mockups: Full-size, physical assemblies that are constructed at testing facility to verify performance characteristics.
- E. Preconstruction Testing: Tests and inspections that are performed specifically for the Project before products and materials are incorporated into the Work to verify performance or compliance with specified criteria.
- F. Product Testing: Tests and inspections that are performed by an NRTL, an NVLAP, or a testing agency qualified to conduct product testing and acceptable to authorities having jurisdiction, to establish product performance and compliance with industry standards.
- G. Source Quality-Control Testing: Tests and inspections that are performed at the source, i.e., plant, mill, factory, or shop.
- H. Field Quality-Control Testing: Tests and inspections that are performed on-site for installation of the Work and for completed Work.
- I. Testing Agency: An entity engaged to perform specific tests, inspections, or both. Testing laboratory shall mean the same as testing agency.
- J. Installer/Applicator/Erector: Contractor or another entity engaged by Contractor as an employee, Subcontractor, or Sub-subcontractor, to perform a particular construction operation, including installation, erection, application, and similar operations.
 - 1. Using a term such as "carpentry" does not imply that certain construction activities must be performed by accredited or unionized individuals of a corresponding generic name, such as "carpenter." It also does not imply that requirements specified apply exclusively to trades people of the corresponding generic name.
- K. Experienced: When used with an entity, "experienced" means having successfully completed previous projects similar in size and scope to this Project; being familiar with special requirements indicated; and having complied with requirements of authorities having jurisdiction.

1.4 CONFLICTING REQUIREMENTS

- A. General: If compliance with two or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement. Refer uncertainties and

requirements that are different, but apparently equal, to Architect for a decision before proceeding.

- B. Minimum Quantity or Quality Levels: The quantity or quality level shown or specified shall be the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. To comply with these requirements, indicated numeric values are minimum or maximum, as appropriate, for the context of requirements. Refer uncertainties to Architect for a decision before proceeding.

1.5 SUBMITTALS

- A. Qualification Data: For testing agencies specified in "Quality Assurance" Article to demonstrate their capabilities and experience. Include proof of qualifications in the form of a recent report on the inspection of the testing agency by a recognized authority.
- B. Reports: Prepare and submit certified written reports FOR contractor provided tests and inspections that include the following:
 - 1. Date of issue.
 - 2. Project title and number.
 - 3. Name, address, and telephone number of testing agency.
 - 4. Dates and locations of samples and tests or inspections.
 - 5. Names of individuals making tests and inspections.
 - 6. Description of the Work and test and inspection method.
 - 7. Identification of product and Specification Section.
 - 8. Complete test or inspection data.
 - 9. Test and inspection results and an interpretation of test results.
 - 10. Record of temperature and weather conditions at time of sample taking and testing and inspecting.
 - 11. Comments or professional opinion on whether tested or inspected Work complies with the Contract Document requirements.
 - 12. Name and signature of laboratory inspector.
 - 13. Recommendations on re-testing and re-inspecting.
- C. Permits, Licenses, and Certificates: For Owner's records, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, correspondence, records, and similar documents, established for compliance with standards and regulations bearing on performance of the Work.

1.6 QUALITY ASSURANCE

- A. General: Qualifications paragraphs in this Article establish the minimum qualification levels required; individual Specification Sections specify additional requirements.
- B. Installer Qualifications: A firm or individual experienced in installing, erecting, or assembling work similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance.
- C. Manufacturer Qualifications: A firm experienced in manufacturing products or systems similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
- D. Fabricator Qualifications: A firm experienced in producing products similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
- E. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of the system, assembly, or product that are similar to those indicated for this Project in material, design, and extent.
- F. Specialists: Certain sections of the Specifications require that specific construction activities shall be performed by entities who are recognized experts in those operations. Specialists shall satisfy qualification requirements indicated and shall be engaged for the activities indicated.
 - 1. Requirement for specialists shall not supersede building codes and regulations governing the Work.
- G. Testing Agency Qualifications: An independent agency with the experience and capability to conduct testing and inspecting indicated, as documented according to ASTM E 548; and with additional qualifications specified in individual Sections; and where required by authorities having jurisdiction, that is acceptable to authorities.
- H. Preconstruction Testing: Where testing agency is indicated to perform preconstruction testing for compliance with specified requirements for performance and test methods, comply with the following:
 - 1. Contractor responsibilities include the following:
 - a. Provide test specimens representative of proposed products and construction.

- b. Submit specimens in a timely manner with sufficient time for testing and analyzing results to prevent delaying the Work.
 - c. Provide sizes and configurations of test assemblies, mockups, and laboratory mockups to adequately demonstrate capability of products to comply with performance requirements.
 - d. Build site-assembled test assemblies and mockups using installers who will perform same tasks for Project.
 - e. Build laboratory mockups at testing facility using personnel, products, and methods of construction indicated for the completed Work.
 - f. When testing is complete, remove test specimens, assemblies, mockups, and laboratory mockups; do not reuse products on Project.
2. Testing Agency Responsibilities: Submit a certified written report of each test, inspection, and similar quality-assurance service to Architect, Owner, and Contractor. Interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from the Contract Documents.
- I. Mockups: Before installing portions of the Work requiring mockups, build mockups for each form of construction and finish required to comply with the following requirements, using materials indicated for the completed Work:
- 1. Build mockups in location and of size indicated or, if not indicated, as directed by Architect.
 - 2. Notify Architect ten days in advance of dates and times when mockups will be constructed.
 - 3. Demonstrate the proposed range of aesthetic effects and workmanship.
 - 4. Obtain Architect's approval of mockups before starting work, fabrication, or construction.
 - a. Allow ten days for initial review and each re-review of each mockup.
 - 5. Maintain mockups during construction in an undisturbed condition as a standard for judging the completed Work.
 - 6. Demolish and remove mockups when directed, unless otherwise indicated.

1.7 QUALITY CONTROL

- A. Owner Responsibilities: Where quality-control services are indicated as Owner's responsibility, Owner will engage a qualified testing agency to perform these services.
- 1. Owners Authorized Representative will furnish Contractor with names, addresses, and telephone numbers of testing agencies engaged and a description of types of testing and inspecting they are engaged to perform.

2. Costs for retesting and re-inspecting construction that replaces or is necessitated by work that failed to comply with the Contract Documents will be charged to Contractor.
- B. Tests and inspections not explicitly assigned to Owner are Contractor's responsibility. Unless otherwise indicated, provide quality-control services specified and those required by authorities having jurisdiction. Perform quality-control services required of Contractor by authorities having jurisdiction, whether specified or not.
1. Where services are indicated as Contractor's responsibility, engage a qualified testing agency to perform these quality-control services.
 - a. Contractor's testing agency shall be acceptable to Owner and Architect.
 - b. Contractor shall not employ same entity engaged by Owner, unless agreed to in writing by Owner.
 2. Notify testing agencies at least 24 hours in advance of time when Work that requires testing or inspecting will be performed.
 3. Where quality-control services are indicated as Contractor's responsibility, submit a certified written report, in duplicate, of each quality-control service.
 4. Testing and inspecting requested by Contractor and not required by the Contract Documents are Contractor's responsibility.
 5. Submit additional copies of each written report directly to authorities having jurisdiction, when they so direct.
- C. Manufacturer's Field Services: Where indicated, engage a factory-authorized service representative to inspect field-assembled components and equipment installation, including service connections. Report results in writing as specified in Division 01 Section "Submittal Procedures."
- D. Retesting/Reinspecting: Regardless of whether original tests or inspections were Contractor's responsibility, provide quality-control services, including retesting and reinspecting, for construction that replaced Work that failed to comply with the Contract Documents.
- E. Testing Agency Responsibilities: Cooperate with Architect and Contractor in performance of duties. Provide qualified personnel to perform required tests and inspections.
1. Notify Architect and Contractor promptly of irregularities or deficiencies observed in the Work during performance of its services.
 2. Determine the location from which test samples will be taken and in which in-situ tests are conducted.
 3. Conduct and interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from requirements.

4. Submit a certified written report, in duplicate, of each test, inspection, and similar quality-control service through Contractor.
 5. Do not release, revoke, alter, or increase the Contract Document requirements or approve or accept any portion of the Work.
 6. Do not perform any duties of Contractor.
- F. Associated Services: Cooperate with agencies performing required tests, inspections, and similar quality-control services, and provide reasonable auxiliary services as requested. Notify agency sufficiently in advance of operations to permit assignment of personnel but not less than 24 hours in advance of operations requiring tests and inspections. Provide the following:
1. Access to the Work.
 2. Incidental labor and facilities necessary to facilitate tests and inspections.
 3. Adequate quantities of representative samples of materials that require testing and inspecting. Assist agency in obtaining samples.
 4. Facilities for storage and field curing of test samples.
 5. Delivery of samples to testing agencies.
 6. Preliminary design mix proposed for use for material mixes that require control by testing agency.
 7. Security and protection for samples and for testing and inspecting equipment at Project site.
- G. Coordination: Coordinate sequence of activities to accommodate required quality-assurance and -control services with a minimum of delay and to avoid necessity of removing and replacing construction to accommodate testing and inspecting.
1. Schedule times for tests, inspections, obtaining samples, and similar activities.

1.8 SPECIAL TESTS AND INSPECTIONS

- A. Special Tests and Inspections: Owner will engage a qualified testing agency and / or special inspector to conduct special tests and inspections required by authorities having jurisdiction as the responsibility of Owner, and as follows:
1. Verifying that manufacturer maintains detailed fabrication and quality-control procedures and reviewing the completeness and adequacy of those procedures to perform the Work.
 2. Notifying Architect and Contractor promptly of irregularities and deficiencies observed in the Work during performance of its services.
 3. Submitting a certified written report of each test, inspection, and similar quality-control service to Architect with copy to Contractor and to authorities having jurisdiction.

4. Submitting a final report of special tests and inspections at Substantial Completion, which includes a list of unresolved deficiencies.
5. Interpreting tests and inspections and stating in each report whether tested and inspected work complies with or deviates from the Contract Documents.
6. Retesting and reinspecting corrected work.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 TEST AND INSPECTION LOG

- A. Prepare a record of tests and inspections. Include the following:
 1. Date test or inspection was conducted.
 2. Description of the Work tested or inspected.
 3. Date test or inspection results were transmitted to Architect.
 4. Identification of testing agency or special inspector conducting test or inspection.
- B. Maintain log at Project site. Post changes and modifications as they occur. Provide access to test and inspection log for Architect's reference during normal working hours.

3.2 REPAIR AND PROTECTION

- A. General: On completion of testing, inspecting, sample taking, and similar services, repair damaged construction and restore substrates and finishes.
 1. Provide materials and comply with installation requirements specified in other Specification Sections. Restore patched areas and extend restoration into adjoining areas with durable seams that are as invisible as possible.
 2. Comply with the Contract Document requirements for Division 01 Section "Cutting and Patching."
- B. Protect construction exposed by or for quality-control service activities.
- C. Repair and protection are Contractor's responsibility, regardless of the assignment of responsibility for quality-control services.

END OF SECTION 014000

SECTION 014200 - REFERENCES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract apply to this Section.

1.2 DEFINITIONS

- A. General: Basic Contract definitions are included in the Conditions of the Contract.
- B. "Approved": When used to convey Architect's action on Contractor's submittals, applications, and requests, "approved" is limited to Architect's duties and responsibilities as stated in the Conditions of the Contract.
- C. "Directed": A command or instruction by Architect. Other terms including "requested," "authorized," "selected," "required," and "permitted" have the same meaning as "directed."
- D. "Indicated": Requirements expressed by graphic representations or in written form on Drawings, in Specifications, and in other Contract Documents. Other terms including "shown," "noted," "scheduled," and "specified" have the same meaning as "indicated."
- E. "Regulations": Laws, ordinances, statutes, and lawful orders issued by authorities having jurisdiction, and rules, conventions, and agreements within the construction industry that control performance of the Work.
- F. "Furnish": Supply and deliver to Project site, ready for unloading, unpacking, assembly, installation, and similar operations.
- G. "Install": Operations at Project site including unloading, temporarily storing, unpacking, assembling, erecting, placing, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning, and similar operations.
- H. "Provide": Furnish and install, complete and ready for the intended use.
- I. "Project Site": Space available for performing construction activities. The extent of Project site is shown on Drawings and may or may not be identical with the description of the land on which Project is to be built.
- J. "Owner": When applicable to providing direction during the project as it directly relates to activities which impact schedule and cost, the owner shall be understood to

be the 'Owners Authorized Representative Aka CM/GC' whom is introduced as such in the established Pre-Construction meeting.

- K. "CM/GC": Construction Manager / General Contractor shall be the 'owners Representative as defined herein.

1.3 INDUSTRY STANDARDS

- A. Applicability of Standards: Unless the Contract Documents include more stringent requirements, applicable construction industry standards have the same force and effect as if bound or copied directly into the Contract Documents to the extent referenced. Such standards are made a part of the Contract Documents by reference.
- B. Publication Dates: Comply with standards in effect as of date of the Contract Documents unless otherwise indicated.
- C. Copies of Standards: Each entity engaged in construction on Project should be familiar with industry standards applicable to its construction activity. Copies of applicable standards are not bound with the Contract Documents.
 - 1. Where copies of standards are needed to perform a required construction activity, obtain copies directly from publication source.

1.4 ABBREVIATIONS AND ACRONYMS

- A. Industry Organizations: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities indicated in Thomson Gale's "Encyclopedia of Associations" or in Columbia Books' "National Trade & Professional Associations of the U.S."
- B. As contained on construction documents: Refer to abbreviations listed on drawing sheets of the construction documents, whereas they apply to each specific sheet contained therein.

END OF SECTION 014200

SECTION 015000 - TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and provisions of The Contract Sections apply to this Section.

1.2 SUMMARY

- A. This Section includes requirements for temporary utilities, support facilities, and security and protection facilities.

1.3 USE CHARGES

- A. **General: Cost or use charges for temporary facilities shall be included in the Contract Sum. Consult CM/GC for shared facility coordination**
- B. **Water Service: Water from Owner's existing water system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations.**
- C. **Electric Power Service: Electric power from Owner's existing system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations.**
 - 1. If on site conditions require; Contractor shall supplement existing building electrical system with portable generators as required to pursue the Work. Such generators and fuel shall be provided at no additional cost to Owner.

1.4 QUALITY ASSURANCE

- A. Electric Service: Comply with all applicable standards and regulations for temporary electric service.
- B. PRODUCTS (NOT USED)

PART 2 - EXECUTION

2.1 INSTALLATION, GENERAL

- A. Locate facilities where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required by progress of the Work.
- B. Provide each facility ready for use when needed to avoid delay. Do not remove until facilities are no longer needed.

2.2 TEMPORARY UTILITY INSTALLATION

- A. **Water Service: Use of Owner's existing water service facilities will be permitted, as long as facilities are cleaned and maintained in a condition acceptable to Owners Authorized Representative. Refer to Paragraph 1.3.B. above.**
 - 1. Where installations below an outlet might be damaged by spillage or leakage, provide a drip pan of suitable size to minimize water damage. Drain accumulated water promptly from pans.
- B. **Electric Power Service: Use of Owner's existing electric power service will be permitted, as long as equipment is maintained in a condition acceptable to Owners Authorized Representative. Refer to Paragraph 1.3.C. above.**
- C. **Telephone Service: Provide temporary telephone service. A Cellular telephone is acceptable.**

2.3 SUPPORT FACILITIES INSTALLATION

- A. General: Comply with the following:
 - 1. Maintain support facilities until near Substantial Completion. Remove before Substantial Completion. Personnel remaining after Substantial Completion will be permitted to use permanent facilities, under conditions acceptable to Owners Authorized Representative.
- B. **Parking: Use designated existing parking areas for construction personnel. Coordinate such use with the Owners Authorized Representative when the facility is being used or is occupied during construction activities.**

- C. Waste Disposal Facilities: Provide waste-collection containers in sizes adequate to handle waste from construction operations. Comply with requirements of authorities having jurisdiction.
- D. Lifts and Hoists: Provide facilities necessary for hoisting materials and personnel.
 - 1. Truck cranes and similar devices used for hoisting materials are considered "tools and equipment" and not temporary facilities.

2.4 SECURITY AND PROTECTION FACILITIES INSTALLATION

- A. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction in ways and by methods that comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects. Provide measures to prevent discharge of airborne dust in accordance with requirements of applicable jurisdictions.
- B. Barricades, Warning Signs, and Lights: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades, including warning signs and lighting.
- C. Temporary Protectives: Provide temporary Protective measures for protection of construction, existing, in progress and completed, from exposure, water from any source, foul weather, other construction operations, and similar activities.
- D. Temporary Fire Protection: Install and maintain temporary fire-protection facilities of types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 241.
- E. Dewatering Facilities and Drains: Comply with requirements of authorities having jurisdiction. Maintain Project site, excavations, and construction free of water.
 - 1. Dispose of rainwater in a lawful manner that will not result in flooding Project or adjoining properties nor endanger permanent Work or temporary facilities.
- F. Stormwater Control: Comply with authorities having jurisdiction. Provide barriers in and around excavations and subgrade construction to prevent flooding by runoff of stormwater from heavy rains.
- G. Tree and plant Protection: Protect trees and root systems from damage, flooding, and erosion.

2.5 PROTECTION OF BUILDING OCCUPANTS AND VISITORS

- A. Contractor shall provide all protections, barricades, warning devices, etc. as necessary to protect building occupants and visitors.
- B. Contractor shall remove tools, cords, construction materials, debris, etc. from occupant and visitor accessible work areas at the end of each work period.
- C. Contractor shall not leave work areas, tools, equipment, etc. unsupervised at any time.

2.6 OPERATION, TERMINATION, AND REMOVAL

- A. Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse, limit availability of temporary facilities to essential and intended uses.
- B. Maintenance: Maintain facilities in good operating condition until removal.
- C. Termination and Removal: Remove each temporary facility when need for its service has ended, or no later than Substantial Completion. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.
 - 1. Materials and facilities that constitute temporary facilities are property of Contractor. Consider inserting specific removal requirements, as illustrated in first subparagraph below.
 - 2. At Substantial Completion, clean and renovate permanent facilities used during construction period. Comply with final cleaning requirements specified in Division 01 Section "Closeout Procedures."

END OF SECTION 015000

SECTION 016000 - PRODUCT REQUIREMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the contract apply to this Section.

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements for selection of products for use in Project; product delivery, storage, and handling; manufacturers' standard warranties on products; special warranties; and product substitutions.
- B. Contractor shall incorporate into the Work only those products specified, indicated as basis-of-design products, those products approved in addenda, or as approved after award of Contract under conditions set forth in Paragraphs 1.4 and 2.2 below.

1.3 DEFINITIONS

- A. Products: Items purchased for incorporating into the Work, whether purchased for Project or taken from previously purchased stock. The term "product" includes the terms "material," "equipment," "system," and terms of similar intent.
 - 1. Named Products: Items identified by manufacturer's product name, including make or model number or other designation shown or listed in manufacturer's published product literature, that is current as of date of the Contract Documents.
 - 2. New Products: Items that have not previously been incorporated into another project or facility, except that products consisting of recycled-content materials are allowed, unless explicitly stated otherwise. Products salvaged or recycled from other projects are not considered new products.
 - 3. Comparable Product: Product that is demonstrated and approved through submittal process, or where indicated as a product substitution, to have the indicated qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics that equal or exceed those of specified product.

- B. Substitutions: Changes in products, materials, equipment, and methods of construction from those required by the Contract Documents and proposed by Contractor.
- C. Basis-of-Design Product Specification: Where a specific manufacturer's product is named and accompanied by the words "basis of design," including make or model number or other designation, to establish the significant qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics.

1.4 SUBMITTALS

- A. Substitution Requests: Submit Digital PDF's of each request for consideration. Identify product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.
 - 1. Documentation: Show compliance with requirements for substitutions and the following, as applicable:
 - a. Statement indicating why specified material or product cannot be provided.
 - b. Coordination information, including a list of changes or modifications needed to other parts of the Work and to construction performed by Owner and separate contractors that will be necessary to accommodate proposed substitution.
 - c. Detailed comparison of significant qualities of proposed substitution with those of the Work specified. Significant qualities may include attributes such as performance, weight, size, durability, visual effect, and specific features and requirements indicated.
 - d. Product Data, including drawings and descriptions of products and fabrication and installation procedures.
 - e. Samples, where applicable or requested.
 - f. List of similar installations for completed projects with project names and addresses and names and addresses of architects and Owners Authorized Representative.
 - g. Material test reports from a qualified testing agency indicating and interpreting test results for compliance with requirements indicated.
 - h. Research/evaluation reports evidencing compliance with building code in effect for Project, from a model code organization acceptable to authorities having jurisdiction.
 - i. Detailed comparison of Contractor's Construction Schedule using proposed substitution with products specified for the Work, including effect on the overall Contract Time. If specified product or method of construction

cannot be provided within the Contract Time, include letter from manufacturer, on manufacturer's letterhead, stating lack of availability or delays in delivery.

- j. Cost information, including a proposal of change, if any, in the Contract Sum.
- k. Contractor's certification that proposed substitution complies with requirements in the Contract Documents and is appropriate for applications indicated.
- l. Contractor's waiver of rights to additional payment or time that may subsequently become necessary because of failure of proposed substitution to produce indicated results.

2. Architect's Action: If necessary, Architect will request additional information or documentation for evaluation within 10 days of receipt of a request for substitution. Architect will notify Contractor of acceptance or rejection of proposed substitution within 15 days of receipt of request, or 10 days of receipt of additional information or documentation, whichever is later.

- a. Form of Acceptance: Change Order.
- b. Use product specified if Architect cannot make a decision on use of a proposed substitution within time allocated.

1.5 QUALITY ASSURANCE

- A. Compatibility of Options: If Contractor is given option of selecting between two or more products for use on Project, product selected shall be compatible with products previously selected, even if previously selected products were also options.
 - 1. Contractor is responsible for providing products and construction methods compatible with all other products and construction methods of other contractors.

1.6 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, and handle products using means and methods that will prevent damage, deterioration, and loss, including theft. Comply with manufacturer's written instructions.
- B. Delivery and Handling:
 - 1. Schedule delivery to minimize long-term storage at Project site and to prevent overcrowding of construction spaces.

2. Coordinate delivery with installation time to ensure minimum holding time for items that are flammable, hazardous, easily damaged, or sensitive to deterioration, theft, and other losses.
3. Deliver products to Project site in an undamaged condition in manufacturer's original sealed container or other packaging system, complete with labels and instructions for handling, storing, unpacking, protecting, and installing.
4. Inspect products on delivery to ensure compliance with the Contract Documents and to ensure that products are undamaged and properly protected.

C. Storage:

1. Store products to allow for inspection and measurement of quantity or counting of units.
2. Store materials in a manner that will not endanger Project structure.
3. Store products that are subject to damage by the elements, under cover in a weathertight enclosure above ground, with ventilation adequate to prevent condensation.
4. Store cementitious products and materials on elevated platforms.
5. Store foam plastic from exposure to sunlight, except to extent necessary for period of installation and concealment.
6. Comply with product manufacturer's written instructions for temperature, humidity, ventilation, and weather-protection requirements for storage.
7. Protect stored products from damage and liquids from freezing.
8. Provide a secure location and enclosure at Project site for storage of materials and equipment by contractor's construction forces. Coordinate location with Owners Authorized Representative.

1.7 PRODUCT WARRANTIES

- A. Warranties specified in other Sections shall be in addition to, and run concurrent with, other warranties required by the Contract Documents. Manufacturer's disclaimers and limitations on product warranties do not relieve Contractor of obligations under requirements of the Contract Documents.
1. Manufacturer's Warranty: Preprinted written warranty published by individual manufacturer for a particular product and specifically endorsed by manufacturer to Owner.
 2. Special Warranty: Written warranty required by or incorporated into the Contract Documents, either to extend time limit provided by manufacturer's warranty or to provide more rights for Owner.
- B. Special Warranties: Prepare a written document that contains appropriate terms and identification, ready for execution. Submit a draft for approval before final execution.

1. Manufacturer's Standard Form: Modified to include Project-specific information and properly executed.
 2. Specified Form: When specified forms are included with the Specifications, prepare a written document using appropriate form properly executed.
 3. Refer to Divisions 02 through 49 Sections for specific content requirements and particular requirements for submitting special warranties.
- C. Submittal Time: Comply with requirements in Division 01 Section "Closeout Procedures."

PART 2 - PRODUCTS

2.1 PRODUCT SELECTION PROCEDURES

- A. General Product Requirements: Provide products that comply with the Contract Documents, that are undamaged and, unless otherwise indicated, that are new at time of installation.
1. Provide products complete with accessories, trim, finish, fasteners, and other items needed for a complete installation and indicated use and effect.
 2. Standard Products: If available, and unless custom products or nonstandard options are specified, provide standard products of types that have been produced and used successfully in similar situations on other projects.
 3. Owner reserves the right to limit selection to products with warranties not in conflict with requirements of the Contract Documents.
 4. Where products are accompanied by the term "as selected," Architect will make selection.
 5. Where products are accompanied by the term "match sample," sample to be matched is Architect's.
 6. Descriptive, performance, and reference standard requirements in the Specifications establish "salient characteristics" of products.
 7. Or Equal: Where products are specified by name and accompanied by the term "or equal" or "or approved equal" or "or approved," comply with provisions in Part 2 "Comparable Products" Article to obtain approval for use of an unnamed product.
- B. Product Selection Procedures:
1. Product: Where Specifications name a single product and manufacturer, provide the named product that complies with requirements.
 2. Manufacturer/Source: Where Specifications name a single manufacturer or source, provide a product by the named manufacturer or source that complies with requirements.

3. Products: Where Specifications include a list of names of both products and manufacturers, provide one of the products listed that complies with requirements.
4. Manufacturers: Where Specifications include a list of manufacturers' names, provide a product by one of the manufacturers listed that complies with requirements.
5. Available Products: Where Specifications include a list of names of both products and manufacturers, provide one of the products listed, or an unnamed product, that complies with requirements. Comply with provisions in Part 2 "Comparable Products" Article for consideration of an unnamed product.
6. Available Manufacturers: Where Specifications include a list of manufacturers, provide a product by one of the manufacturers listed, or an unnamed manufacturer, that complies with requirements. Comply with provisions in Part 2 "Comparable Products" Article for consideration of an unnamed product.
7. Product Options: Where Specifications indicate that sizes, profiles, and dimensional requirements on Drawings are based on a specific product or system, provide the specified product or system. Comply with provisions in Part 2 "Product Substitutions" Article for consideration of an unnamed product or system.
8. Basis-of-Design Product: Where Specifications name a product, provide the specified product. Drawings and Specifications indicate sizes, profiles, dimensions, and other characteristics that are based on the product named. Products by other manufacturers are subject to approval by way of a substitution request submitted to the Architect prior to issuance of the defined legal day for the last addendum.
9. Visual Matching Specification: Where Specifications require matching an established Sample, select a product that complies with requirements and matches Architect's sample. Architect's decision will be final on whether a proposed product matches.
 - a. If no product available within specified category matches and complies with other specified requirements, comply with provisions in Part 2 "Product Substitutions" Article for proposal of product.
10. Visual Selection Specification: Where Specifications include the phrase "as selected from manufacturer's colors, patterns, textures" or a similar phrase, select a product that complies with other specified requirements.
 - a. Standard Range: Where Specifications include the phrase "standard range of colors, patterns, textures" or similar phrase, Architect will select color, pattern, density, or texture from manufacturer's product line that does not include premium items.
 - b. Full Range: Where Specifications include the phrase "full range of colors, patterns, textures" or similar phrase, Architect will select color, pattern,

density, or texture from manufacturer's product line that includes both standard and premium items.

2.2 PRODUCT SUBSTITUTIONS

A. Timing: Following award of Contract, Architect will consider requests for substitution for products specified, or approved by addendum under any or all of the following conditions:

1. The specified product cannot be provided within the Contract Time. The request will not be considered if the product cannot be provided as a result of the Contractor's failure to pursue the Work promptly or coordinate activities properly.
2. The specified product cannot receive necessary approvals by governing authorities and the requested substitution can be approved.
3. A substantial advantage is offered the Owner, in terms of cost, time, energy conservation or other considerations of merit, after deducting offsetting responsibilities the Owner may be required to bear. Additional responsibilities for the Owner may include additional compensation to the Architect for redesign and evaluation services, increased cost of other construction by the Owners Authorized Representative or separate Contractors, and similar considerations.
4. The specified product cannot be provided in a manner that is compatible with other materials, or cannot be properly coordinated, warranted, or insured, and where the Contractor certifies that the substitution will overcome the deficiency.

B. By making a request for substitution, contractor warrants that:

1. Requested substitution does not require extensive revisions to the Contract Documents.
2. Requested substitution is consistent with the Contract Documents and will produce indicated results.
3. Substitution request is fully documented and properly submitted.
4. Requested substitution will not adversely affect Contractor's Construction Schedule.
5. Requested substitution has received necessary approvals of authorities having jurisdiction.
6. Requested substitution is compatible with other portions of the Work.
7. Requested substitution has been coordinated with other portions of the Work.
8. Requested substitution provides specified warranty.
9. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.

10. If reference to a special warranty form was added where a single warranty must cover work by several contractors, insert form here and delete "Not Used" above.

END OF SECTION 016000

SECTION 017300 - EXECUTION

PART 1 - GENERAL

1.1 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.

1.2 SUMMARY

- A. This Section includes general procedural requirements governing execution of the Work including, but not limited to, the following:
 - 1. Construction layout.
 - 2. General installation of products.
 - 3. Progress cleaning.
 - 4. Protection of installed construction.
 - 5. Correction of the Work.

1.3 SUBMITTALS

- A. Landfill Receipts: Submit copy of receipts issued by a landfill facility, licensed to accept hazardous materials, for hazardous waste disposal, if any.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Existing Conditions: The existence and location of site improvements, utilities, and other construction indicated as existing are not guaranteed. Before beginning work, investigate and verify the existing construction affecting the Work.
- B. Acceptance of Conditions: Examine substrates, areas, and conditions, with Installer or Applicator present where indicated, for compliance with requirements for installation tolerances and other conditions affecting performance. Record observations.

1. Written Report: Where a written report listing conditions detrimental to performance of the Work is required by other Sections, include the following:
 - a. Description of the Work.
 - b. List of detrimental conditions, including substrates.
 - c. List of unacceptable installation tolerances.
 - d. Recommended corrections.
2. Examine walls, floors, and roofs for suitable conditions where products and systems are to be installed.
3. Proceed with installation only after unsatisfactory conditions have been corrected. Proceeding with the Work indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Field Measurements: Take field measurements as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
- B. Space Requirements: Verify space requirements and dimensions of items shown diagrammatically on Drawings.
- C. Review of Contract Documents and Field Conditions: Immediately on discovery of the need for clarification of the Contract Documents, submit a request for information to Architect. Include a detailed description of problem encountered, together with recommendations for changing the Contract Documents.

3.3 INSTALLATION

- A. General: Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated.
 1. Make vertical work plumb and make horizontal work level.
 2. Where space is limited, install components to maximize space available for maintenance and ease of removal for replacement.
- B. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated or as indicated on Drawings or as specified, whichever is the more stringent requirement.

- C. Install products at the time and under conditions that will ensure the best possible results. Maintain conditions required for product performance until Substantial Completion.
- D. Conduct construction operations so no part of the Work is subjected to damaging operations or loading in excess of that expected during normal conditions of occupancy.
- E. Tools and Equipment: Do not use tools or equipment that produce harmful noise levels.
- F. Anchors and Fasteners: Provide anchors and fasteners as required to anchor each component securely in place, accurately located and aligned with other portions of the Work.
 - 1. Allow for building movement, including thermal expansion and contraction.
- G. Joints: Make joints of uniform width. Where joint locations in exposed work are not indicated, arrange joints for the best visual effect. Fit exposed connections together to form hairline joints.
- H. Hazardous Materials: Use products, cleaners, and installation materials that are not considered hazardous.

3.4 PROGRESS CLEANING

- A. General: Clean Project site and work areas daily, including common areas. Coordinate progress cleaning for joint-use areas where more than one installer has worked. Enforce requirements strictly. Dispose of materials lawfully.
 - 1. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.
 - 2. Do not hold materials more than 7 days during normal weather or 3 days if the temperature is expected to rise above 80 deg F (27 deg C).
 - 3. Containerize hazardous and unsanitary waste materials separately from other waste. Mark containers appropriately and dispose of legally, according to regulations.
- B. Site: Maintain Project site free of waste materials and debris.
- C. Work Areas: Clean areas where work is in progress to the level of cleanliness necessary for proper execution of the Work.
 - 1. Remove liquid spills promptly.

- 2. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire work area, as appropriate.
- D. Installed Work: Keep installed work clean. Clean installed surfaces according to written instructions of manufacturer or fabricator of product installed, using only cleaning materials specifically recommended. If specific cleaning materials are not recommended, use cleaning materials that are not hazardous to health or property and that will not damage exposed surfaces.
- E. Concealed Spaces: Remove debris from concealed spaces before enclosing the space.
- F. Exposed Surfaces in Finished Areas: Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.
- G. Waste Disposal: Burying or burning waste materials on-site shall not be permitted. Washing waste materials down sewers or into waterways shall not be permitted.
- H. During handling and installation, clean and protect construction in progress and adjoining materials already in place. Apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion.
- I. Clean and provide maintenance on completed construction as frequently as necessary through the remainder of the construction period. Adjust and lubricate operable components to ensure operability without damaging effects.
- J. Limiting Exposures: Supervise construction operations to assure that no part of the construction completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious exposure during the construction period.

3.5 PROTECTION OF INSTALLED CONSTRUCTION

- A. Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at time of Substantial Completion.

3.6 CORRECTION OF THE WORK

- A. Repair or remove and replace defective construction. Restore damaged substrates and finishes. Comply with requirements in Division 01 Section "Cutting and Patching."
 - 1. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment.
- B. Restore permanent facilities used during construction to their specified condition.

- C. Remove and replace damaged surfaces that are exposed to view if surfaces cannot be repaired without visible evidence of repair.
- D. Repair components that do not operate properly. Remove and replace operating components that cannot be repaired.

3.7 PROGRESS STAGING AND TOOL COLLECTION

- A. **General: Collect, gather and collect all tools at days end.**

END OF SECTION 017300

SECTION 017329 - CUTTING AND PATCHING

PART 1 - GENERAL

1.1 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.

1.2 SUMMARY

- A. This Section includes procedural requirements for cutting and patching.

1.3 DEFINITIONS

- A. Cutting: Removal of in-place construction necessary to permit installation or performance of other Work.
- B. Patching: Fitting and repair work required to restore surfaces to original conditions after installation of other Work.

1.4 SUBMITTALS

- A. Cutting and Patching Proposal: Submit a proposal describing procedures at least 5 days before the time cutting and patching will be performed, requesting approval to proceed. Include the following information:
 - 1. Extent: Describe cutting and patching, show how they will be performed, and indicate why they cannot be avoided.
 - 2. Changes to In-Place Construction: Describe anticipated results. Include changes to structural elements and operating components as well as changes in building's appearance and other significant visual elements.
 - 3. Products: List products to be used and firms or entities that will perform the Work.
 - 4. Dates: Indicate when cutting and patching will be performed.
 - 5. Utility Services and Mechanical/Electrical Systems: List services/systems that cutting and patching procedures will disturb or affect. List services/systems that will be relocated and those that will be temporarily out of service. Indicate how long services/systems will be disrupted.

6. Structural Elements: Where cutting and patching involve adding reinforcement to structural elements, submit details and engineering calculations showing integration of reinforcement with original structure.
7. Architect's Approval: Obtain approval of cutting and patching proposal before cutting and patching. Approval does not waive right to later require removal and replacement of unsatisfactory work.

1.5 QUALITY ASSURANCE

- A. Structural Elements: Do not cut and patch structural elements in a manner that could change their load-carrying capacity or load-deflection ratio.
- B. Operational Elements: Do not cut and patch operating elements and related components in a manner that results in reducing their capacity to perform as intended or that results in increased maintenance or decreased operational life or safety.
- C. Miscellaneous Elements: Do not cut and patch miscellaneous elements or related components in a manner that could change their load-carrying capacity, that results in reducing their capacity to perform as intended, or that results in increased maintenance or decreased operational life or safety.
- D. Visual Requirements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch construction exposed on the exterior or in occupied spaces in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.
- E. Cutting and Patching Conference: Before proceeding, meet at Project site with parties involved in cutting and patching, including mechanical and electrical trades. Review areas of potential interference and conflict. Coordinate procedures and resolve potential conflicts before proceeding.

1.6 WARRANTY

- A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during cutting and patching operations, by methods and with materials so as not to void existing warranties, if any.

1.7 MATERIALS

- A. General: Comply with requirements specified in other Sections.

- B. In-Place Materials: Use materials identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent possible.
 - 1. If identical materials are unavailable or cannot be used, use materials that, when installed, will match the visual and functional performance of in-place materials.

PART 2 - EXECUTION

2.1 EXAMINATION

- A. Examine surfaces to be cut and patched and conditions under which cutting and patching are to be performed.
 - 1. Compatibility: Before patching, verify compatibility with and suitability of substrates, including compatibility with in-place finishes or primers.
 - 2. Proceed with installation only after unsafe or unsatisfactory conditions have been corrected.

2.2 PREPARATION

- A. Temporary Support: Provide temporary support of Work to be cut.
- B. Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.
- C. Adjoining Areas: Avoid interference with use of adjoining areas or interruption of free passage to adjoining areas.
- D. Existing Utility Services and Mechanical/Electrical Systems: Where existing services/systems are required to be removed, relocated, or abandoned, bypass such services/systems before cutting to minimize interruption to occupied areas.

2.3 PERFORMANCE

- A. General: Employ skilled workers to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time, and complete without delay.
 - 1. Cut in-place construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition.

- B. Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original Installer; comply with original Installer's written recommendations.
1. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots as small as possible, neatly to size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
 2. Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces.
 3. Concrete and Masonry: Cut using a cutting machine, such as an abrasive saw or a diamond-core drill.
 4. Proceed with patching after construction operations requiring cutting are complete.
- C. Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations following performance of other Work. Patch with durable seams that are as invisible as possible. Provide materials and comply with installation requirements specified in other Sections.
1. Inspection: Where feasible, test and inspect patched areas after completion to demonstrate integrity of installation.
 2. Exposed Finishes: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will eliminate evidence of patching and refinishing.
 - a. Clean piping, conduit, and similar features before applying paint or other finishing materials.
 - b. Restore damaged pipe covering to its original condition.
 - c. Where patching occurs in a painted surface, apply primer and intermediate paint coats over the patch and apply final paint coat over entire unbroken surface containing the patch. Provide additional coats until patch blends with adjacent surfaces.
- D. Cleaning: Clean areas and spaces where cutting and patching are performed. Completely remove paint, mortar, oils, putty, and similar materials.

END OF SECTION 017329

SECTION 017836 - WARRANTIES

PART 1 - GENERAL

1.1. RELATED DOCUMENTS

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

1.2. SUMMARY

- A. This Section specifies general administrative and procedural requirements for warranties required by the Contract Documents, including manufacturer's standard warranties on products and special warranties.
 - 1. Specific requirements for warranties for the Work and products and installation that are specified to be warranted are included in the individual Sections of Divisions-2 through -28.
 - 2. Certifications and other commitments and agreements for continuing services to Owner are specified elsewhere in the Contract Documents.
- B. Disclaimers and Limitations: Manufacturer's disclaimers and limitations on product warranties do not relieve the Contractor of the warranty on the Work that incorporates the products, nor does it relieve suppliers, manufacturers, and subcontractors required to countersign special warranties with the Contractor.
- C. The term "warranty" in this Specifications Section shall also mean "guarantee", which term "guarantee" is used in other Specifications Sections. All conditions specified herein for "warranties" shall also apply to "guarantees".

1.3. DEFINITIONS

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

1.4. WARRANTY REQUIREMENTS

- A. Related Damages and Losses: When correcting warranted Work that has failed, the Contractor shall, at no additional cost to the Owner, remove and replace other Work that has been damaged as a result of such failure, or that must be removed and replaced to provide access for correction of warranted Work.
- B. Reinstatement of Warranty: When Work covered by a warranty has failed and been corrected by replacement or rebuilding; reinstate the warranty by written endorsement. The reinstated warranty shall be equal to the original warranty with an equitable adjustment for depreciation. Such reinstatement shall also apply to warranties for items of Work required to be removed, replaced, and / or altered to correct failed warranted Work.
- C. Replacement Cost: Upon determination that Work covered by a warranty has failed, replace or rebuild the Work to an acceptable condition complying with requirements of Contract Documents. The Contractor is responsible all costs of replacing and / or rebuilding defective and affected Work regardless of whether the Owner has benefited from use of the Work through a portion of its anticipated useful service life.
- D. Owner's Recourse: Written warranties made to the Owner are in addition to implied warranties, and shall not limit the duties, obligations, right and remedies otherwise available under the law, nor shall warranty periods be interpreted as limitations on time in which the Owner can enforce such other duties, obligations, rights, or remedies.
 - 1. Rejection of Warranties: The Owner reserves the right to reject warranties and to limit selections to products with warranties not in conflict with requirements of the Contract Documents.
- E. The Owner reserves the right to refuse to accept Work for the Project where a special warranty, certification, or similar commitment is required on such Work or part of the Work, until evidence is presented that entities required to countersign such commitments are willing to do so.

1.5. SUBMITTALS

- A. Submit written warranties to the Architect prior to the date certified for Substantial Completion. The commencement date for all warranties shall be the date of final Substantial Completion for the Work.
 - 1. The Contractor's use of items covered by required warranties shall not change

the date of commencement of such warranties. Should additional costs be accrued related to the Contractor's use of warranted items prior to the date of final Substantial Completion, such costs shall be paid to the item manufacturer by the Contractor.

- B. When a special warranty is required to be executed by the Contractor, or the Contractor and a subcontractor, supplier, or manufacturer, prepare a written document that contains appropriate terms and identification, ready for execution by the required parties unless a form for the special warranty is provided. Submit a draft to the Owner through the Architect for approval prior to final execution.
 - 1. Refer to individual Sections of Divisions-2 through -28 for specific content requirements, and particular requirements for submittal of special warranties.

PART 2 - PRODUCTS (Not applicable.)

PART 3 - EXECUTION (Not applicable.)

END OF SECTION 017836

SECTION 079200 - JOINT SEALANTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes joint sealants for applications indicated on the Drawings that are not specifically included under any other specifications section.

1.3 PERFORMANCE REQUIREMENTS

- A. Provide elastomeric joint sealants that establish and maintain watertight and airtight continuous joint seals without staining or deteriorating joint substrates.
- B. Provide joint sealants for interior applications that establish and maintain airtight and water-resistant continuous joint seals without staining or deteriorating joint substrates.

1.4 SUBMITTALS

- A. Product Data: For each joint-sealant product indicated.
- B. Samples for Selection: Manufacturer's color charts consisting of strips of cured sealants showing the full range of colors available for each product exposed to view.

1.5 QUALITY ASSURANCE

- A. Source Limitations: Obtain each type of joint sealant through one source from a single manufacturer.

1.6 PROJECT CONDITIONS

- A. Do not proceed with installation of joint sealants under the following conditions:
 - 1. When ambient and substrate temperature conditions are outside limits permitted by joint-sealant manufacturer or are below 40 deg. F (5 deg. C).

2. When joint substrates are wet.
3. Where joint widths are less than those allowed by joint-sealant manufacturer for applications indicated.
4. Contaminants capable of interfering with adhesion have not yet been removed from joint substrates.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Products: Subject to compliance with requirements, provide one of the products listed in other Part 2 articles.
- B. Products by other manufacturers are subject to Architect's approval prior to bidding.

2.2 MATERIALS, GENERAL

- A. Compatibility: Provide joint sealants, backings, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by sealant manufacturer, based on testing and field experience.
- B. Colors of Exposed Joint Sealants: As selected by Architect from manufacturer's full range.

2.3 ELASTOMERIC JOINT SEALANTS

- A. Elastomeric Sealants: Comply with ASTM C 920 and other requirements indicated for each liquid-applied chemically curing sealant specified, including those referencing ASTM C 920 classifications for type, grade, class, and uses related to exposure and joint substrates.
- B. Stain-Test-Response Characteristics: Where elastomeric sealants are specified to be non-staining to porous substrates, provide products that have undergone testing according to ASTM C 1248 and have not stained porous joint substrates indicated for Project.
- C. Suitability for Immersion in Liquids. Where elastomeric sealants are indicated for Use I for joints that will be continuously immersed in liquids, provide products that have undergone testing according to ASTM C 1247 and qualify for the length of exposure indicated by reference to ASTM C 920 for Class 1 or 2. Liquid used for testing sealants is deionized water, unless otherwise indicated.

- D. Suitability for Contact with Food: Where elastomeric sealants are indicated for joints that will come in repeated contact with food, provide products that comply with Code of Federal Regulations (CFR) 21 CFR 177.2600.
- E. Single-Component Neutral-Curing Silicone Sealant: Use this sealant for joints subject to movement at interior and exterior locations for metals, glass, and ceramic type materials
 - 1. Products:
 - a. Dow Corning Corporation; 790.
 - b. Tremco; Spectrem 1
 - c. GE Silicones; SilPruf SCS2000.
 - d. Pecora Corporation; 864.
- F. Single-Component Mildew-Resistant Acid-Curing Silicone Sealant: Use this sealant for joints in food service areas, toilet rooms, locker rooms and interior wet areas.
 - 1. Products:
 - a. Dow Corning Corporation; 786 Mildew Resistant.
 - b. GE Silicones; Sanitary SCS1700.
 - c. Tremco; Tremsil 200.
- G. Single-Component Nonsag Urethane Sealant: Use this sealant for joints subject to movement are building exterior at concrete and masonry, including expansion / control joints in walls.
 - 1. Products:
 - a. Sika Corporation, Inc.; Sikaflex - 1a.
 - b. Sonneborn, Division of ChemRex Inc.; NP 1.
 - c. Tremco; Vulkem 116.

2.4 SOLVENT-RELEASE JOINT SEALANTS

- A. Butyl-Rubber-Based Solvent-Release Joint Sealant: Comply with ASTM C 1085. Use this sealant in connection with exterior sheet metal work.
 - 1. Products:
 - a. Bostik Findley; Bostik 300.
 - b. Fuller, H. B. Company; SC-0296.
 - c. Fuller, H. B. Company; SC-0288.

- d. Pecora Corporation; BC-158.
- e. Polymeric Systems Inc.; PSI-301
- f. Sonneborn, Division of ChemRex Inc.; Sonneborn Multi-Purpose Sealant.
- g. Tremco; Tremco Butyl Sealant.

2.5 LATEX JOINT SEALANTS

- A. Latex Sealant: Comply with ASTM C 834, Type P, Grade NF. Use this sealant for general interior caulking and at drywall and wood construction to be painted.
- B. Products:
 - 1. Pecora Corporation; AC-20+.
 - 2. Sonneborn, Division of ChemRex Inc.; Sonolac.
 - 3. Tremco; Tremflex 834.

2.6 ACOUSTICAL JOINT SEALANTS

- A. Acoustical Sealant for Exposed and Concealed Joints: Manufacturer's standard non-sag, paintable, non-staining latex sealant complying with ASTM C 834 and the following:
 - 1. Product effectively reduces airborne sound transmission through perimeter joints and openings in building construction as demonstrated by testing representative assemblies according to ASTM E 90.
 - 2. Products:
 - a. Pecora Corporation; AC-20 FTR Acoustical and Insulation Sealant.
 - b. United States Gypsum Co.; SHEETROCK Acoustical Sealant.

2.7 JOINT-SEALANT BACKING

- A. General: Provide sealant backings of material and type that are non-staining; are compatible with joint substrates, sealants, primers, and other joint fillers; and are approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.
- B. Cylindrical Sealant Backings: ASTM C 1330, Type C (closed-cell material with a surface skin), O (open-cell material), B (bicellular material with a surface skin) or any of the preceding types, as approved in writing by joint-sealant manufacturer for joint application indicated, and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance:
- C. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer for preventing sealant from adhering to rigid, inflexible joint-filler materials

or joint surfaces at back of joint where such adhesion would result in sealant failure. Provide self-adhesive tape where applicable.

2.8 MISCELLANEOUS MATERIALS

- A. Primer: Material recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.
- B. Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to manufacturers of sealants and sealant backing materials, free of oily residues or other substances capable of staining or harming joint substrates and adjacent nonporous surfaces in any way, and formulated to promote optimum adhesion of sealants to joint substrates.
- C. Masking Tape: Non-staining, nonabsorbent material compatible with joint sealants and surfaces adjacent to joints.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine joints indicated to receive joint sealants, with Installer present, for compliance with requirements for joint configuration, installation tolerances, and other conditions affecting joint-sealant performance.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Surface Cleaning of Joints: Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions and the following requirements:
 - 1. Remove all foreign material from joint substrates that could interfere with adhesion of joint sealant, including dust, paints (except for permanent, protective coatings tested and approved for sealant adhesion and compatibility by sealant manufacturer), old joint sealants, oil, grease, waterproofing, water repellents, water, surface dirt, and frost.
 - 2. Clean porous joint substrate surfaces by brushing, grinding, blast cleaning, mechanical abrading, or a combination of these methods to produce a clean, sound substrate capable of developing optimum bond with joint sealants. Remove loose

particles remaining after cleaning operations above by vacuuming or blowing out joints with oil-free compressed air.

3. Remove laitance and form-release agents from concrete.
4. Clean nonporous surfaces with chemical cleaners or other means that do not stain, harm substrates, or leave residues capable of interfering with adhesion of joint sealants.:

- B. Joint Priming: Prime joint substrates, where recommended in writing by joint-sealant manufacturer, based on preconstruction joint-sealant-substrate tests or prior experience. Apply primer to comply with joint-sealant manufacturer's written instructions. Confine primers to areas of joint-sealant bond; do not allow spillage or migration onto adjoining surfaces.
- C. Masking Tape: Use masking tape where required to prevent contact of sealant with adjoining surfaces that otherwise would be permanently stained or damaged by such contact or by cleaning methods required to remove sealant smears. Remove tape immediately after tooling without disturbing joint seal.

3.3 INSTALLATION OF JOINT SEALANTS

- A. General: Comply with joint-sealant manufacturer's written installation instructions for products and applications indicated, unless more stringent requirements apply.
- B. Sealant Installation Standard: Comply with recommendations in ASTM C 1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.
- C. Acoustical Sealant Application Standard: Comply with recommendations in ASTM C 919 for use of joint sealants in acoustical applications as applicable to materials, applications, and conditions indicated.
- D. Install sealant backings of type indicated to support sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.
 1. Do not leave gaps between ends of sealant backings.
 2. Do not stretch, twist, puncture, or tear sealant backings.
 3. Remove absorbent sealant backings that have become wet before sealant application and replace them with dry materials.
- E. Install bond-breaker tape behind sealants where sealant backings are not used between sealants and backs of joints.
- F. Install sealants using proven techniques that comply with the following and at the same time backings are installed:

1. Place sealants so they directly contact and fully wet joint substrates.
2. Completely fill recesses in each joint configuration.
3. Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.

G. Tooling of Nonsag Sealants: Immediately after sealant application and before skinning or curing begins, tool sealants according to requirements specified below to form smooth, uniform beads of configuration indicated; to eliminate air pockets; and to ensure contact and adhesion of sealant with sides of joint.

1. Remove excess sealant from surfaces adjacent to joints.
2. Use tooling agents that are approved in writing by sealant manufacturer and that do not discolor sealants or adjacent surfaces.
3. Provide concave joint configuration per Figure 5A in ASTM C 1193, unless otherwise indicated.

3.4 CLEANING

A. Clean off excess sealant or sealant smears adjacent to joints as the Work progresses by methods and with cleaning materials approved in writing by manufacturers of joint sealants and of products in which joints occur.

3.5 PROTECTION

A. Protect joint sealants during and after curing period from contact with contaminating substances and from damage resulting from construction operations or other causes so sealants are without deterioration or damage at time of Substantial Completion. If, despite such protection, damage or deterioration occurs, cut out and remove damaged or deteriorated joint sealants immediately so installations with repaired areas are indistinguishable from original work.

END OF SECTION 079200

SECTION 260100 - ELECTRICAL GENERAL PROVISIONS

PART 1 - GENERAL

1.1 CONDITIONS AND REQUIREMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- B. Provisions of this Section shall apply to all Sections of Division 26, 27, AND 28.

1.2 SCOPE OF WORK

- A. Furnish and install all materials and equipment and provide all labor required and necessary to complete the work shown on the drawings and/or specified in all Sections of Division 26, 27, AND 28 and all other work and miscellaneous items, not specifically mentioned, but reasonably inferred for a complete installation, including all accessories required for testing the system. It is the intent of the drawings and specifications that all systems be complete and ready for operation.
- B. All systems installed in the facility shall be functional and in good working order prior to owner training and use. Any system installed that is not in good working order shall be repaired or replaced to the complete satisfaction of the owner at no additional cost to the owner.

1.3 CODE COMPLIANCE

- A. All work and materials shall comply with the latest rules, codes and regulations, including, but not limited to, the following:
 - 1. Occupational Safety and Health Act Standards (OSHA)
 - 2. NFPA #70 – National Electric Code (NEC)
 - 3. ADA Standards – Americans with Disabilities Act
 - 4. ANSI/IEEE C-2 – National Electrical Safety Code
 - 5. NECA – Standard of Installation
 - 6. International Building Code
 - 7. International Fire Code
 - 8. International Energy Conservation Code
 - 9. NFPA #72 – Fire Code
 - 10. NFPA #101 – Life Safety Code
 - 11. All other applicable Federal, State and local laws and regulations.
- B. Work to be executed and inspected in accordance with local codes and ordinances. Permits, fees or charges for inspection or other services shall be paid for by the contractor. Local codes and ordinances are to be considered as minimum requirements and must be properly executed without expense to the owner; but do not relieve the contractor from work shown that exceeds minimum requirements.

1.4 CONDITIONS AT SITE

- A. Visit to site is required of all bidders prior to submission of bid. All will be held to have familiarized themselves with all discernible conditions and no extra payment will be allowed for work required because of these conditions, whether specifically mentioned or not.
- B. Lines of other service that are damaged as a result of this work shall be promptly repaired at no expense to the owner to the complete satisfaction of the owner.

1.5 DRAWINGS AND SPECIFICATIONS

- A. All drawings and all specifications shall be considered as a whole and work of this Division shown anywhere therein shall be furnished under this Division.
- B. Drawings are diagrammatic and indicate the general arrangement of equipment and wiring. Most direct routing of conduits and wiring is not assured. Exact requirements shall be governed by architectural, structural and mechanical conditions of the job. Consult all other drawings in preparation of the bid. Extra lengths of wiring or addition of pull or junction boxes, etc., necessitated by such conditions shall be included in the bid. Check all information and report any apparent discrepancies before submitting bid.
- C. Change to location, type, function, brand name, finish, etc., shall not be made without permission of owner.
- D. Some equipment is specifically designated on the drawings. It is not the intent to sole source any item unless explicitly stated. Items have been specified based upon design requirements. All bidders are encouraged to submit products for approval. Prior approval must be obtained as required by these contract documents. Bids submitted with non-approved items will be considered invalid and bid will be forfeit. Submittals received by the engineer after award of contract on non-approved equipment will not be reviewed nor will they be returned.

1.6 SAFETY AND INDEMNITY

- A. Safety: The contractor shall be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal working hours.
- B. No act, service, drawing review or construction review by the owner or owner's representative is intended to include review of the adequacy of the contractor's safety measures in, on, or near the construction site.

1.7 CONSTRUCTION OBSERVATION BY THE OWNER

- A. Prior to covering: any major portion of the materials installed under this section, notify the owner so that an observation can be made. Notification shall be made at least three (3) working days in advance of the date the items will be covered.

1.8 INSTRUCTION OF OWNER'S PERSONNEL

- A. The contractor shall conduct an on-site instructional tour of the entire project. The personnel designated by the owner shall be instructed in: operation of all electrical systems, trouble-shooting procedures, preventative maintenance procedures, uses of Operation and Maintenance manuals, and cleaning of lighting fixtures and operation of all special systems including data, cctv, access control, and fire alarm.
- B. Contractor will include in his bid 8 hours of instruction time to be held at the project location after substantial completion for instruction of owner's personnel. Coordinate time and number of owner personnel to be present and provide schedule to engineer.

1.9 PROJECT COMPLETION

- A. Upon completion of all work and operational checks on all systems, the contractor shall request that a final construction observation be performed.
- B. The owner or owner's representative shall compile a punch list of items to be completed or corrected. The contractor shall notify the owner upon completion of the items.

1.10 GUARANTEE

- A. All work under this section shall be guaranteed in writing to be free of defective work, materials, or parts for a period of one (1) year, except lamps, which shall be guaranteed for thirty (30) days after final acceptance of the work under the contract.
- B. Repair, revision or replacement of any and all defects, failure or inoperativeness shall be done by the contractor at no cost to the owner.

PART 2 - PRODUCTS

2.1 MATERIAL APPROVAL

- A. The design, manufacturer and testing of electrical equipment and materials shall conform to or exceed latest applicable NEMA, IEEE or ANSI standards.
- B. All materials must be new and UL listed. Materials that are not covered by UL testing standards shall be tested and approved by an independent testing laboratory or a governmental agency, which laboratory shall be acceptable to the owner and code enforcing agency.

2.2 SHOP DRAWINGS AND MATERIALS LIST

- A. Submit shop drawings and materials lists as specified for review. Four (4) copies of submittals shall be presented to the owner.

2.3 OPERATION AND MAINTENANCE MANUALS

- A. Submit four (4) sets of Operation and Maintenance Manuals of equipment to owner.

2.4 RECORD DRAWINGS

- A. Submit record drawings to owner.

2.5 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Deliver, store, and handle materials in a manner to prevent damage.
- B. Protect equipment from weather and dampness.

PART 3 - EXECUTION

3.1 WORKMANSHIP AND CONTRACTOR'S QUALIFICATIONS

- A. Only quality workmanship will be accepted. Haphazard or poor installation practice will be cause for rejection of work.
- B. Provide experienced foreman with a minimum of three years experience working on this type of building placed in charge of this work at all times.

3.2 COORDINATION

- A. Coordinate work with other trades to avoid conflict and to provide correct rough-in and connection for equipment furnished under trades that require electrical connections. Inform contractors of other trades of the required access to and clearances around electrical equipment to maintain serviceability and code compliance.
- B. Verify equipment dimensions and requirements with provisions specified under this Section. Check actual job conditions before fabricating work. Report necessary changes in time to prevent needless work. Changes or additions subject to additional compensation, which are made without the authorization of the owner, shall be at contractor's risk and expense.

3.3 MANUFACTURER'S INSTRUCTIONS

- A. Where the specifications call for an installation to be made in accordance with manufacturer's recommendations, a copy of such recommendations shall be included with the equipment submittal at all times be kept in the job superintendent's office and shall be available to the owner.

- B. Follow manufacturer's instructions where they cover points not specifically indicated on drawings and specifications. If they are in conflict with the drawings and specifications obtain clarification from the owner before starting work.

3.4 QUALITY ASSURANCE

- A. The contractor shall insure that all workmanship, all materials employed, all required equipment and the manner and method of installation conforms to accepted construction and engineering practices, and that each piece of equipment is in satisfactory working condition to satisfactorily perform its functional operation.
- B. Provide quality assurance tests and operational check on all components of the electrical distribution system, all lighting fixtures, and special systems.

3.5 CUTTING AND PATCHING

- A. Perform all cutting and fittings required for work of this section in rough construction of the building.
- B. All patching of finished construction of building shall be performed under the sections of specifications covering these materials.
- C. No joists, beams, girders or columns shall be cut by any contractor without obtaining written permission from the owner.

3.6 EXCAVATION AND BACKFILL

- A. Excavation: the contractor shall do all necessary excavation of whatever substances encountered for proper laying of all raceways or cables except as noted on the drawings. Excavated materials not required for fill shall be removed from the site as directed by the owner.
- B. Excavation shall be carried low enough to allow minimum coverage over raceways. Excess excavation below required level shall be backfilled at the contractor's expense with earth, sand or gravel as directed by the owner. Ground adjacent to all excavations shall be graded to prevent water running in.
- C. The contractor shall remove, by pumping or other means approved by the owner, any water accumulated in excavation.
- D. Backfilling: perform all backfilling in accordance with Division 31 – Earthwork.
- E. No backfilling shall be done until installation has been approved by the owner.

END OF SECTION 260100

SECTION 260500 – COMMON WORK RESULTS FOR ELECTRICAL

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Electrical equipment coordination and installation.
 - 2. Sleeves for raceways and cables.
 - 3. Sleeve seals.
 - 4. Common electrical installation requirements.

1.3 DEFINITIONS

- A. ATS: Acceptance Testing Specifications.
- B. EPDM: Ethylene-propylene-diene terpolymer rubber.
- C. NBR: Acrylonitrile-butadiene rubber.

1.4 QUALITY ASSURANCE

- A. Test Equipment Suitability and Calibration: Comply with NETA ATS, "Suitability of Test Equipment" and "Test Instrument Calibration."

1.5 COORDINATION

- A. Coordinate arrangement, mounting, and support of electrical equipment:
 - 1. To allow maximum possible headroom unless specific mounting heights that reduce headroom are indicated.
 - 2. To provide for ease of disconnecting the equipment with minimum interference to other installations.
 - 3. To allow right of way for piping and conduit installed at required slope.
 - 4. So connecting raceways, cables, wireways, cable trays, and busways will be clear of obstructions and of the working and access space of other equipment.

- B. Coordinate installation of required supporting devices and set sleeves in cast-in-place concrete, masonry walls, and other structural components as they are constructed.
- C. Coordinate location of access panels and doors for electrical items that are behind finished surfaces or otherwise concealed.
- D. Coordinate electrical testing of electrical, mechanical, and architectural items, so equipment and systems that are functionally interdependent are tested to demonstrate successful interoperability.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.

2.2 SLEEVES FOR RACEWAYS AND CABLES

- A. Steel Pipe Sleeves: ASTM A 53/A 53M, Type E, Grade B, Schedule 40, galvanized steel, plain ends.
- B. Cast-Iron Pipe Sleeves: Cast or fabricated "wall pipe," equivalent to ductile-iron pressure pipe, with plain ends and integral waterstop, unless otherwise indicated.
- C. Sleeves for Rectangular Openings: Galvanized sheet steel with minimum 0.138-inch thickness as indicated and of length to suit application.
- D. Coordinate sleeve selection and application with selection and application of firestopping.

2.3 SLEEVE SEALS

- A. Description: Modular sealing device, designed for field assembly, to fill annular space between sleeve and raceway or cable.
 - 1. Available Manufacturers:
 - a. Advance Products & Systems, Inc.
 - b. Calpico, Inc.

 - c. Metraflex Co.
 - d. Pipeline Seal and Insulator, Inc.

2. Sealing Elements: EPDM or NBR interlocking links shaped to fit surface of cable or conduit. Include type and number required for material and size of raceway or cable.
3. Pressure Plates: Stainless steel. Include two for each sealing element.
4. Connecting Bolts and Nuts Stainless steel of length required to secure pressure plates to sealing elements. Include one for each sealing element.

PART 3 - EXECUTION

3.1 COMMON REQUIREMENTS FOR ELECTRICAL INSTALLATION

- A. Comply with NECA 1.
- B. Measure indicated mounting heights to bottom of unit for suspended items and to center of unit for wall-mounting items.
- C. Headroom Maintenance: If mounting heights or other location criteria are not indicated, arrange and install components and equipment to provide maximum possible headroom consistent with these requirements.
- D. Equipment: Install to facilitate service, maintenance, and repair or replacement of components of both electrical equipment and other nearby installations. Connect in such a way as to facilitate future disconnecting with minimum interference with other items in the vicinity.
- E. Right of Way: Give to raceways and piping systems installed at a required slope.

3.2 SLEEVE INSTALLATION FOR ELECTRICAL PENETRATIONS

- A. Electrical penetrations occur when raceways, cables, wireways, cable trays, or busways penetrate concrete slabs, concrete or masonry walls, or fire-rated floor and wall assemblies.
- B. Coordinate sleeve selection and application with selection and application of firestopping.
- C. Concrete Slabs and Walls: Install sleeves for penetrations unless core-drilled holes or formed openings are used. Install sleeves during erection of slabs and walls.
- D. Use pipe sleeves unless penetration arrangement requires rectangular sleeved opening.
- E. Rectangular Sleeve Minimum Metal Thickness:
 1. For sleeve cross-section rectangle perimeter less than 50 inches and no side greater than 16 inches, thickness shall be 0.052 inch.
 2. For sleeve cross-section rectangle perimeter equal to, or greater than, 50 inches and 1 or more sides equal to, or greater than, 16 inches, thickness shall be 0.138 inch.
- F. Fire-Rated Assemblies: Install sleeves for penetrations of fire-rated floor and wall assemblies unless openings compatible with firestop system used are fabricated during construction of floor or wall.
- G. Cut sleeves to length for mounting flush with both surfaces of walls.

- H. Extend sleeves installed in floors 2 inches above finished floor level unless specified on plans.
- I. Size pipe sleeves to provide 1/4-inch annular clear space between sleeve and raceway or cable unless sleeve seal is to be installed or unless seismic criteria require a different clearance.
- J. Seal space outside of sleeves with grout for penetrations of concrete and masonry and with approved joint compound for gypsum board assemblies.
- K. Interior Penetrations of Non-Fire-Rated Walls and Floors: Seal annular space between sleeve and raceway or cable, using joint sealant appropriate for size, depth, and location of joint. Fire-Rated-Assembly Penetrations: Maintain indicated fire rating of walls, partitions, ceilings, and floors at raceway and cable penetrations. Install sleeves and seal raceway and cable penetration sleeves with firestop materials.
- L. Roof-Penetration Sleeves: Seal penetration of individual raceways and cables with flexible boot-type flashing units applied in coordination with roofing work.
- M. Aboveground, Exterior-Wall Penetrations: Seal penetrations using sleeves and mechanical sleeve seals. Select sleeve size to allow for 1-inch annular clear space between pipe and sleeve for installing mechanical sleeve seals.
- N. Underground, Exterior-Wall Penetrations: Install cast-iron "wall pipes" for sleeves. Size sleeves to allow for 1-inch annular clear space between raceway or cable and sleeve for installing mechanical sleeve seals.

3.3 SLEEVE-SEAL INSTALLATION

- A. Install to seal underground, exterior wall penetrations.
- B. Use type and number of sealing elements recommended by manufacturer for raceway or cable material and size. Position raceway or cable in center of sleeve. Assemble mechanical sleeve seals and install in annular space between raceway or cable and sleeve. Tighten bolts against pressure plates that cause sealing elements to expand and make watertight seal.

3.4 FIRESTOPPING

- A. Apply firestopping to electrical penetrations of fire-rated floor and wall assemblies to restore original fire-resistance rating of assembly.

3.5 FIELD QUALITY CONTROL

- A. Inspect installed sleeve and sleeve-seal installations and associated firestopping for damage and faulty work.

END OF SECTION 260500

SECTION 260519 - LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Building wires and cables rated 600 V and less.
 - 2. Connectors, splices, and terminations rated 600 V and less.
 - 3. Sleeves and sleeve seals for cables.
- B. Related Sections include the following:
 - 1. Division 27 Section "Communications Cabling" for cabling used for voice and data circuits.

1.3 DEFINITIONS

- A. EPDM: Ethylene-propylene-diene terpolymer rubber.
- B. NBR: Acrylonitrile-butadiene rubber.

1.4 SUBMITTALS

- A. Product Data: For each type of product indicated.

1.5 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- B. Comply with NFPA 70.

1.6 COORDINATION

- A. Set sleeves in cast-in-place concrete, masonry walls, and other structural components as they are constructed.

PART 2 - PRODUCTS

2.1 CONDUCTORS AND CABLES

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. American Insulated Wire Corp.; a Leviton Company.
 - 2. General Cable Corporation.
 - 3. Senator Wire & Cable Company.
 - 4. Southwire Company.
- B. Copper Conductors: Comply with NEMA WC 70.
- C. Conductor Insulation: Comply with NEMA WC 70 for Types THHN-THWN.

2.2 CONNECTORS AND SPLICES

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
- B. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. AFC Cable Systems, Inc.
 - 2. Hubbell Power Systems, Inc.
 - 3. O-Z/Gedney; EGS Electrical Group LLC.
 - 4. 3M; Electrical Products Division.
 - 5. Tyco Electronics Corp.
- C. Description: Factory-fabricated connectors and splices of size, ampacity rating, material, type, and class for application and service indicated.

2.3 SLEEVES FOR CABLES

- A. Steel Pipe Sleeves: ASTM A 53/A 53M, Type E, Grade B, Schedule 40, galvanized steel, plain ends.
- B. Sleeves for Rectangular Openings: Galvanized sheet steel with minimum 0.052- or 0.138-inch (1.3- or 3.5-mm) thickness as indicated and of length to suit application.

- C. Coordinate sleeve selection and application with selection and application of firestopping specified in Division 07 Section "Penetration Firestopping."

2.4 SLEEVE SEALS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
- B. Basis-of-Design Product: Subject to compliance with requirements, provide a comparable product by one of the following:
 - 1. Advance Products & Systems, Inc.
 - 2. Calpico, Inc.
 - 3. Metraflex Co.
 - 4. Pipeline Seal and Insulator, Inc.
- C. Description: Modular sealing device, designed for field assembly, to fill annular space between sleeve and cable.
 - 1. Sealing Elements: EPDM interlocking links shaped to fit surface of cable or conduit. Include type and number required for material and size of raceway or cable.
 - 2. Pressure Plates: Stainless steel. Include two for each sealing element.
 - 3. Connecting Bolts and Nuts: Stainless steel of length required to secure pressure plates to sealing elements.

PART 3 - EXECUTION

3.1 CONDUCTOR MATERIAL APPLICATIONS

- A. Feeders:

Aluminum or Copper. stranded for No. 10 AWG and smaller; stranded for No. 8 AWG and larger.
- B. Branch Circuits: Copper. stranded for No. 10 AWG and smaller; stranded for No. 8 AWG and larger.

3.2 CONDUCTOR INSULATION AND MULTICONDUCTOR CABLE APPLICATIONS AND WIRING METHODS

- A. Service Entrance: Type THHN-THWN, single conductors in raceway.
- B. Exposed Feeders: Type THHN-THWN, single conductors in raceway.
- C. Feeders Concealed in Ceilings, Walls, Partitions, and Crawlspace: Type THHN-THWN, single conductors in raceway.

- D. Feeders Concealed in Concrete, below Slabs-on-Grade, and Underground: Type THHN-THWN, single conductors in raceway.
- E. Exposed Branch Circuits, Including in Crawlspace: Type THHN-THWN, single conductors in raceway.
- F. Branch Circuits Concealed in Ceilings, Walls, and Partitions: Type THHN-THWN, single conductors in raceway or MC type cable assembly.
- G. Branch Circuits Concealed in Concrete, below Slabs-on-Grade, and Underground: Type THHN-THWN, single conductors in raceway.
- H. Branch Circuits in Cable Tray: Type THHN-THWN, single conductors in raceway.
- I. Cord Drops and Portable Appliance Connections: Type SO, hard service cord with stainless-steel, wire-mesh, strain relief device at terminations to suit application.
- J. Class 1 Control Circuits: Type THHN-THWN, in raceway.
- K. Class 2 Control Circuits: Type THHN-THWN, in raceway, or Power-limited tray cable, in cable tray.

3.3 INSTALLATION OF CONDUCTORS AND CABLES

- A. Conceal cables in conduit within finished walls, ceilings, and floors, unless otherwise indicated.
- B. Use manufacturer-approved pulling compound or lubricant where necessary; compound used must not deteriorate conductor or insulation. Do not exceed manufacturer's recommended maximum pulling tensions and sidewall pressure values.
- C. Use pulling means, including fish tape, cable, rope, and basket-weave wire/cable grips, that will not damage cables or raceway.
- D. Install exposed conduits parallel and perpendicular to surfaces of exposed structural members, and follow surface contours where possible.
- E. Support cables according to Division 26 Section "Hangers and Supports for Electrical Systems."
- F. Identify and color-code conductors and cables according to Division 26 Section "Identification for Electrical Systems."

3.4 CONNECTIONS

- A. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A and UL 486B.

- B. Make splices and taps that are compatible with conductor material and that possess equivalent or better mechanical strength and insulation ratings than unspliced conductors.
 - 1. Use oxide inhibitor in each splice and tap conductor for aluminum conductors.
- C. Wiring at Outlets: Install conductor at each outlet, with at least 12 inches (300 mm) of slack.

3.5 SLEEVE INSTALLATION FOR ELECTRICAL PENETRATIONS

- A. Coordinate sleeve selection and application with selection and application of firestopping specified in Division 07 Section "Penetration Firestopping."
- B. Concrete Slabs and Walls: Install sleeves for penetrations unless core-drilled holes or formed openings are used. Install sleeves during erection of slabs and walls.
- C. Use pipe sleeves unless penetration arrangement requires rectangular sleeved opening.
- D. Rectangular Sleeve Minimum Metal Thickness:
 - 1. For sleeve rectangle perimeter less than 50 inches (1270 mm) and no side greater than 16 inches (400 mm), thickness shall be 0.052 inch (1.3 mm).
 - 2. For sleeve rectangle perimeter equal to, or greater than, 50 inches (1270 mm) and 1 or more sides equal to, or greater than, 16 inches (400 mm), thickness shall be 0.138 inch (3.5 mm).
- E. Fire-Rated Assemblies: Install sleeves for penetrations of fire-rated floor and wall assemblies unless openings compatible with firestop system used are fabricated during construction of floor or wall.
- F. Cut sleeves to length for mounting flush with both wall surfaces.
- G. Extend sleeves installed in floors 2 inches (50 mm) above finished floor level.
- H. Size pipe sleeves to provide 1/4-inch (6.4-mm) annular clear space between sleeve and cable unless sleeve seal is to be installed or unless seismic criteria require different clearance.
- I. Seal space outside of sleeves with grout for penetrations of concrete and masonry and with approved joint compound for gypsum board assemblies.
- J. Interior Penetrations of Non-Fire-Rated Walls and Floors: Seal annular space between sleeve and cable, using joint sealant appropriate for size, depth, and location of joint according to Division 07 Section "Joint Sealants."
- K. Fire-Rated-Assembly Penetrations: Maintain indicated fire rating of walls, partitions, ceilings, and floors at cable penetrations. Install sleeves and seal with firestop materials according to Division 07 Section "Penetration Firestopping."
- L. Roof-Penetration Sleeves: Seal penetration of individual cables with flexible boot-type flashing units applied in coordination with roofing work.

- M. Aboveground Exterior-Wall Penetrations: Seal penetrations using sleeves and mechanical sleeve seals. Size sleeves to allow for 1-inch (25-mm) annular clear space between pipe and sleeve for installing mechanical sleeve seals.
- N. Underground Exterior-Wall Penetrations: Install cast-iron "wall pipes" for sleeves. Size sleeves to allow for 1-inch (25-mm) annular clear space between cable and sleeve for installing mechanical sleeve seals.

3.6 SLEEVE-SEAL INSTALLATION

- A. Install to seal underground exterior-wall penetrations.
- B. Use type and number of sealing elements recommended by manufacturer for cable material and size. Position cable in center of sleeve. Assemble mechanical sleeve seals and install in annular space between cable and sleeve. Tighten bolts against pressure plates that cause sealing elements to expand and make watertight seal.

3.7 FIRESTOPPING

- A. Apply firestopping to electrical penetrations of fire-rated floor and wall assemblies to restore original fire-resistance rating of assembly according to Division 07 Section "Penetration Firestopping."

END OF SECTION 260519

SECTION 260526 - GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes methods and materials for grounding systems and equipment.

1.3 SUBMITTALS

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- B. Comply with UL 467 for grounding and bonding materials and equipment.

PART 2 - PRODUCTS

2.1 CONDUCTORS

- A. Insulated Conductors: Copper wire or cable insulated for 600 V unless otherwise required by applicable Code or authorities having jurisdiction.
- B. Bare Copper Conductors:
 - 1. Solid Conductors: ASTM B 3.
 - 2. Stranded Conductors: ASTM B 8.
 - 3. Tinned Conductors: ASTM B 33.
 - 4. Bonding Cable: 28 kcmil, 14 strands of No. 17 AWG conductor, 1/4 inch (6 mm) in diameter.
 - 5. Bonding Conductor: No. 4 or No. 6 AWG, stranded conductor.
 - 6. Bonding Jumper: Copper tape, braided conductors, terminated with copper ferrules; 1-5/8 inches (41 mm) wide and 1/16 inch (1.6 mm) thick.
- C. Grounding Bus: Rectangular bars of annealed copper, 1/4 by 2 inches (6 by 50 mm) in cross section, unless otherwise indicated; with insulators.

2.2 CONNECTORS

- A. Listed and labeled by a nationally recognized testing laboratory acceptable to authorities having jurisdiction for applications in which used, and for specific types, sizes, and combinations of conductors and other items connected.
- B. Bolted Connectors for Conductors and Pipes: Copper or copper alloy, bolted pressure-type, with at least two bolts.
 - 1. Pipe Connectors: Clamp type, sized for pipe.
- C. Welded Connectors: Exothermic-welding kits of types recommended by kit manufacturer for materials being joined and installation conditions.

2.3 GROUNDING ELECTRODES

- A. Ground Rods: Copper-clad 5/8 by 96 inches (16 by 2400 mm) in diameter or as noted on drawings.
- B. Ufer ground: bare copper as noted on drawings.
- C. All underground connections to the grounding electrode system shall be cad welded connections.

PART 3 - EXECUTION

3.1 APPLICATIONS

- A. Conductors: Install stranded conductor for No. 8 AWG and smaller, and stranded conductors for No. 6 AWG and larger, unless otherwise indicated.
- B. Underground Grounding Conductors: Install bare copper conductor, No. 3/0 AWG minimum.
 - 1. Bury at least 24 inches (600 mm) below grade.
- C. Grounding Bus: Install in electrical and telephone equipment rooms, in rooms housing service equipment, and elsewhere as indicated.
 - 1. Install bus on insulated spacers 1 inch (25 mm), minimum, from wall 6 inches (150 mm) above finished floor, unless otherwise indicated.
 - 2. Where indicated on both sides of doorways, route bus up to top of door frame, across top of doorway, down to specified height above floor, and connect to horizontal bus.
- D. Conductor Terminations and Connections:
 - 1. Pipe and Equipment Grounding Conductor Terminations: Bolted connectors.
 - 2. Underground Connections: Welded connectors are required, except at test wells and as otherwise indicated.
 - 3. Connections to Structural Steel (red iron): Welded connectors.

3.2 EQUIPMENT GROUNDING

- A. Install insulated equipment grounding conductors with all feeders and branch circuits.
- B. Install insulated equipment grounding conductors with the following items, in addition to those required by NFPA 70:
 - 1. Feeders and branch circuits.
 - 2. Lighting circuits.
 - 3. Receptacle circuits.
 - 4. Single-phase motor and appliance branch circuits.
 - 5. Three-phase motor and appliance branch circuits.
 - 6. Flexible raceway runs.
 - 7. Armored and metal-clad cable runs.
 - 8. Computer and Rack-Mounted Electronic Equipment Circuits: Install insulated equipment grounding conductor in branch-circuit runs from equipment-area power panels and power-distribution units.
- C. Air-Duct Equipment Circuits: Install insulated equipment grounding conductor to duct-mounted electrical devices operating at 120 V and more, including air cleaners, heaters, dampers, humidifiers, and other duct electrical equipment. Bond conductor to each unit and to air duct and connected metallic piping.
- D. Water Heater, Heat-Tracing, and Antifrost Heating Cables: Install a separate insulated equipment grounding conductor to each electric water heater and heat-tracing cable. Bond conductor to heater units, piping, connected equipment, and components.
- E. Signal and Communication Equipment: For telephone, alarm, voice and data, and other communication equipment, provide No. 4 AWG minimum insulated grounding conductor in raceway from grounding electrode system to each service location, terminal cabinet, wiring closet, and central equipment location.
 - 1. Service and Central Equipment Locations and Wiring Closets: Terminate grounding conductor on a 1/4-by-2-by-12-inch (6-by-50-by-300-mm) grounding bus.
 - 2. Terminal Cabinets: Terminate grounding conductor on cabinet grounding terminal.

3.3 INSTALLATION

- A. Grounding Conductors: Route along shortest and straightest paths possible, unless otherwise indicated or required by Code. Avoid obstructing access or placing conductors where they may be subjected to strain, impact, or damage.
- B. Bonding Straps and Jumpers: Install in locations accessible for inspection and maintenance, except where routed through short lengths of conduit.
 - 1. Bonding to Structure: Bond straps directly to basic structure, taking care not to penetrate any adjacent parts.
 - 2. Bonding to Equipment Mounted on Vibration Isolation Hangers and Supports: Install so vibration is not transmitted to rigidly mounted equipment.

3. Use exothermic-welded connectors for outdoor locations, but if a disconnect-type connection is required, use a bolted clamp.
- C. Grounding and Bonding for Piping:
1. Metal Water Service Pipe: Install insulated copper grounding conductors, in conduit, from building's main service equipment, or grounding bus, to main metal water service entrances to building. Connect grounding conductors to main metal water service pipes, using a bolted clamp connector or by bolting a lug-type connector to a pipe flange, using one of the lug bolts of the flange. Where a dielectric main water fitting is installed, connect grounding conductor on street side of fitting. Bond metal grounding conductor conduit or sleeve to conductor at each end.
 2. Water Meter Piping: Use braided-type bonding jumpers to electrically bypass water meters. Connect to pipe with a bolted connector.
 3. Bond each aboveground portion of gas piping system downstream from equipment shutoff valve.
- D. Bonding Interior Metal Ducts: Bond metal air ducts to equipment grounding conductors of associated fans, blowers, electric heaters, and air cleaners. Install bonding jumper to bond across flexible duct connections to achieve continuity.
- E. Grounding for Steel Building Structure: Install a driven ground rod at base of each corner column and at intermediate exterior columns at distances not more than 60 feet (18 m) apart.
- F. Ufer Ground (Concrete-Encased Grounding Electrode): Fabricate according to NFPA 70, using a minimum of 20 feet (6 m) of bare copper conductor not smaller than No. 4 AWG or as noted on drawings.
1. If concrete foundation is less than 20 feet (6 m) long, coil excess conductor within base of foundation.
 2. Bond grounding conductor to reinforcing steel in at least four locations and to anchor bolts. Extend grounding conductor below grade and connect to building grounding grid or to grounding electrode external to concrete.

END OF SECTION 260526

SECTION 260529 - HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Hangers and supports for electrical equipment and systems.
 - 2. Construction requirements for concrete bases.
- B. Related Sections include the following:
 - 1. Division 26 Section "Vibration And Seismic Controls For Electrical Systems" for products and installation requirements necessary for compliance with seismic criteria.

1.3 DEFINITIONS

- A. EMT: Electrical metallic tubing.
- B. IMC: Intermediate metal conduit.
- C. RMC: Rigid metal conduit.

1.4 SUBMITTALS

- A. Product Data: For the following:
 - 1. Steel slotted support systems.
 - 2. Nonmetallic slotted support systems.
- B. Shop Drawings: Show fabrication and installation details for the following:
 - 1. Trapeze hangers. Include Product Data for components.
 - 2. Steel slotted channel systems. Include Product Data for components.
 - 3. Nonmetallic slotted channel systems. Include Product Data for components.
 - 4. Equipment supports.

1.5 QUALITY ASSURANCE

- A. Comply with NFPA 70.

1.6 COORDINATION

- A. Coordinate size and location of concrete bases. Cast anchor-bolt inserts into bases. Concrete, reinforcement, and formwork requirements are specified in Division 03.
- B. Coordinate installation of roof curbs, equipment supports, and roof penetrations. These items are specified in Division 07 Section "Roof Accessories."

PART 2 - PRODUCTS

2.1 SUPPORT, ANCHORAGE, AND ATTACHMENT COMPONENTS

- A. Steel Slotted Support Systems: Comply with MFMA-4, factory-fabricated components for field assembly.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Allied Tube & Conduit.
 - b. Cooper B-Line, Inc.; a division of Cooper Industries.
 - c. ERICO International Corporation.
 - d. GS Metals Corp.
 - e. Thomas & Betts Corporation.
 - f. Unistrut; Tyco International, Ltd.
 - g. Wesanco, Inc.
 - 2. Metallic Coatings: Hot-dip galvanized after fabrication and applied according to MFMA-4.
 - 3. Painted Coatings: Manufacturer's standard painted coating applied according to MFMA-4.
 - 4. Channel Dimensions: Selected for applicable load criteria.
- B. Raceway and Cable Supports: As described in NECA 1 and NECA 101.
- C. Conduit and Cable Support Devices: Steel hangers, clamps, and associated fittings, designed for types and sizes of raceway or cable to be supported.
- D. Support for Conductors in Vertical Conduit: Factory-fabricated assembly consisting of threaded body and insulating wedging plug or plugs for non-armored electrical conductors or cables in riser conduits. Plugs shall have number, size, and shape of conductor gripping pieces as required to suit individual conductors or cables supported. Body shall be malleable iron.
- E. Structural Steel for Fabricated Supports and Restraints: ASTM A 36/A 36M, steel plates, shapes, and bars; black and galvanized.

- F. Mounting, Anchoring, and Attachment Components: Items for fastening electrical items or their supports to building surfaces include the following:
1. Mechanical-Expansion Anchors: Insert-wedge-type, zinc-coated steel, for use in hardened portland cement concrete with tension, shear, and pullout capacities appropriate for supported loads and building materials in which used.
 - a. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - b. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1) Cooper B-Line, Inc.; a division of Cooper Industries.
 - 2) Empire Tool and Manufacturing Co., Inc.
 - 3) Hilti Inc.
 - 4) ITW Ramset/Red Head; a division of Illinois Tool Works, Inc.
 - 5) MKT Fastening, LLC.
 2. Concrete Inserts: Steel or malleable-iron, slotted support system units similar to MSS Type 18; complying with MFMA-4 or MSS SP-58.
 3. Clamps for Attachment to Steel Structural Elements: MSS SP-58, type suitable for attached structural element.
 4. Through Bolts: Structural type, hex head, and high strength. Comply with ASTM A 325.
 5. Toggle Bolts: All-steel springhead type.
 6. Hanger Rods: Threaded steel.

2.2 FABRICATED METAL EQUIPMENT SUPPORT ASSEMBLIES

- A. Description: Welded or bolted, structural-steel shapes, shop or field fabricated to fit dimensions of supported equipment.
- B. Materials: Comply with requirements in Division 05 Section "Metal Fabrications" for steel shapes and plates.

PART 3 - EXECUTION

3.1 APPLICATION

- A. Comply with NECA 1 and NECA 101 for application of hangers and supports for electrical equipment and systems except if requirements in this Section are stricter.
- B. Maximum Support Spacing and Minimum Hanger Rod Size for Raceway: Space supports for EMT, IMC, and RMC as required by NFPA 70. Minimum rod size shall be 1/4 inch (6 mm) in diameter.

- C. Multiple Raceways or Cables: Install trapeze-type supports fabricated with steel slotted support system, sized so capacity can be increased by at least 25 percent in future without exceeding specified design load limits.
 - 1. Secure raceways and cables to these supports with two-bolt conduit clamps Retain paragraph below for projects where seismic design requirements do not apply. Consider retaining for light-commercial projects only.
- D. Spring-steel clamps designed for supporting single conduits without bolts may be used for 1-1/2-inch (38-mm) and smaller raceways serving branch circuits and communication systems above suspended ceilings and for fastening raceways to trapeze supports.

3.2 SUPPORT INSTALLATION

- A. Comply with NECA 1 and NECA 101 for installation requirements except as specified in this Article.
- B. Strength of Support Assemblies: Where not indicated, select sizes of components so strength will be adequate to carry present and future static loads within specified loading limits. Minimum static design load used for strength determination shall be weight of supported components plus 200 lb (90 kg).
- C. Mounting and Anchorage of Surface-Mounted Equipment and Components: Anchor and fasten electrical items and their supports to building structural elements by the following methods unless otherwise indicated by code:
 - 1. To Wood: Fasten with lag screws or through bolts.
 - 2. To New Concrete: Bolt to concrete inserts.
 - 3. To Masonry: Approved toggle-type bolts on hollow masonry units and expansion anchor fasteners on solid masonry units.
 - 4. To Existing Concrete: Expansion anchor fasteners.
 - 5. Instead of expansion anchors, powder-actuated driven threaded studs provided with lock washers and nuts may be used in existing standard-weight concrete 4 inches (100 mm) thick or greater. Do not use for anchorage to lightweight-aggregate concrete or for slabs less than 4 inches (100 mm) thick.
 - 6. To Steel: Beam clamps (MSS Type 19, 21, 23, 25, or 27) complying with MSS SP-69.
 - 7. To Light Steel: Sheet metal screws.
 - 8. Items Mounted on Hollow Walls and Nonstructural Building Surfaces: Mount cabinets, panelboards, disconnect switches, control enclosures, pull and junction boxes, transformers, and other devices on slotted-channel racks attached to substrate by means that meet seismic-restraint strength and anchorage requirements.
- D. Drill holes for expansion anchors in concrete at locations and to depths that avoid reinforcing bars.

3.3 INSTALLATION OF FABRICATED METAL SUPPORTS

- A. Comply with installation requirements in Division 05 Section "Metal Fabrications" for site-fabricated metal supports.

- B. Cut, fit, and place miscellaneous metal supports accurately in location, alignment, and elevation to support and anchor electrical materials and equipment.
- C. Field Welding: Comply with AWS D1.1/D1.1M.

3.4 CONCRETE BASES

- A. Construct concrete bases of dimensions indicated but not less than 4 inches (100 mm) larger in both directions than supported unit, and so anchors will be a minimum of 10 bolt diameters from edge of the base.
- B. Use 3000-psi (20.7-MPa), 28-day compressive-strength concrete. Anchor equipment to concrete base.
 - 1. Place and secure anchorage devices. Use supported equipment manufacturer's setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.
 - 2. Install anchor bolts to elevations required for proper attachment to supported equipment.
 - 3. Install anchor bolts according to anchor-bolt manufacturer's written instructions.

3.5 PAINTING

- A. Touchup: Clean field welds and abraded areas of shop paint. Paint exposed areas immediately after erecting hangers and supports. Use same materials as used for shop painting. Comply with SSPC-PA 1 requirements for touching up field-painted surfaces.
 - 1. Apply paint by brush or spray to provide minimum dry film thickness of 2.0 mils (0.05 mm).
- B. Galvanized Surfaces: Clean welds, bolted connections, and abraded areas and apply galvanizing-repair paint to comply with ASTM A 780.

END OF SECTION 260529

SECTION 260533 - RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes raceways, fittings, boxes, enclosures, and cabinets for electrical wiring.
- B. Related Sections include the following:
 - 1. Division 26 Section "Underground Ducts and Raceways for Electrical Systems" for exterior ductbanks, manholes, and underground utility construction.

1.3 DEFINITIONS

- A. EMT: Electrical metallic tubing.
- B. ENT: Electrical nonmetallic tubing.
- C. EPDM: Ethylene-propylene-diene terpolymer rubber.
- D. FMC: Flexible metal conduit.
- E. IMC: Intermediate metal conduit.
- F. LFMC: Liquidtight flexible metal conduit.
- G. LFNC: Liquidtight flexible nonmetallic conduit.
- H. NBR: Acrylonitrile-butadiene rubber.
- I. RNC: Rigid nonmetallic conduit.

1.4 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- B. Comply with NFPA 70.

PART 2 - PRODUCTS

2.1 METAL CONDUIT AND TUBING

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. AFC Cable Systems, Inc.
 2. Alflex Inc.
 3. Allied Tube & Conduit; a Tyco International Ltd. Co.
 4. Anamet Electrical, Inc.; Anaconda Metal Hose.
 5. Electri-Flex Co.
 6. Manhattan/CDT/Cole-Flex.
 7. Maverick Tube Corporation.
 8. O-Z Gedney; a unit of General Signal.
 9. Wheatland Tube Company.
- B. Rigid Steel Conduit: ANSI C80.1.
- C. Aluminum Rigid Conduit: ANSI C80.5.
- D. IMC: ANSI C80.6.
- E. PVC-Coated Steel Conduit: PVC-coated rigid steel conduit.
1. Comply with NEMA RN 1.
 2. Coating Thickness: 0.040 inch (1 mm), minimum.
- F. EMT: ANSI C80.3.
- G. FMC: Zinc-coated steel or aluminum.
- H. LFMC: Flexible steel conduit with PVC jacket.
- I. Fittings for Conduit (Including all Types and Flexible and Liquidtight), EMT, and Cable: NEMA FB 1; listed for type and size raceway with which used, and for application and environment in which installed.
1. Conduit Fittings for Hazardous (Classified) Locations: Comply with UL 886.
 2. Fittings for EMT: Steel type.
 3. Coating for Fittings for PVC-Coated Conduit: Minimum thickness, 0.040 inch (1 mm), with overlapping sleeves protecting threaded joints.
- J. Joint Compound for Rigid Steel Conduit or IMC: Listed for use in cable connector assemblies, and compounded for use to lubricate and protect threaded raceway joints from corrosion and enhance their conductivity.

2.2 NONMETALLIC CONDUIT AND TUBING

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. AFC Cable Systems, Inc.
 2. Anamet Electrical, Inc.; Anaconda Metal Hose.
 3. Arnco Corporation.
 4. CANTEX Inc.
 5. CertainTeed Corp.; Pipe & Plastics Group.
 6. Condux International, Inc.
 7. ElecSYS, Inc.
 8. Electri-Flex Co.
 9. Lamson & Sessions; Carlon Electrical Products.
 10. Manhattan/CDT/Cole-Flex.
 11. RACO; a Hubbell Company.
 12. Thomas & Betts Corporation.
- B. RNC: NEMA TC 2, Type EPC-40-PVC, unless otherwise indicated.

2.3 OPTICAL FIBER/COMMUNICATIONS CABLE RACEWAY AND FITTINGS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Arnco Corporation.
 2. Endot Industries Inc.
 3. IPEX Inc.
 4. Lamson & Sessions; Carlon Electrical Products.
- B. Description: Comply with UL 2024; flexible type, approved for plenum, riser installation.

2.4 METAL WIREWAYS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
- B. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Cooper B-Line, Inc.
 2. Hoffman.
 3. Square D; Schneider Electric.
- C. Description: Sheet metal sized and shaped as indicated, NEMA 250, Type 1, unless otherwise indicated.

- D. Fittings and Accessories: Include couplings, offsets, elbows, expansion joints, adapters, hold-down straps, end caps, and other fittings to match and mate with wireways as required for complete system.
- E. Wireway Covers: Hinged type.
- F. Finish: Manufacturer's standard enamel finish.

2.5 SURFACE RACEWAYS

- A. Surface Metal Raceways: Galvanized steel with snap-on covers. Prime coating, ready for field painting, painted to match conditions.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Hubbell
 - b. Walker Systems, Inc.; Wiremold Company (The).
 - c. Wiremold Company (The); Electrical Sales Division.
- B. Surface Nonmetallic Raceways: Two-piece construction, manufactured of rigid PVC with texture and color selected by Architect from manufacturer's standard colors.
 - 1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 2. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Hubbell Incorporated; Wiring Device-Kellems Division.
 - b. Walker Systems, Inc.; Wiremold Company (The).
 - c. Wiremold Company (The); Electrical Sales Division.

2.6 BOXES, ENCLOSURES, AND CABINETS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
- B. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Cooper Crouse-Hinds; Div. of Cooper Industries, Inc.
 - 2. EGS/Appleton Electric.
 - 3. Erickson Electrical Equipment Company.
 - 4. Hoffman.
 - 5. Hubbell Incorporated; Killark Electric Manufacturing Co. Division.
 - 6. RACO; a Hubbell Company.
 - 7. Thomas & Betts Corporation.
 - 8. Walker Systems, Inc.; Wiremold Company (The).

- 9. Woodhead, Daniel Company; Woodhead Industries, Inc. Subsidiary.
- C. Sheet Metal Outlet and Device Boxes: NEMA OS 1.
- D. Cast-Metal Outlet and Device Boxes: NEMA FB 1, ferrous alloy, Type FD, with gasketed cover.
- E. Nonmetallic Outlet and Device Boxes: NEMA OS 2.
- F. Metal Floor Boxes: Cast metal, rectangular.
- G. Nonmetallic Floor Boxes: Nonadjustable, round.
- H. Small Sheet Metal Pull and Junction Boxes: NEMA OS 1.
- I. Cast-Metal Access, Pull, and Junction Boxes: NEMA FB 1, galvanized, cast iron with gasketed cover.
- J. Hinged-Cover Enclosures: NEMA 250, Type 1, with continuous-hinge cover with flush latch, unless otherwise indicated.
 - 1. Metal Enclosures: Steel, finished inside and out with manufacturer's standard enamel.
- K. Cabinets:
 - 1. NEMA 250, Type 1, galvanized-steel box with removable interior panel and removable front, finished inside and out with manufacturer's standard enamel.
 - 2. Hinged door in front cover with flush latch and concealed hinge.
 - 3. Key latch to match panelboards.
 - 4. Metal barriers to separate wiring of different systems and voltage.
 - 5. Accessory feet where required for freestanding equipment.

2.7 HANDHOLES AND BOXES FOR EXTERIOR UNDERGROUND WIRING

- A. Description: Comply with SCTE 77.
 - 1. Color of Frame and Cover: Green.
 - 2. Configuration: Units shall be designed for flush burial and have open bottom, unless otherwise indicated.
 - 3. Cover: Weatherproof, secured by tamper-resistant locking devices and having structural load rating consistent with enclosure.
 - 4. Cover Finish: Nonskid finish shall have a minimum coefficient of friction of 0.50.
 - 5. Cover Legend: Molded lettering, "ELECTRIC." or "TELEPHONE." as indicated for each service.
 - 6. Conduit Entrance Provisions: Conduit-terminating fittings shall mate with entering ducts for secure, fixed installation in enclosure wall.
 - 7. Handholes 12 inches wide by 24 inches long (300 mm wide by 600 mm long) and larger shall have inserts for cable racks and pulling-in irons installed before concrete is poured.

- B. Polymer-Concrete Handholes and Boxes with Polymer-Concrete Cover: Molded of sand and aggregate, bound together with polymer resin, and reinforced with steel or fiberglass or a combination of the two.
 - 1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 2. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Armorcast Products Company.
 - b. Carson Industries LLC.
 - c. CDR Systems Corporation.
 - d. NewBasis.

- C. Fiberglass Handholes and Boxes with Polymer-Concrete Frame and Cover: Sheet-molded, fiberglass-reinforced, polyester-resin enclosure joined to polymer-concrete top ring or frame.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Armorcast Products Company.
 - b. Carson Industries LLC.
 - c. Christy Concrete Products.
 - d. Synertech Moulded Products, Inc.; a division of Oldcastle Precast.

- D. Fiberglass Handholes and Boxes: Molded of fiberglass-reinforced polyester resin, with covers of fiberglass.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Carson Industries LLC.
 - b. Christy Concrete Products.
 - c. Nordic Fiberglass, Inc.

2.8 SLEEVES FOR RACEWAYS

- A. Steel Pipe Sleeves: ASTM A 53/A 53M, Type E, Grade B, Schedule 40, galvanized steel, plain ends.
- B. Cast-Iron Pipe Sleeves: Cast or fabricated "wall pipe," equivalent to ductile-iron pressure pipe, with plain ends and integral waterstop, unless otherwise indicated.
- C. Sleeves for Rectangular Openings: Galvanized sheet steel with minimum 0.052- or 0.138-inch (1.3- or 3.5-mm) thickness as indicated and of length to suit application.
- D. Coordinate sleeve selection and application with selection and application of firestopping specified in Division 07 Section "Penetration Firestopping."

2.9 SLEEVE SEALS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Advance Products & Systems, Inc.
 2. Calpico, Inc.
 3. Metraflex Co.
 4. Pipeline Seal and Insulator, Inc.
- B. Description: Modular sealing device, designed for field assembly, to fill annular space between sleeve and cable.
1. Sealing Elements: EPDM interlocking links shaped to fit surface of cable or conduit. Include type and number required for material and size of raceway or cable.
 2. Pressure Plates: Stainless steel. Include two for each sealing element.
 3. Connecting Bolts and Nuts: Stainless steel of length required to secure pressure plates to sealing elements. Include one for each sealing element.

PART 3 - EXECUTION

3.1 PRODUCTION INSPECTIONS

- A. Installation approval by owner is required at each phase of construction as noted below. Proceeding without owner approval may result in rejection of work and/or installation and result in the contractor removing newly installed raceway, boxes, cables, racks, and etc (all system components).
1. Submittal documents (shop drawings).
 2. Substitution requests.
 3. Raceway Rough-in.
 4. Equipment location and installation.

3.2 RACEWAY APPLICATION

- A. Outdoors: Apply raceway products as specified below, unless otherwise indicated:
1. Exposed Conduit: Rigid steel conduit.
 2. Concealed Conduit, Aboveground: Rigid steel conduit.
 3. Underground Conduit: RNC, Type EPC-40 -PVC, direct buried.
 4. Connection to Vibrating Equipment (Including Transformers and Hydraulic, Pneumatic, Electric Solenoid, or Motor-Driven Equipment): LFMC.
 5. Boxes and Enclosures, Aboveground: NEMA 250, Type 3R.
 6. Application of Handholes and Boxes for Underground Wiring:
 - a. Handholes and Pull Boxes in Driveway, Parking Lot, and Off-Roadway Locations, Subject to Occasional, Nondeliberate Loading by Heavy Vehicles: Polymer concrete, SCTE 77, Tier 15 structural load rating.

- b. Handholes and Pull Boxes in Sidewalk and Similar Applications with a Safety Factor for Nondeliberate Loading by Vehicles: Polymer-concrete units, SCTE 77, Tier 8 structural load rating.
- c. Handholes and Pull Boxes Subject to Light-Duty Pedestrian Traffic Only: Fiberglass-reinforced polyester resin, structurally tested according to SCTE 77 with 3000-lbf (13 345-N) vertical loading.

B. Comply with the following indoor applications, unless otherwise indicated:

- 1. Exposed, Not Subject to Physical Damage: EMT.
- 2. Exposed, Not Subject to Severe Physical Damage: EMT
- 3. Exposed and Subject to Severe Physical Damage: Rigid steel conduit. Includes raceways in the following locations:
 - a. Loading dock.
 - b. Corridors used for traffic of mechanized carts, forklifts, and pallet-handling units.
 - c. Mechanical rooms.
- 4. Concealed in Ceilings and Interior Walls and Partitions: EMT.
- 5. Connection to Vibrating Equipment (Including Transformers and Hydraulic, Pneumatic, Electric Solenoid, or Motor-Driven Equipment): FMC, except use LFMC in damp or wet locations.
- 6. Damp or Wet Locations: Rigid steel conduit.
- 7. Raceways for Optical Fiber or Communications Cable in Spaces Used for Environmental Air: Plenum-type, optical fiber/communications cable raceway
- 8. Boxes and Enclosures: NEMA 250, Type 1, except use NEMA 250, Type 4, stainless steel in damp or wet locations.

C. Minimum Raceway Size: 3/4-inch (21-mm) trade size.

D. Raceway Fittings: Compatible with raceways and suitable for use and location.

- 1. Rigid and Intermediate Steel Conduit: Use threaded rigid steel conduit fittings, unless otherwise indicated.
- 2. PVC Externally Coated, Rigid Steel Conduits: Use only fittings listed for use with that material. Patch and seal all joints, nicks, and scrapes in PVC coating after installing conduits and fittings. Use sealant recommended by fitting manufacturer.

E. Install nonferrous conduit or tubing for circuits operating above 60 Hz. Where aluminum raceways are installed for such circuits and pass through concrete, install in nonmetallic sleeve.

F. Do not install aluminum conduits in contact with concrete.

3.3 INSTALLATION

A. Comply with NECA 1 for installation requirements applicable to products specified in Part 2 except where requirements on Drawings or in this Article are stricter.

B. Keep raceways at least 6 inches (150 mm) away from parallel runs of flues and steam or hot-water pipes. Install horizontal raceway runs above water and steam piping.

- C. Complete raceway installation before starting conductor installation.
- D. Support raceways as specified in Division 26 Section "Hangers and Supports for Electrical Systems."
- E. Arrange stub-ups so curved portions of bends are not visible above the finished slab.
- F. Install no more than the equivalent of three 90-degree bends in any conduit run except for communications conduits, for which fewer bends are allowed.
- G. Conceal conduit and EMT within finished walls, ceilings, and floors, unless otherwise indicated.
- H. Raceways Embedded in Slabs:
 - 1. Run conduit larger than 1-inch (27-mm) trade size, parallel or at right angles to main reinforcement. Where at right angles to reinforcement, place conduit close to slab support.
 - 2. Arrange raceways to cross building expansion joints at right angles with expansion fittings.
 - 3. Change from ENT to RNC, Type EPC-40-PVC, rigid steel conduit, or IMC before rising above the floor.
- I. Threaded Conduit Joints, Exposed to Wet, Damp, Corrosive, or Outdoor Conditions: Apply listed compound to threads of raceway and fittings before making up joints. Follow compound manufacturer's written instructions.
- J. Raceway Terminations at Locations Subject to Moisture or Vibration: Use insulating bushings to protect conductors, including conductors smaller than No. 4 AWG.
- K. Install pull wires in empty raceways. Use polypropylene or monofilament plastic line with not less than 200-lb (90-kg) tensile strength. Leave at least 12 inches (300 mm) of slack at each end of pull wire.
- L. Raceways for Optical Fiber and Communications Cable: Install raceways, metallic and nonmetallic, rigid and flexible, as follows:
 - 1. 3/4-Inch (19-mm) Trade Size and Smaller: Install raceways in maximum lengths of 50 feet (15 m).
 - 2. 1-Inch (25-mm) Trade Size and Larger: Install raceways in maximum lengths of 75 feet (23 m).
 - 3. Install with a maximum of two 90-degree bends or equivalent for each length of raceway unless Drawings show stricter requirements. Separate lengths with pull or junction boxes or terminations at distribution frames or cabinets where necessary to comply with these requirements.
- M. Install raceway sealing fittings at suitable, approved, and accessible locations and fill them with listed sealing compound. For concealed raceways, install each fitting in a flush steel box with a blank cover plate having a finish similar to that of adjacent plates or surfaces. Install raceway sealing fittings at the following points:

1. Where conduits pass from warm to cold locations, such as boundaries of refrigerated spaces.
 2. Where otherwise required by NFPA 70.
- N. Flexible Conduit Connections: Use maximum of 72 inches (1830 mm) of flexible conduit for recessed and semirecessed lighting fixtures, equipment subject to vibration, noise transmission, or movement; and for transformers and motors.
1. Use LFMC in damp or wet locations subject to severe physical damage.
 2. Use LFMC or LFNC in damp or wet locations not subject to severe physical damage.
- O. Recessed Boxes in Masonry Walls: Saw-cut opening for box in center of cell of masonry block, and install box flush with surface of wall.
- P. Set metal floor boxes level and flush with finished floor surface.
- Q. Set nonmetallic floor boxes level. Trim after installation to fit flush with finished floor surface.

3.4 INSTALLATION OF UNDERGROUND CONDUIT

A. Direct-Buried Conduit:

1. Excavate trench bottom to provide firm and uniform support for conduit. Prepare trench bottom as specified in Division 31 Section "Earth Moving" for pipe less than 6 inches (150 mm) in nominal diameter.
2. Install backfill as specified in Division 31 Section "Earth Moving."
3. After installing conduit, backfill and compact. Start at tie-in point, and work toward end of conduit run, leaving conduit at end of run free to move with expansion and contraction as temperature changes during this process. Firmly hand tamp backfill around conduit to provide maximum supporting strength. After placing controlled backfill to within 12 inches (300 mm) of finished grade, make final conduit connection at end of run and complete backfilling with normal compaction as specified in Division 31 Section "Earth Moving."
4. Install manufactured duct elbows for stub-ups at poles and equipment and at building entrances through the floor, unless otherwise indicated. Encase elbows for stub-up ducts throughout the length of the elbow.
5. Install manufactured rigid steel conduit elbows for stub-ups at poles and equipment and at building entrances through the floor.
 - a. Couple steel conduits to ducts with adapters designed for this purpose, and encase coupling with 3 inches (75 mm) of concrete.
 - b. For stub-ups at equipment mounted on outdoor concrete bases, extend steel conduit horizontally a minimum of 60 inches (1500 mm) from edge of equipment pad or foundation. Install insulated grounding bushings on terminations at equipment.
6. Warning Planks: Bury warning planks approximately 12 inches (300 mm) above direct-buried conduits, placing them 24 inches (600 mm) o.c. Align planks along the width and along the centerline of conduit.

3.5 INSTALLATION OF UNDERGROUND HANDHOLES AND BOXES

- A. Install handholes and boxes level and plumb and with orientation and depth coordinated with connecting conduits to minimize bends and deflections required for proper entrances.
- B. Unless otherwise indicated, support units on a level bed of crushed stone or gravel, graded from 1/2-inch (12.5-mm) sieve to No. 4 (4.75-mm) sieve and compacted to same density as adjacent undisturbed earth.
- C. Elevation: In paved areas, set so cover surface will be flush with finished grade. Set covers of other enclosures 1 inch (25 mm) above finished grade.
- D. Field-cut openings for conduits according to enclosure manufacturer's written instructions. Cut wall of enclosure with a tool designed for material to be cut. Size holes for terminating fittings to be used, and seal around penetrations after fittings are installed.

3.6 SLEEVE INSTALLATION FOR ELECTRICAL PENETRATIONS

- A. Coordinate sleeve selection and application with selection and application of firestopping specified in Division 07 Section "Penetration Firestopping."
- B. Concrete Slabs and Walls: Install sleeves for penetrations unless core-drilled holes or formed openings are used. Install sleeves during erection of slabs and walls.
- C. Use pipe sleeves unless penetration arrangement requires rectangular sleeved opening.
- D. Rectangular Sleeve Minimum Metal Thickness:
 - 1. For sleeve cross-section rectangle perimeter less than 50 inches (1270 mm) and no side greater than 16 inches (400 mm), thickness shall be 0.052 inch (1.3 mm).
 - 2. For sleeve cross-section rectangle perimeter equal to, or greater than, 50 inches (1270 mm) and 1 or more sides equal to, or greater than, 16 inches (400 mm), thickness shall be 0.138 inch (3.5 mm).
- E. Fire-Rated Assemblies: Install sleeves for penetrations of fire-rated floor and wall assemblies unless openings compatible with firestop system used are fabricated during construction of floor or wall.
- F. Cut sleeves to length for mounting flush with both surfaces of walls.
- G. Extend sleeves installed in floors 2 inches (50 mm) above finished floor level.
- H. Size pipe sleeves to provide 1/4-inch (6.4-mm) annular clear space between sleeve and raceway unless sleeve seal is to be installed.
- I. Seal space outside of sleeves with grout for penetrations of concrete and masonry.
- J. Interior Penetrations of Non-Fire-Rated Walls and Floors: Seal annular space between sleeve and raceway, using joint sealant appropriate for size, depth, and location of joint. Refer to Division 07 Section "Joint Sealants" for materials and installation.

- K. Fire-Rated-Assembly Penetrations: Maintain indicated fire rating of walls, partitions, ceilings, and floors at raceway penetrations. Install sleeves and seal with firestop materials. Comply with Division 07 Section "Penetration Firestopping."
- L. Roof-Penetration Sleeves: Seal penetration of individual raceways with flexible, boot-type flashing units applied in coordination with roofing work.
- M. Aboveground, Exterior-Wall Penetrations: Seal penetrations using sleeves and mechanical sleeve seals. Select sleeve size to allow for 1-inch (25-mm) annular clear space between pipe and sleeve for installing mechanical sleeve seals.
- N. Underground, Exterior-Wall Penetrations: Install cast-iron "wall pipes" for sleeves. Size sleeves to allow for 1-inch (25-mm) annular clear space between raceway and sleeve for installing mechanical sleeve seals.

3.7 SLEEVE-SEAL INSTALLATION

- A. Install to seal underground, exterior wall penetrations.
- B. Use type and number of sealing elements recommended by manufacturer for raceway material and size. Position raceway in center of sleeve. Assemble mechanical sleeve seals and install in annular space between raceway and sleeve. Tighten bolts against pressure plates that cause sealing elements to expand and make watertight seal.

3.8 FIRESTOPPING

- A. Apply firestopping to electrical penetrations of fire-rated floor and wall assemblies to restore original fire-resistance rating of assembly. Firestopping materials and installation requirements are specified in Division 07 Section "Penetration Firestopping."

3.9 PROTECTION

- A. Provide final protection and maintain conditions that ensure coatings, finishes, and cabinets are without damage or deterioration at time of Substantial Completion.
 - 1. Repair damage to galvanized finishes with zinc-rich paint recommended by manufacturer.
 - 2. Repair damage to PVC or paint finishes with matching touchup coating recommended by manufacturer.

END OF SECTION 260533

SECTION 260548 - VIBRATION AND SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes the following:

1. Isolation pads.
2. Spring isolators.
3. Restrained spring isolators.
4. Channel support systems.
5. Restraint cables.
6. Hanger rod stiffeners.
7. Anchorage bushings and washers.

- B. Related Sections include the following:

1. Division 26 Section "Hangers And Supports For Electrical Systems" for commonly used electrical supports and installation requirements.

1.3 DEFINITIONS

- A. The IBC: International Building Code.
- B. ICC-ES: ICC-Evaluation Service.
- C. OSHPD: Office of Statewide Health Planning and Development for the State of California.

1.4 PERFORMANCE REQUIREMENTS

- A. Seismic-Restraint Loading:

1. Site Class as Defined in the IBC:
2. Assigned Seismic Use Group or Building Category as Defined in the IBC:

1.5 QUALITY ASSURANCE

- A. Comply with NFPA 70.

PART 2 - PRODUCTS

2.1 SEISMIC-RESTRAINT DEVICES

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Amber/Booth Company, Inc.
 2. California Dynamics Corporation.
 3. Cooper B-Line, Inc.; a division of Cooper Industries.
 4. Hilti Inc.
 5. Loos & Co.; Seismic Earthquake Division.
 6. Mason Industries.
 7. TOLCO Incorporated; a brand of NIBCO INC.
 8. Unistrut; Tyco International, Ltd.
- B. General Requirements for Restraint Components: Rated strengths, features, and application requirements shall be as defined in reports by an agency acceptable to authorities having jurisdiction.
1. Structural Safety Factor: Allowable strength in tension, shear, and pullout force of components shall be at least four times the maximum seismic forces to which they will be subjected.
- C. Channel Support System: MFMA-3, shop- or field-fabricated support assembly made of slotted steel channels with accessories for attachment to braced component at one end and to building structure at the other end and other matching components and with corrosion-resistant coating; and rated in tension, compression, and torsion forces.
- D. Restraint Cables: ASTM A 603 galvanized-steel cables with end connections made of steel assemblies with thimbles, brackets, swivels, and bolts designed for restraining cable service; and with a minimum of two clamping bolts for cable engagement.
- E. Hanger Rod Stiffener: Steel tube or steel slotted-support-system sleeve with internally bolted connections to hanger rod. Do not weld stiffeners to rods.
- F. Bushings for Floor-Mounted Equipment Anchor: Neoprene bushings designed for rigid equipment mountings, and matched to type and size of anchors and studs.
- G. Bushing Assemblies for Wall-Mounted Equipment Anchorage: Assemblies of neoprene elements and steel sleeves designed for rigid equipment mountings, and matched to type and size of attachment devices.
- H. Resilient Isolation Washers and Bushings: One-piece, molded, oil- and water-resistant neoprene, with a flat washer face.
- I. Mechanical Anchor: Drilled-in and stud-wedge or female-wedge type in zinc-coated steel for interior applications and stainless steel for exterior applications. Select anchors with strength required for anchor and as tested according to ASTM E 488. Minimum length of eight times diameter.

- J. Adhesive Anchor: Drilled-in and capsule anchor system containing polyvinyl or urethane methacrylate-based resin and accelerator, or injected polymer or hybrid mortar adhesive. Provide anchor bolts and hardware with zinc-coated steel for interior applications and stainless steel for exterior applications. Select anchor bolts with strength required for anchor and as tested according to ASTM E 488.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and equipment to receive seismic-control devices for compliance with requirements for installation tolerances and other conditions affecting performance.
- B. Examine roughing-in of reinforcement and cast-in-place anchors to verify actual locations before installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 APPLICATIONS

- A. Multiple Raceways or Cables: Secure raceways and cables to trapeze member with clamps approved for application by an agency acceptable to authorities having jurisdiction.
- B. Hanger Rod Stiffeners: Install hanger rod stiffeners where indicated or scheduled on Drawings to receive them and where required to prevent buckling of hanger rods due to seismic forces.
- C. Strength of Support and Seismic-Restraint Assemblies: Where not indicated, select sizes of components so strength will be adequate to carry present and future static and seismic loads within specified loading limits.

3.3 SEISMIC-RESTRAINT DEVICE INSTALLATION

- A. Equipment and Hanger Restraints:
 - 1. Install restrained isolators on electrical equipment.
 - 2. Install resilient, bolt-isolation washers on equipment anchor bolts where clearance between anchor and adjacent surface exceeds 0.125 inch (3.2 mm).
 - 3. Install seismic-restraint devices using methods approved by an agency acceptable to authorities having jurisdiction providing required submittals for component.
- B. Install bushing assemblies for mounting bolts for wall-mounted equipment, arranged to provide resilient media where equipment or equipment-mounting channels are attached to wall.
- C. Attachment to Structure: If specific attachment is not indicated, anchor bracing to structure at flanges of beams, at upper truss chords of bar joists, or at concrete members.
- D. Drilled-in Anchors:

1. Identify position of reinforcing steel and other embedded items prior to drilling holes for anchors. Do not damage existing reinforcing or embedded items during coring or drilling. Notify the structural engineer if reinforcing steel or other embedded items are encountered during drilling. Locate and avoid prestressed tendons, electrical and telecommunications conduit, and gas lines.
2. Do not drill holes in concrete or masonry until concrete, mortar, or grout has achieved full design strength.
3. Wedge Anchors: Protect threads from damage during anchor installation. Heavy-duty sleeve anchors shall be installed with sleeve fully engaged in the structural element to which anchor is to be fastened.
4. Adhesive Anchors: Clean holes to remove loose material and drilling dust prior to installation of adhesive. Place adhesive in holes proceeding from the bottom of the hole and progressing toward the surface in such a manner as to avoid introduction of air pockets in the adhesive.
5. Set anchors to manufacturer's recommended torque, using a torque wrench.
6. Install zinc-coated steel anchors for interior and stainless-steel anchors for exterior applications.

3.4 ACCOMMODATION OF DIFFERENTIAL SEISMIC MOTION

- A. Install flexible connections in runs of raceways, cables, wireways, cable trays, and busways where they cross seismic joints, where adjacent sections or branches are supported by different structural elements, and where they terminate with connection to equipment that is anchored to a different structural element from the one supporting them as they approach equipment.

3.5 ADJUSTING

- A. Adjust isolators after isolated equipment is at operating weight.
- B. Adjust limit stops on restrained spring isolators to mount equipment at normal operating height. After equipment installation is complete, adjust limit stops so they are out of contact during normal operation.
- C. Adjust active height of spring isolators.
- D. Adjust restraints to permit free movement of equipment within normal mode of operation.

END OF SECTION 260548

SECTION 260553 - IDENTIFICATION FOR ELECTRICAL SYSTEMS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Identification for raceway and metal-clad cable.
 - 2. Identification for conductors and communication and control cable.
 - 3. Underground-line warning tape.
 - 4. Warning labels and signs.
 - 5. Instruction signs.
 - 6. Equipment identification labels.
 - 7. Miscellaneous identification products.

1.3 SUBMITTALS

- A. Product Data: For each electrical identification product indicated.
- B. Identification Schedule: An index of nomenclature of electrical equipment and system components used in identification signs and labels.
- C. Samples: For each type of label and sign to illustrate size, colors, lettering style, mounting provisions, and graphic features of identification products.

1.4 QUALITY ASSURANCE

- A. Comply with ANSI A13.1 and ANSI C2.
- B. Comply with NFPA 70.
- C. Comply with 29 CFR 1910.145.

1.5 COORDINATION

- A. Coordinate identification names, abbreviations, colors, and other features with requirements in the Contract Documents, Shop Drawings, manufacturer's wiring diagrams, and the Operation and Maintenance Manual, and with those required by codes, standards, and 29 CFR 1910.145. Use consistent designations throughout Project.

- B. Coordinate installation of identifying devices with completion of covering and painting of surfaces where devices are to be applied.
- C. Coordinate installation of identifying devices with location of access panels and doors.
- D. Install identifying devices before installing acoustical ceilings and similar concealment.

PART 2 - PRODUCTS

2.1 RACEWAY AND METAL-CLAD CABLE IDENTIFICATION MATERIALS

- A. Comply with ANSI A13.1 for minimum size of letters for legend and for minimum length of color field for each raceway and cable size.
- B. Color for Printed Legend:
 - 1. Power Circuits: Black letters on an orange field.
 - 2. Legend: Indicate system or service and voltage, if applicable.
- C. Self-Adhesive Vinyl Labels: Preprinted, flexible label laminated with a clear, weather- and chemical-resistant coating and matching wraparound adhesive tape for securing ends of legend label.
- D. Snap-Around Labels: Slit, pretensioned, flexible, preprinted, color-coded acrylic sleeves, with diameter sized to suit diameter of raceway or cable it identifies and to stay in place by gripping action.
- E. Snap-Around, Color-Coding Bands: Slit, pretensioned, flexible, solid-colored acrylic sleeves, 2 inches (50 mm) long, with diameter sized to suit diameter of raceway or cable it identifies and to stay in place by gripping action.
- F. Self-Adhesive Vinyl Tape: Colored, heavy duty, waterproof, fade resistant; 2 inches (50 mm) wide; compounded for outdoor use.

2.2 CONDUCTOR AND COMMUNICATION- AND CONTROL-CABLE IDENTIFICATION MATERIALS

- A. Color-Coding Conductor Tape: Colored, self-adhesive vinyl tape not less than 3 mils (0.08 mm) thick by 1 to 2 inches (25 to 50 mm) wide.
- B. Marker Tapes: Vinyl or vinyl-cloth, self-adhesive wraparound type, with circuit identification legend machine printed by thermal transfer or equivalent process.
- C. Aluminum Wraparound Marker Labels: Cut from 0.014-inch- (0.35-mm-) thick aluminum sheet, with stamped, embossed, or scribed legend, and fitted with tabs and matching slots for permanently securing around wire or cable jacket or around groups of conductors.
- D. Metal Tags: Brass or aluminum, 2 by 2 by 0.05 inch (50 by 50 by 1.3 mm), with stamped legend, punched for use with self-locking nylon tie fastener.

- E. Write-On Tags: Polyester tag, 0.015 inch (0.38 mm) thick, with corrosion-resistant grommet and polyester or nylon tie for attachment to conductor or cable.

- 1. Marker for Tags: Permanent, waterproof, black ink marker recommended by tag manufacturer.

2.3 UNDERGROUND-LINE WARNING TAPE

- A. Description: Permanent, bright-colored, continuous-printed, polyethylene tape.

- 1. Not less than 6 inches (150 mm) wide by 4 mils (0.102 mm) thick.
 - 2. Compounded for permanent direct-burial service.
 - 3. Embedded continuous metallic strip or core.
 - 4. Printed legend shall indicate type of underground line.

2.4 WARNING LABELS AND SIGNS

- A. Comply with NFPA 70 and 29 CFR 1910.145.

- B. Self-Adhesive Warning Labels: Factory printed, multicolor, pressure-sensitive adhesive labels, configured for display on front cover, door, or other access to equipment, unless otherwise indicated.

- C. Baked-Enamel Warning Signs: Preprinted aluminum signs, punched or drilled for fasteners, with colors, legend, and size required for application. 1/4-inch (6.4-mm) grommets in corners for mounting. Nominal size, 7 by 10 inches (180 by 250 mm).

- D. Metal-Backed, Butyrate Warning Signs: Weather-resistant, nonfading, preprinted, cellulose-acetate butyrate signs with 0.0396-inch (1-mm) galvanized-steel backing; and with colors, legend, and size required for application. 1/4-inch (6.4-mm) grommets in corners for mounting. Nominal size, 10 by 14 inches (250 by 360 mm).

- E. Warning label and sign shall include, but are not limited to, the following legends:

- 1. Multiple Power Source Warning: "DANGER - ELECTRICAL SHOCK HAZARD - EQUIPMENT HAS MULTIPLE POWER SOURCES."
 - 2. Workspace Clearance Warning: "WARNING - OSHA REGULATION - AREA IN FRONT OF ELECTRICAL EQUIPMENT MUST BE KEPT CLEAR FOR 36 INCHES (915 MM)."

2.5 INSTRUCTION SIGNS

- A. Engraved, laminated acrylic or melamine plastic, minimum 1/16 inch (1.6 mm) thick for signs up to 20 sq. in. (129 sq. cm) and 1/8 inch (3.2 mm) thick for larger sizes.

- 1. Engraved legend with black letters on white face.
 - 2. Punched or drilled for mechanical fasteners.
 - 3. Framed with mitered acrylic molding and arranged for attachment at applicable equipment.

2.6 EQUIPMENT IDENTIFICATION LABELS

- A. Adhesive Film Label: Machine printed, in black, by thermal transfer or equivalent process. Minimum letter height shall be 3/8 inch (10 mm).
- B. Adhesive Film Label with Clear Protective Overlay: Machine printed, in black, by thermal transfer or equivalent process. Minimum letter height shall be 3/8 inch (10 mm). Overlay shall provide a weatherproof and ultraviolet-resistant seal for label.
- C. Self-Adhesive, Engraved, Laminated Acrylic or Melamine Label: Adhesive backed, with white letters on a dark-gray background. Minimum letter height shall be 3/8 inch (10 mm).
- D. Engraved, Laminated Acrylic or Melamine Label: Punched or drilled for screw mounting. White letters on a dark-gray background. Minimum letter height shall be 3/8 inch (10 mm).
- E. Stenciled Legend: In nonfading, waterproof, black ink or paint. Minimum letter height shall be 1 inch (25 mm).

2.7 MISCELLANEOUS IDENTIFICATION PRODUCTS

- A. Cable Ties: Fungus-inert, self-extinguishing, 1-piece, self-locking, Type 6/6 nylon cable ties.
 - 1. Minimum Width: 3/16 inch (5 mm).
 - 2. Tensile Strength: 50 lb (22.6 kg), minimum.
 - 3. Temperature Range: Minus 40 to plus 185 deg F (Minus 40 to plus 85 deg C).
 - 4. Color: Black, except where used for color-coding.
- B. Paint: Paint materials and application requirements are specified in Division 09 painting Sections.
 - 1. Exterior Concrete, Stucco, and Masonry (Other Than Concrete Unit Masonry):
 - a. Semigloss Acrylic-Enamel Finish: Two finish coat(s) over a primer.
 - 1) Primer: Exterior concrete and masonry primer.
 - 2) Finish Coats: Exterior semigloss acrylic enamel.
 - 2. Exterior Concrete Unit Masonry:
 - a. Semigloss Acrylic-Enamel Finish: Two finish coat(s) over a block filler.
 - 1) Block Filler: Concrete unit masonry block filler.
 - 2) Finish Coats: Exterior semigloss acrylic enamel.
 - 3. Exterior Ferrous Metal:
 - a. Semigloss Alkyd-Enamel Finish: Two finish coat(s) over a primer.
 - 1) Primer: Exterior ferrous-metal primer.
 - 2) Finish Coats: Exterior semigloss alkyd enamel.

4. Exterior Zinc-Coated Metal (except Raceways):
 - a. Semigloss Alkyd-Enamel Finish: Two finish coat(s) over a primer.
 - 1) Primer: Exterior zinc-coated metal primer.
 - 2) Finish Coats: Exterior semigloss alkyd enamel.
 5. Interior Concrete and Masonry (Other Than Concrete Unit Masonry):
 - a. Semigloss Alkyd-Enamel Finish: Two finish coat(s) over a primer.
 - 1) Primer: Interior concrete and masonry primer.
 - 2) Finish Coats: Interior semigloss alkyd enamel.
 6. Interior Concrete Unit Masonry:
 - a. Semigloss Acrylic-Enamel Finish: Two finish coat(s) over a block filler.
 - 1) Block Filler: Concrete unit masonry block filler.
 - 2) Finish Coats: Interior semigloss acrylic enamel.
 7. Interior Gypsum Board:
 - a. Semigloss Acrylic-Enamel Finish: Two finish coat(s) over a primer.
 - 1) Primer: Interior gypsum board primer.
 - 2) Finish Coats: Interior semigloss acrylic enamel.
 8. Interior Ferrous Metal:
 - a. Semigloss Acrylic-Enamel Finish: Two finish coat(s) over a primer.
 - 1) Primer: Interior ferrous-metal primer.
 - 2) Finish Coats: Interior semigloss acrylic enamel.
 9. Interior Zinc-Coated Metal (except Raceways):
 - a. Semigloss Acrylic-Enamel Finish: Two finish coat(s) over a primer.
 - 1) Primer: Interior zinc-coated metal primer.
 - 2) Finish Coats: Interior semigloss acrylic enamel.
- C. Fasteners for Labels and Signs: Self-tapping, stainless-steel screws or stainless-steel machine screws with nuts and flat and lock washers.

PART 3 - EXECUTION

3.1 APPLICATION

- A. Accessible Raceways and Cables of Auxiliary Systems: Identify the following systems with color-coded, snap-around, color-coding bands:
 - 1. Fire Alarm System: Red.
 - 2. Fire-Suppression Supervisory and Control System: Red and yellow.
 - 3. Combined Fire Alarm and Security System: Red and blue.
 - 4. Security System: Blue and yellow.
 - 5. Mechanical and Electrical Supervisory System: Green and blue.
 - 6. Telecommunication System: Green and yellow.
 - 7. Control Wiring: Green and red.
- B. Power-Circuit Conductor Identification: For secondary conductors No. 1/0AWG and larger in vaults, pull and junction boxes, manholes, and handholes use color-coding conductor tape. Identify source and circuit number of each set of conductors. For single conductor cables, identify phase in addition to the above.
- C. Branch-Circuit Conductor Identification: Where there are conductors for more than three branch circuits in same junction or pull box, use color-coding conductor tape. Identify each ungrounded conductor according to source and circuit number.
- D. Conductors to Be Extended in the Future: Attach marker tape to conductors and list source and circuit number.
- E. Auxiliary Electrical Systems Conductor Identification: Identify field-installed alarm, control, signal, sound, intercommunications, voice, and data connections.
 - 1. Identify conductors, cables, and terminals in enclosures and at junctions, terminals, and pull points. Identify by system and circuit designation.
 - 2. Use system of marker tape designations that is uniform and consistent with system used by manufacturer for factory-installed connections.
 - 3. Coordinate identification with Project Drawings, manufacturer's wiring diagrams, and Operation and Maintenance Manual.
- F. Locations of Underground Lines: Identify with underground-line warning tape for power, lighting, communication, and control wiring and optical fiber cable. Install underground-line warning tape for both direct-buried cables and cables in raceway.
- G. Warning Labels for Indoor Cabinets, Boxes, and Enclosures for Power and Lighting: Comply with 29 CFR 1910.145 and apply self-adhesive warning labels. Identify system voltage with black letters on an orange background. Apply to exterior of door, cover, or other access.
 - 1. Equipment with Multiple Power or Control Sources: Apply to door or cover of equipment including, but not limited to, the following:
 - a. Power transfer switches.
 - b. Controls with external control power connections.

2. Equipment Requiring Workspace Clearance According to NFPA 70: Unless otherwise indicated, apply to door or cover of equipment but not on flush panelboards and similar equipment in finished spaces.
- H. Equipment Identification Labels: On each unit of equipment, install unique designation label that is consistent with wiring diagrams, schedules, and Operation and Maintenance Manual. Apply labels to disconnect switches and protection equipment, central or master units, control panels, control stations, terminal cabinets, and racks of each system. Systems include power, lighting, control, communication, signal, monitoring, and alarm systems unless equipment is provided with its own identification.
1. Labeling Instructions:
 - a. Indoor Equipment: Self-adhesive, engraved, laminated acrylic or melamine label]. Unless otherwise indicated, provide a single line of text with 1/2-inch- (13-mm-) high letters on 1-1/2-inch- (38-mm-) high label; where 2 lines of text are required, use labels 2 inches (50 mm) high.
 - b. Outdoor Equipment: Engraved, laminated acrylic or melamine label Stenciled legend 4 inches (100 mm) high.
 - c. Elevated Components: Increase sizes of labels and letters to those appropriate for viewing from the floor.
 2. Equipment to Be Labeled:
 - a. Panelboards, electrical cabinets, and enclosures.
 - b. Access doors and panels for concealed electrical items.
 - c. Electrical switchgear and switchboards.
 - d. Transformers.
 - e. Electrical substations.
 - f. Emergency system boxes and enclosures.
 - g. Motor-control centers.
 - h. Disconnect switches.
 - i. Enclosed circuit breakers.
 - j. Motor starters.
 - k. Push-button stations.
 - l. Power transfer equipment.
 - m. Contactors.
 - n. Remote-controlled switches, dimmer modules, and control devices.
 - o. Battery inverter units.
 - p. Battery racks.
 - q. Power-generating units.
 - r. Voice and data cable terminal equipment.
 - s. Master clock and program equipment.
 - t. Intercommunication and call system master and staff stations.
 - u. Television/audio components, racks, and controls.
 - v. Fire-alarm control panel and annunciators.
 - w. Security and intrusion-detection control stations, control panels, terminal cabinets, and racks.
 - x. Monitoring and control equipment.
 - y. Uninterruptible power supply equipment.

- z. Terminals, racks, and patch panels for voice and data communication and for signal and control functions.

3.2 INSTALLATION

- A. Verify identity of each item before installing identification products.
- B. Location: Install identification materials and devices at locations for most convenient viewing without interference with operation and maintenance of equipment.
- C. Apply identification devices to surfaces that require finish after completing finish work.
- D. Self-Adhesive Identification Products: Clean surfaces before application, using materials and methods recommended by manufacturer of identification device.
- E. Attach nonadhesive signs and plastic labels with screws and auxiliary hardware appropriate to the location and substrate.
- F. System Identification Color Banding for Raceways and Cables: Each color band shall completely encircle cable or conduit. Place adjacent bands of two-color markings in contact, side by side. Locate bands at changes in direction, at penetrations of walls and floors, at 50-foot (15-m) maximum intervals in straight runs, and at 25-foot (7.6-m) maximum intervals in congested areas.
- G. Color-Coding for Phase and Voltage Level Identification, 600 V and Less: Use the colors listed below for ungrounded service, feeder, and branch-circuit conductors.
 - 1. Color shall be factory applied.
 - 2. Colors for 208/120-V Circuits:
 - a. Phase A: Black.
 - b. Phase B: Red.
 - c. Phase C: Blue.
 - 3. Field-Applied, Color-Coding Conductor Tape: Apply in half-lapped turns for a minimum distance of 6 inches (150 mm) from terminal points and in boxes where splices or taps are made. Apply last two turns of tape with no tension to prevent possible unwinding. Locate bands to avoid obscuring factory cable markings.
- H. Aluminum Wraparound Marker Labels and Metal Tags: Secure tight to surface of conductor or cable at a location with high visibility and accessibility.
- I. Underground-Line Warning Tape: During backfilling of trenches install continuous underground-line warning tape directly above line at 6 to 8 inches (150 to 200 mm) below finished grade. Use multiple tapes where width of multiple lines installed in a common trench exceeds 16 inches (400 mm) overall.

END OF SECTION 260553

SECTION 262416 - PANELBOARDS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Distribution panelboards.
 - 2. Lighting and appliance branch-circuit panelboards.

1.3 DEFINITIONS

- A. SVR: Suppressed voltage rating.
- B. TVSS: Transient voltage surge suppressor.

1.4 PERFORMANCE REQUIREMENTS

- A. Seismic Performance: Panelboards shall withstand the effects of earthquake motions determined according to SEI/ASCE 7.
 - 1. The term "withstand" means "the unit will remain in place without separation of any parts from the device when subjected to the seismic forces specified and the unit will be fully operational after the seismic event."

1.5 SUBMITTALS

- A. Product Data: For each type of panelboard, switching and overcurrent protective device, transient voltage suppression device, accessory, and component indicated. Include dimensions and manufacturers' technical data on features, performance, electrical characteristics, ratings, and finishes.
- B. Shop Drawings: For each panelboard and related equipment.
 - 1. Include dimensioned plans, elevations, sections, and details. Show tabulations of installed devices, equipment features, and ratings.
 - 2. Detail enclosure types and details for types other than NEMA 250, Type 1.
 - 3. Detail bus configuration, current, and voltage ratings.
 - 4. Short-circuit current rating of panelboards and overcurrent protective devices.

5. Include evidence of NRTL listing for series rating of installed devices.
6. Detail features, characteristics, ratings, and factory settings of individual overcurrent protective devices and auxiliary components.
7. Include wiring diagrams for power, signal, and control wiring.
8. Include time-current coordination curves for each type and rating of overcurrent protective device included in panelboards. Submit on translucent log-log graph paper; include selectable ranges for each type of overcurrent protective device.

1.6 QUALITY ASSURANCE

- A. Source Limitations: Obtain panelboards, overcurrent protective devices, components, and accessories from single source from single manufacturer.
- B. Product Selection for Restricted Space: Drawings indicate maximum dimensions for panelboards including clearances between panelboards and adjacent surfaces and other items. Comply with indicated maximum dimensions.
- C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- D. Comply with NEMA PB 1.
- E. Comply with NFPA 70.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Remove loose packing and flammable materials from inside panelboards; install temporary electric heating (250 W per panelboard) to prevent condensation.

1.8 PROJECT CONDITIONS

- A. Environmental Limitations:
 1. Do not deliver or install panelboards until spaces are enclosed and weathertight, wet work in spaces is complete and dry, work above panelboards is complete, and temporary HVAC system is operating and maintaining ambient temperature and humidity conditions at occupancy levels during the remainder of the construction period.
 2. Rate equipment for continuous operation under the following conditions unless otherwise indicated:
 - a. Ambient Temperature: Not exceeding minus 22 deg F (minus 30 deg C) to plus 104 deg F (plus 40 deg C).
 - b. Altitude: Not exceeding 6600 feet (2000 m).
- B. Service Conditions: NEMA PB 1, usual service conditions, as follows:
 1. Ambient temperatures within limits specified.
 2. Altitude not exceeding 6600 feet (2000 m).

1.9 COORDINATION

- A. Coordinate layout and installation of panelboards and components with other construction that penetrates walls or is supported by them, including electrical and other types of equipment, raceways, piping, encumbrances to workspace clearance requirements, and adjacent surfaces. Maintain required workspace clearances and required clearances for equipment access doors and panels.
- B. Coordinate sizes and locations of concrete bases with actual equipment provided. Cast anchor-bolt inserts into bases. Concrete, reinforcement, and formwork requirements are specified in Division 03.

1.10 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace transient voltage suppression devices that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 GENERAL REQUIREMENTS FOR PANELBOARDS

- A. Fabricate and test panelboards according to IEEE 344 to withstand seismic forces defined in Division 26 Section "Vibration and Seismic Controls for Electrical Systems."
- B. Enclosures: Flush- and surface-mounted cabinets as noted in panel schedule.
 - 1. Rated for environmental conditions at installed location.
 - a. Indoor Dry and Clean Locations: NEMA 250, Type 1.
 - b. Outdoor Locations: NEMA 250, Type 3R.
 - c. Other Wet or Damp Indoor Locations: NEMA 250, Type 4.
 - d. Indoor Locations Subject to Dust, Falling Dirt, and Dripping Noncorrosive Liquids: NEMA 250, Type 12.
 - 2. Front: Secured to box with concealed trim clamps. For surface-mounted fronts, match box dimensions; for flush-mounted fronts, overlap box.
 - 3. Hinged Front Cover: Entire front trim hinged to box and with standard door within hinged trim cover.
 - 4. Skirt for Surface-Mounted Panelboards: Same gage and finish as panelboard front with flanges for attachment to panelboard, wall, and ceiling or floor.
 - 5. Gutter Extension and Barrier: Same gage and finish as panelboard enclosure; integral with enclosure body. Arrange to isolate individual panel sections.
 - 6. Finishes:

- a. Panels and Trim: Steel, factory finished immediately after cleaning and pretreating with manufacturer's standard two-coat, baked-on finish consisting of prime coat and thermosetting topcoat.
 - b. Back Boxes: Same finish as panels and trim.
 - c. Fungus Proofing: Permanent fungicidal treatment for overcurrent protective devices and other components.
- 7. Directory Card: Inside panelboard door, mounted in transparent card holder
- C. Incoming Mains Location: Top and bottom.
- D. Phase, Neutral, and Ground Buses:
 - 1. Material: Hard-drawn copper, 98 percent conductivity.
 - 2. Equipment Ground Bus: Adequate for feeder and branch-circuit equipment grounding conductors; bonded to box.
 - 3. Isolated Ground Bus: Adequate for branch-circuit isolated ground conductors; insulated from box.
 - 4. Extra-Capacity Neutral Bus: Neutral bus rated 200 percent of phase bus and UL listed as suitable for nonlinear loads.
- E. Conductor Connectors: Suitable for use with conductor material and sizes.
 - 1. Material: Hard-drawn copper, 98 percent conductivity.
 - 2. Main and Neutral Lugs: Mechanical type.
 - 3. Ground Lugs and Bus-Configured Terminators: Mechanical type.
 - 4. Feed-Through Lugs: Mechanical type, suitable for use with conductor material. Locate at opposite end of bus from incoming lugs or main device.
 - 5. Subfeed (Double) Lugs: [Mechanical type suitable for use with conductor material. Locate at same end of bus as incoming lugs or main device.
 - 6. Extra-Capacity Neutral Lugs: Rated 200 percent of phase lugs mounted on extra-capacity neutral bus.
- F. Service Equipment Label: NRTL labeled for use as service equipment for panelboards or load centers with one or more main service disconnecting and overcurrent protective devices.
- G. Future Devices: Mounting brackets, bus connections, filler plates, and necessary appurtenances required for future installation of devices.
- H. Panelboard Short-Circuit Current Rating: Rated for series-connected system with integral or remote upstream overcurrent protective devices and labeled by an NRTL. Include size and type of allowable upstream and branch devices, listed and labeled for series-connected short-circuit rating by an NRTL.

2.2 DISTRIBUTION PANELBOARDS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Eaton Electrical Inc.; Cutler-Hammer Business Unit.

2. General Electric Company; GE Consumer & Industrial - Electrical Distribution.
 3. Siemens Energy & Automation, Inc.
 4. Square D; a brand of Schneider Electric.
- B. Panelboards: NEMA PB 1, power and feeder distribution type.
- C. Doors: Secured with vault-type latch with tumbler lock; keyed alike.
1. For doors more than 36 inches (914 mm) high, provide two latches, keyed alike.
- D. Mains: Circuit breaker or Lugs only as indicated on drawings.
- E. Branch Overcurrent Protective Devices for Circuit-Breaker Frame Sizes 125 A and Smaller: Bolt-on circuit breakers.
- F. Branch Overcurrent Protective Devices for Circuit-Breaker Frame Sizes Larger Than 125 A: Bolt-on circuit breakers

2.3 LIGHTING AND APPLIANCE BRANCH-CIRCUIT PANELBOARDS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following
1. Eaton Electrical Inc.; Cutler-Hammer Business Unit.
 2. General Electric Company; GE Consumer & Industrial - Electrical Distribution.
 3. Siemens Energy & Automation, Inc.
 4. Square D; a brand of Schneider Electric.
- B. Panelboards: NEMA PB 1, lighting and appliance branch-circuit type.
- C. Mains: Circuit breaker or lugs only, as indicated on drawings.
- D. Branch Overcurrent Protective Devices: Bolt-on circuit breakers, replaceable without disturbing adjacent units.
- E. Doors: Concealed hinges; secured with flush latch with tumbler lock; keyed alike.
- F. Column-Type Panelboards: Narrow gutter extension, with cover, to overhead junction box equipped with ground and neutral terminal buses.

2.4 DISCONNECTING AND OVERCURRENT PROTECTIVE DEVICES

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following
1. Eaton Electrical Inc.; Cutler-Hammer Business Unit.
 2. General Electric Company; GE Consumer & Industrial - Electrical Distribution.
 3. Siemens Energy & Automation, Inc.
 4. Square D; a brand of Schneider Electric.

- B. Molded-Case Circuit Breaker (MCCB): Comply with UL 489, with series-connected rating interrupting capacity to meet available fault currents.
1. Thermal-Magnetic Circuit Breakers: Inverse time-current element for low-level overloads, and instantaneous magnetic trip element for short circuits. Adjustable magnetic trip setting for circuit-breaker frame sizes 250 A and larger.
 2. Adjustable Instantaneous-Trip Circuit Breakers: Magnetic trip element with front-mounted, field-adjustable trip setting.
 3. Electronic trip circuit breakers with rms sensing; field-replaceable rating plug or field-replicable electronic trip; and the following field-adjustable settings:
 - a. Instantaneous trip.
 - b. Long- and short-time pickup levels.
 - c. Long- and short-time time adjustments.
 - d. Ground-fault pickup level, time delay, and I^2t response.
 4. Current-Limiting Circuit Breakers: Frame sizes 400 A and smaller; let-through ratings less than NEMA FU 1, RK-5.
 5. GFCI Circuit Breakers: Single- and two-pole configurations with Class A ground-fault protection (6-mA trip).
 6. Ground-Fault Equipment Protection (GFEP) Circuit Breakers: Class B ground-fault protection (30-mA trip).
 7. Arc-Fault Circuit Interrupter (AFCI) Circuit Breakers: Comply with UL 1699; 120/240-V, single-pole configuration.
 8. Molded-Case Circuit-Breaker (MCCB) Features and Accessories:
 - a. Standard frame sizes, trip ratings, and number of poles.
 - b. Lugs: Mechanical style, suitable for number, size, trip ratings, and conductor materials.
 - c. Application Listing: Appropriate for application; Type SWD for switching fluorescent lighting loads; Type HID for feeding fluorescent and high-intensity discharge (HID) lighting circuits.

2.5 PANELBOARD SUPPRESSORS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Current Technology; a subsidiary of Danahar Corporation.
 2. Eaton Electrical Inc.; Cutler-Hammer Business Unit.
 3. General Electric Company; GE Consumer & Industrial - Electrical Distribution.
 4. Liebert Corporation.
 5. Siemens Energy & Automation, Inc.
 6. Square D; a brand of Schneider Electric.
- B. Surge Protection Device: IEEE C62.41-compliant, integrally mounted, solid-state, parallel-connected, non-modular type, with sine-wave tracking suppression and filtering modules, UL 1449, second edition, short-circuit current rating matching or exceeding the panelboard short-circuit rating, and with the following features and accessories:

1. Accessories:
 - a. LED indicator lights for power and protection status.
 - b. Audible alarm, with silencing switch, to indicate when protection has failed.
 - c. One set of dry contacts rated at 5 A and 250-V ac, for remote monitoring of protection status.

- C. Surge Protection Device: IEEE C62.41-compliant, integrally mounted, wired-in or bolt-on, solid-state, parallel-connected, modular (with field-replaceable modules) type, with sine-wave tracking suppression and filtering modules, UL 1449, second edition, short-circuit current rating matching or exceeding the panelboard short-circuit rating, and with the following features and accessories:
 1. Accessories:
 - a. Fuses rated at 200-kA interrupting capacity.
 - b. Fabrication using bolted compression lugs for internal wiring.
 - c. Integral disconnect switch.
 - d. Redundant suppression circuits.
 - e. Redundant replaceable modules.
 - f. Arrangement with wire connections to phase buses, neutral bus, and ground bus.
 - g. LED indicator lights for power and protection status.
 - h. Audible alarm, with silencing switch, to indicate when protection has failed.
 - i. Form-C contacts rated at 5 A and 250-V ac, one normally open and one normally closed, for remote monitoring of system operation. Contacts shall reverse position on failure of any surge diversion module or on opening of any current-limiting device. Coordinate with building power monitoring and control system.
 - j. Six-digit, transient-event counter set to totalize transient surges.
 2. Peak Single-Impulse Surge Current Rating: 160 kA per mode/320 kA per phase.
 3. Minimum single-impulse current ratings, using 8-by-20-mic.sec. waveform described in IEEE C62.41.2.
 - a. Line to Neutral: 70,000 A.
 - b. Line to Ground: 70,000 A.
 - c. Neutral to Ground: 50,000 A.
 4. Withstand Capabilities: 12,000 IEEE C62.41, Category C3 (10 kA), 8-by-20-mic.sec. surges with less than 5 percent change in clamping voltage.
 5. Protection modes and UL 1449 SVR for grounded wye circuits with 208Y/120-V, three-phase, four-wire circuits shall be as follows:
 - a. Line to Neutral: 400 V for 208Y/120.
 - b. Line to Ground: 400 V for 208Y/120.
 - c. Neutral to Ground: 400 V for 208Y/120.
 6. Protection modes and UL 1449 SVR for 240/120-V, single-phase, three-wire circuits shall be as follows:

- a. Line to Neutral: 400 V.
 - b. Line to Ground: 400 V.
 - c. Neutral to Ground: 400 V.
7. Protection modes and UL 1449 SVR for 240/120-V, three-phase, four-wire circuits with high leg shall be as follows:
- a. Line to Neutral: 400 V, 800 V from high leg.
 - b. Line to Ground: 400 V.
 - c. Neutral to Ground: 400 V.
8. Protection modes and UL 1449 SVR for 240-, 480-, or 600-V, three-phase, three-wire, delta circuits shall be as follows:
- a. Line to Line: 1000 V for 240 V.
 - b. Line to Ground: 800 V for 240 V.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine panelboards before installation. Reject panelboards that are damaged or rusted or have been subjected to water saturation.
- B. Examine elements and surfaces to receive panelboards for compliance with installation tolerances and other conditions affecting performance of the Work.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Equipment Mounting: Install panelboards on concrete bases, 4-inch (100-mm) nominal thickness.
 - 1. Install dowel rods to connect concrete base to concrete floor. Unless otherwise indicated, install dowel rods on 18-inch (450-mm) centers around full perimeter of base.
 - 2. For panelboards, install epoxy-coated anchor bolts that extend through concrete base and anchor into structural concrete floor.
 - 3. Place and secure anchorage devices. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.
 - 4. Install anchor bolts to elevations required for proper attachment to panelboards.
 - 5. Attach panelboard to the vertical finished or structural surface behind the panelboard.
- B. Temporary Lifting Provisions: Remove temporary lifting eyes, channels, and brackets and temporary blocking of moving parts from panelboards.
- C. Comply with mounting and anchoring requirements specified in Division 26 Section "Vibration and Seismic Controls for Electrical Systems."

- D. Mount top of trim 90 inches (2286 mm) above finished floor unless otherwise indicated.
- E. Mount panelboard cabinet plumb and rigid without distortion of box. Mount recessed panelboards with fronts uniformly flush with wall finish and mating with back box.
- F. Install overcurrent protective devices and controllers not already factory installed.
 - 1. Set field-adjustable, circuit-breaker trip ranges.
- G. Install filler plates in unused spaces.
- H. Stub four 1-inch (27-GRC) empty conduits from panelboard into accessible ceiling space or space designated to be ceiling space in the future. Stub four 1-inch (27-GRC) empty conduits into raised floor space or below slab not on grade.
- I. Arrange conductors in gutters into groups and bundle and wrap with wire ties after completing load balancing.
- J. Comply with NECA 1.

3.3 IDENTIFICATION

- A. Identify field-installed conductors, interconnecting wiring, and components; provide warning signs complying with Division 26 Section "Identification for Electrical Systems."
- B. Create a directory to indicate installed circuit loads after balancing panelboard loads; incorporate Owner's final room designations. Obtain approval before installing. Use a computer or typewriter to create directory; handwritten directories are not acceptable.
- C. Panelboard Nameplates: Label each panelboard with a nameplate complying with requirements for identification specified in Division 26 Section "Identification for Electrical Systems."
- D. Device Nameplates: Label each branch circuit device in distribution panelboards with a nameplate complying with requirements for identification specified in Division 26 Section "Identification for Electrical Systems."

3.4 ADJUSTING

- A. Adjust moving parts and operable component to function smoothly, and lubricate as recommended by manufacturer.
- B. Load Balancing: After Substantial Completion, but not more than 60 days after Final Acceptance, measure load balancing and make circuit changes.
 - 1. Measure as directed during period of normal system loading.
 - 2. Perform load-balancing circuit changes outside normal occupancy/working schedule of the facility and at time directed. Avoid disrupting critical 24-hour services such as fax machines and on-line data processing, computing, transmitting, and receiving equipment.
 - 3. After circuit changes, recheck loads during normal load period. Record all load readings before and after changes and submit test records.

4. Tolerance: Difference exceeding 20 percent between phase loads, within a panelboard, is not acceptable. Rebalance and recheck as necessary to meet this minimum requirement.

END OF SECTION 262416

SECTION 262726 - WIRING DEVICES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Receptacles, receptacles with integral GFCI, and associated device plates.
 - 2. Twist-locking receptacles.
 - 3. Receptacles with integral surge suppression units.
 - 4. Wall-box motion sensors.
 - 5. Isolated-ground receptacles.
 - 6. Snap switches and wall-box dimmers.
 - 7. Solid-state fan speed controls.
 - 8. Wall-switch and exterior occupancy sensors.
 - 9. Communications outlets.
 - 10. Pendant cord-connector devices.
 - 11. Cord and plug sets.
 - 12. Floor service outlets, poke-through assemblies, service poles, and multioutlet assemblies.
- B. Related Sections include the following:
 - 1. Division 27 Section "Communications Horizontal Cabling" for workstation outlets.

1.3 DEFINITIONS

- A. EMI: Electromagnetic interference.
- B. GFCI: Ground-fault circuit interrupter.
- C. Pigtail: Short lead used to connect a device to a branch-circuit conductor.
- D. RFI: Radio-frequency interference.
- E. TVSS: Transient voltage surge suppressor.
- F. UTP: Unshielded twisted pair.

1.4 SUBMITTALS

- A. Product Data: For each type of product indicated.

1.5 QUALITY ASSURANCE

- A. Source Limitations: Obtain each type of wiring device and associated wall plate through one source from a single manufacturer. Insofar as they are available, obtain all wiring devices and associated wall plates from a single manufacturer and one source.
- B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- C. Comply with NFPA 70.

1.6 COORDINATION

- A. Receptacles for Owner-Furnished Equipment: Match plug configurations.
 - 1. Cord and Plug Sets: Match equipment requirements.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers' Names: Shortened versions (shown in parentheses) of the following manufacturers' names are used in other Part 2 articles:
 - 1. Cooper Wiring Devices; a division of Cooper Industries, Inc. (Cooper).
 - 2. Hubbell Incorporated; Wiring Device-Kellems (Hubbell).
 - 3. Leviton Mfg. Company Inc. (Leviton).
 - 4. Pass & Seymour/Legrand; Wiring Devices & Accessories (Pass & Seymour).

2.2 STRAIGHT BLADE RECEPTACLES

- A. Convenience Receptacles, 125 V, 20 A: Comply with NEMA WD 1, NEMA WD 6 configuration 5-20R, and UL 498.
 - 1. Products: Subject to compliance with requirements, provide one of the following:
 - a. Cooper; 5351 (single), 5352 (duplex).
 - b. Hubbell; HBL5351 (single), CR5352 (duplex).
 - c. Leviton; 5891 (single), 5352 (duplex).
 - d. Pass & Seymour; 5381 (single), 5352 (duplex).

2.3 GFCI RECEPTACLES

- A. General Description: Straight blade, non-feed-through type. Comply with NEMA WD 1, NEMA WD 6, UL 498, and UL 943, Class A, and include indicator light that is lighted when device is tripped.
- B. Duplex GFCI Convenience Receptacles, 125 V, 20 A:
 - 1. Products: Subject to compliance with requirements, provide one of the following:
 - a. Cooper; GF20.
 - b. Pass & Seymour; 2084.

2.4 TWIST-LOCKING RECEPTACLES

- A. Single Convenience Receptacles, 125 V, 20 A: Comply with NEMA WD 1, NEMA WD 6 configuration L5-20R, and UL 498.
 - 1. Products: Subject to compliance with requirements, provide one of the following:
 - a. Cooper; L520R.
 - b. Hubbell; HBL2310.
 - c. Leviton; 2310.
 - d. Pass & Seymour; L520-R.

2.5 CORD AND PLUG SETS

- A. Description: Match voltage and current ratings and number of conductors to requirements of equipment being connected.
 - 1. Cord: Rubber-insulated, stranded-copper conductors, with Type SOW-A jacket; with green-insulated grounding conductor and equipment-rating ampacity plus a minimum of 30 percent.

2.6 SNAP SWITCHES

- A. Comply with NEMA WD 1 and UL 20.
- B. Switches, 120/277 V, 20 A:
 - 1. Products: Subject to compliance with requirements, provide one of the following:
 - a. Cooper; 2221 (single pole), 2222 (two pole), 2223 (three way), 2224 (four way).
 - b. Hubbell; CS1221 (single pole), CS1222 (two pole), CS1223 (three way), CS1224 (four way).
 - c. Leviton; 1221-2 (single pole), 1222-2 (two pole), 1223-2 (three way), 1224-2 (four way).
 - d. Pass & Seymour; 20AC1 (single pole), 20AC2 (two pole), 20AC3 (three way), 20AC4 (four way).
- C. Pilot Light Switches, 20 A:
 - 1. Products: Subject to compliance with requirements, provide one of the following:

- a. Cooper; 2221PL for 120 V and 277 V.
 - b. Hubbell; HPL1221PL for 120 V and 277 V.
 - c. Leviton; 1221-PLR for 120 V, 1221-7PLR for 277 V.
 - d. Pass & Seymour; PS20AC1-PLR for 120 V.
 - 2. Description: Single pole, with neon-lighted handle, illuminated when switch is "ON."
- D. Key-Operated Switches, 120/277 V, 20 A:
- 1. Products: Subject to compliance with requirements, provide one of the following:
 - a. Cooper; 2221L.
 - b. Hubbell; HBL1221L.
 - c. Leviton; 1221-2L.
 - d. Pass & Seymour; PS20AC1-L.
 - 2. Description: Single pole, with factory-supplied key in lieu of switch handle.
- E. Single-Pole, Double-Throw, Momentary Contact, Center-Off Switches, 120/277 V, 20 A; for use with mechanically held lighting contactors.
- 1. Products: Subject to compliance with requirements, provide one of the following:
 - a. Cooper; 1995.
 - b. Hubbell; HBL1557.
 - c. Leviton; 1257.
 - d. Pass & Seymour; 1251.

2.7 OCCUPANCY SENSORS

- A. Wall-Switch Sensors:
- 1. Products: Subject to compliance with requirements, provide one of the following:
 - a. Hubbell; WS1277.
 - b. Watt Stopper (The); WS-200.
 - c. Sensor Switch
 - 2. Description: Passive-infrared type, 120/277 V, adjustable time delay up to 30 minutes, 180-degree field of view, with a minimum coverage area of 900 sq. ft. (84 sq. m).
- B. Wall-Switch Sensors:
- 1. Products: Subject to compliance with requirements, provide one of the following:
 - a. Hubbell; AT120 for 120 V, AT277 for 277 V.
 - b. Leviton; ODS 15-ID.
 - c. Sensor Switch
 - 2. Description: Adaptive-technology type, 120/277 V, adjustable time delay up to 20 minutes, 180-degree field of view, with a minimum coverage area of 900 sq. ft. (84 sq. m).
- C. Long-Range Wall-Switch Sensors:
- 1. Products: Subject to compliance with requirements, provide one of the following:

- a. Hubbell; ATP1600WRP.
 - b. Leviton; ODWWV-IRW.
 - c. Pass & Seymour; WA1001.
 - d. Watt Stopper (The); CX-100.
 - e. Sensor Switch
2. Description: Passive-infrared type, 120/277 V, adjustable time delay up to 30 minutes, 110-degree field of view, with a minimum coverage area of 1200 sq. ft. (111 sq. m).
- D. Long-Range Wall-Switch Sensors:
- 1. Products: Subject to compliance with requirements, provide one of the following:
 - a. Hubbell; ATD1600WRP.
 - b. Leviton; ODW12-MRW.
 - c. Watt Stopper (The); DT-200.
 - d. Sensor Switch
 - 2. Description: Dual technology, with both passive-infrared- and ultrasonic-type sensing, 120/277 V, adjustable time delay up to 30 minutes, 110-degree field of view, and a minimum coverage area of 1200 sq. ft. (111 sq. m).
- E. Wide-Range Wall-Switch Sensors:
- 1. Products: Subject to compliance with requirements, provide one of the following:
 - a. Hubbell; ATP120HBRP.
 - b. Leviton; ODWHB-IRW.
 - c. Pass & Seymour; HS1001.
 - d. Watt Stopper (The); CX-100-3.
 - e. Sensor Switch
 - 2. Description: Passive-infrared type, 120/277 V, adjustable time delay up to 30 minutes, 150-degree field of view, with a minimum coverage area of 1200 sq. ft. (111 sq. m).

2.8 COMMUNICATIONS OUTLETS

A. Telephone Outlet:

- 1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
 - a. As noted in spec section 27 “communications cabling”
- 2. Description: Single RJ-45 jack for terminating 100-ohm, balanced, four-pair UTP; TIA/EIA-568-B.1; complying with Category 5e. Comply with UL 1863.

2.9 WALL PLATES

- A. All wall plates for power and communications to match and meet the requirements listed within this specification.
- B. Single and combination types to match corresponding wiring devices.

1. Plate-Securing Screws: Metal with head color to match plate finish.
 2. Material for Finished Spaces: 0.035-inch- (1-mm-) thick, nylon cover plate, white (to match existing cover plates in the school).
 3. Material for Unfinished Spaces: Galvanized steel.
 4. Material for Damp Locations: Cast aluminum with spring-loaded lift cover, and listed and labeled for use in "wet locations."
- C. Wet-Location, Weatherproof Cover Plates: NEMA 250, complying with type 3R weather-resistant , die-cast aluminum with lockable cover.

2.10 FLOOR SERVICE FITTINGS

- A. Type: Modular, flush-type, dual-service units suitable for wiring method used.
- B. Compartments: Barrier separates power from voice and data communication cabling.
- C. Service Plate: Rectangular with satin finish – as noted on drawings.
- D. Power Receptacle: NEMA WD 6 configuration 5-20R, gray finish, unless otherwise indicated.
- E. Voice and Data Communication Outlet: as noted in specification section 27 “communications cabling”.

2.11 FINISHES

- A. Color: Wiring device catalog numbers in Section Text do not designate device color.
 1. Wiring Devices Connected to Normal Power System: White, (to match existing devices in school) unless otherwise indicated or required by NFPA 70 or device listing.
 2. TVSS Devices: Blue.
 3. Isolated-Ground Receptacles: Orange with orange triangle on face.

PART 3 - EXECUTION

3.1 PRODUCTION INSPECTIONS

- A. Installation approval by owner is required at each phase of construction as noted below. Proceeding without owner approval may result in rejection of work and/or installation and result in the contractor removing newly installed raceway, boxes, cables, racks, and etc (all system components).
 1. Submittal documents (shop drawings).
 2. Substitution requests.
 3. Raceway Rough-in.
 4. Equipment location and installation.
 5. Grounding.
 6. Wiring installation.
 7. Terminations at Electrical equipment.

8. Installation of faceplates.

3.2 INSTALLATION

- A. Comply with NECA 1, including the mounting heights listed in that standard, unless otherwise noted.
- B. Coordination with Other Trades:
 1. Take steps to insure that devices and their boxes are protected. Do not place wall finish materials over device boxes and do not cut holes for boxes with routers that are guided by riding against outside of the boxes.
 2. Keep outlet boxes free of plaster, drywall joint compound, mortar, cement, concrete, dust, paint, and other material that may contaminate the raceway system, conductors, and cables.
 3. Install device boxes in brick or block walls so that the cover plate does not cross a joint unless the joint is troweled flush with the face of the wall.
 4. Install wiring devices after all wall preparation, including painting, is complete.
- C. Conductors:
 1. Do not strip insulation from conductors until just before they are spliced or terminated on devices.
 2. Strip insulation evenly around the conductor using tools designed for the purpose. Avoid scoring or nicking of solid wire or cutting strands from stranded wire.
 3. The length of free conductors at outlets for devices shall meet provisions of NFPA 70, Article 300, without pigtails.
 4. Existing Conductors:
 - a. Cut back and pigtail, or replace all damaged conductors.
 - b. Straighten conductors that remain and remove corrosion and foreign matter.
 - c. Pigtailling existing conductors is permitted provided the outlet box is large enough.
- D. Device Installation:
 1. Replace all devices that have been in temporary use during construction or that show signs that they were installed before building finishing operations were complete.
 2. Keep each wiring device in its package or otherwise protected until it is time to connect conductors.
 3. Do not remove surface protection, such as plastic film and smudge covers, until the last possible moment.
 4. Connect devices to branch circuits using pigtails that are not less than 6 inches (152 mm) in length.
 5. When there is a choice, use side wiring with binding-head screw terminals. Wrap solid conductor tightly clockwise, 2/3 to 3/4 of the way around terminal screw.
 6. Use a torque screwdriver when a torque is recommended or required by the manufacturer.
 7. When conductors larger than No. 12 AWG are installed on 15- or 20-A circuits, splice No. 12 AWG pigtails for device connections.
 8. Tighten unused terminal screws on the device.

9. When mounting into metal boxes, remove the fiber or plastic washers used to hold device mounting screws in yokes, allowing metal-to-metal contact.
- E. Receptacle Orientation:
1. Install ground pin of vertically mounted receptacles down, and on horizontally mounted receptacles to the right.
- F. Device Plates: Do not use oversized or extra-deep plates. Repair wall finishes and remount outlet boxes when standard device plates do not fit flush or do not cover rough wall opening.
- G. Dimmers:
1. Install dimmers within terms of their listing.
 2. Verify that dimmers used for fan speed control are listed for that application.
 3. Install unshared neutral conductors on line and load side of dimmers according to manufacturers' device listing conditions in the written instructions.
- H. Arrangement of Devices: Unless otherwise indicated, mount flush, with long dimension vertical and with grounding terminal of receptacles on top. Group adjacent switches under single, multigang wall plates.
- I. Adjust locations of floor service outlets and service poles to suit arrangement of partitions and furnishings.

3.3 IDENTIFICATION

- A. Comply with Division 26 Section "Identification for Electrical Systems."
1. Receptacles: Identify panelboard and circuit number from which served. Use hot, stamped or engraved machine printing with black-filled lettering on face of plate, and durable wire markers or tags inside outlet boxes.

3.4 FIELD QUALITY CONTROL

- A. Perform tests and inspections and prepare test reports.
1. In healthcare facilities, prepare reports that comply with recommendations in NFPA 99.
 2. Test Instruments: Use instruments that comply with UL 1436.
 3. Test Instrument for Convenience Receptacles: Digital wiring analyzer with digital readout or illuminated LED indicators of measurement.
- B. Tests for Convenience Receptacles:
1. Line Voltage: Acceptable range is 105 to 132 V.
 2. Percent Voltage Drop under 15-A Load: A value of 6 percent or higher is not acceptable.
 3. Ground Impedance: Values of up to 2 ohms are acceptable.
 4. GFCI Trip: Test for tripping values specified in UL 1436 and UL 943.
 5. Using the test plug, verify that the device and its outlet box are securely mounted.

6. The tests shall be diagnostic, indicating damaged conductors, high resistance at the circuit breaker, poor connections, inadequate fault current path, defective devices, or similar problems. Correct circuit conditions, remove malfunctioning units and replace with new ones, and retest as specified above.

END OF SECTION 262726

SECTION 262816 - ENCLOSED SWITCHES AND CIRCUIT BREAKERS

PART 1 - GENERAL

1.1 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.

1.2 SUMMARY

- A. Section Includes:
 - 1. Fusible switches.
 - 2. Nonfusible switches.
 - 3. Receptacle switches.
 - 4. Shunt trip switches.
 - 5. Molded-case circuit breakers (MCCBs).
 - 6. Molded-case switches.
 - 7. Enclosures.

1.3 DEFINITIONS

- A. NC: Normally closed.
- B. NO: Normally open.
- C. SPDT: Single pole, double throw.

1.4 PERFORMANCE REQUIREMENTS

- A. Seismic Performance: Enclosed switches and circuit breakers shall withstand the effects of earthquake motions determined according to ASCE/SEI 7.
 - 1. The term "withstand" means "the unit will remain in place without separation of any parts from the device when subjected to the seismic forces specified and the unit will be fully operational after the seismic event."

1.5 SUBMITTALS

- A. Product Data: For each type of enclosed switch, circuit breaker, accessory, and component indicated. Include dimensioned elevations, sections, weights, and manufacturers' technical data on features, performance, electrical characteristics, ratings, accessories, and finishes.
 - 1. Enclosure types and details for types other than NEMA 250, Type 1.

2. Current and voltage ratings.
 3. Short-circuit current ratings (interrupting and withstand, as appropriate).
 4. Include evidence of NRTL listing for series rating of installed devices.
 5. Detail features, characteristics, ratings, and factory settings of individual overcurrent protective devices, accessories, and auxiliary components.
 6. Include time-current coordination curves (average melt) for each type and rating of overcurrent protective device; include selectable ranges for each type of overcurrent protective device.
- B. Shop Drawings: For enclosed switches and circuit breakers. Include plans, elevations, sections, details, and attachments to other work.
1. Wiring Diagrams: For power, signal, and control wiring.
- C. Operation and Maintenance Data: For enclosed switches and circuit breakers to include in emergency, operation, and maintenance manuals. In addition to items specified in Division 01 Section "Operation and Maintenance Data," include the following:
1. Manufacturer's written instructions for testing and adjusting enclosed switches and circuit breakers.
 2. Time-current coordination curves (average melt) for each type and rating of overcurrent protective device; include selectable ranges for each type of overcurrent protective device.

1.6 QUALITY ASSURANCE

- A. Source Limitations: Obtain enclosed switches and circuit breakers, overcurrent protective devices, components, and accessories, within same product category, from single source from single manufacturer.
- B. Product Selection for Restricted Space: Drawings indicate maximum dimensions for enclosed switches and circuit breakers, including clearances between enclosures, and adjacent surfaces and other items. Comply with indicated maximum dimensions.
- C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- D. Comply with NFPA 70.

1.7 PROJECT CONDITIONS

- A. Environmental Limitations: Rate equipment for continuous operation under the following conditions unless otherwise indicated:
 1. Ambient Temperature: Not less than minus 22 deg F (minus 30 deg C) and not exceeding 104 deg F (40 deg C).
 2. Altitude: Not exceeding 6600 feet (2010 m).

1.8 COORDINATION

- A. Coordinate layout and installation of switches, circuit breakers, and components with equipment served and adjacent surfaces. Maintain required workspace clearances and required clearances for equipment access doors and panels.

PART 2 - PRODUCTS

2.1 FUSIBLE SWITCHES

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Eaton Electrical Inc.; Cutler-Hammer Business Unit.
 - 2. General Electric Company; GE Consumer & Industrial - Electrical Distribution.
 - 3. Siemens Energy & Automation, Inc.
 - 4. Square D; a brand of Schneider Electric.
- B. Type HD, Heavy Duty, Single Throw, 240-V ac, 1200 A and Smaller: UL 98 and NEMA KS 1, horsepower rated, with clips or bolt pads to accommodate specified fuses, lockable handle with capability to accept three padlocks, and interlocked with cover in closed position.
- C. Accessories:
 - 1. Equipment Ground Kit: Internally mounted and labeled for copper and aluminum ground conductors.
 - 2. Neutral Kit: Internally mounted; insulated, capable of being grounded and bonded; labeled for copper and aluminum neutral conductors.
 - 3. Class R Fuse Kit: Provides rejection of other fuse types when Class R fuses are specified.
 - 4. Lugs: Mechanical type, suitable for number, size, and conductor material.

2.2 NONFUSIBLE SWITCHES

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Eaton Electrical Inc.; Cutler-Hammer Business Unit.
 - 2. General Electric Company; GE Consumer & Industrial - Electrical Distribution.
 - 3. Siemens Energy & Automation, Inc.
 - 4. Square D; a brand of Schneider Electric.
- B. Type HD, Heavy Duty, Single Throw, 240-V ac, 1200 A and Smaller: UL 98 and NEMA KS 1, horsepower rated, lockable handle with capability to accept three padlocks, and interlocked with cover in closed position.
- C. Accessories:

1. Equipment Ground Kit: Internally mounted and labeled for copper and aluminum ground conductors.
2. Neutral Kit: Internally mounted; insulated, capable of being grounded and bonded; labeled for copper and aluminum neutral conductors.
3. Lugs: Mechanical type, suitable for number, size, and conductor material.

2.3 MOLDED-CASE CIRCUIT BREAKERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 1. Eaton Electrical Inc.; Cutler-Hammer Business Unit.
 2. General Electric Company; GE Consumer & Industrial - Electrical Distribution.
 3. Siemens Energy & Automation, Inc.
 4. Square D; a brand of Schneider Electric.
- B. General Requirements: Comply with UL 489, NEMA AB 1, and NEMA AB 3, with interrupting capacity to comply with available fault currents.
- C. Thermal-Magnetic Circuit Breakers: Inverse time-current element for low-level overloads and instantaneous magnetic trip element for short circuits. Adjustable magnetic trip setting for circuit-breaker frame sizes 250 A and larger.
- D. Adjustable, Instantaneous-Trip Circuit Breakers: Magnetic trip element with front-mounted, field-adjustable trip setting.
- E. Current-Limiting Circuit Breakers: Frame sizes 400 A and smaller, and let-through ratings less than NEMA FU 1, RK-5.
- F. Ground-Fault, Circuit-Interrupter (GFCI) Circuit Breakers: Single- and two-pole configurations with Class A ground-fault protection (6-mA trip).
- G. Ground-Fault, Equipment-Protection (GFEP) Circuit Breakers: With Class B ground-fault protection (30-mA trip).
- H. Features and Accessories:
 1. Standard frame sizes, trip ratings, and number of poles.
 2. Lugs: Mechanical type, suitable for number, size, trip ratings, and conductor material.
 3. Application Listing: Appropriate for application; Type SWD for switching fluorescent lighting loads; Type HID for feeding fluorescent and high-intensity discharge lighting circuits.
 4. Ground-Fault Protection: Comply with UL 1053; integrally mounted, self-powered type with mechanical ground-fault indicator; relay with adjustable pickup and time-delay settings, push-to-test feature, internal memory, and shunt trip unit; and three-phase, zero-sequence current transformer/sensor.

2.4 ENCLOSURES

- A. Enclosed Switches and Circuit Breakers: NEMA AB 1, NEMA KS 1, NEMA 250, and UL 50, to comply with environmental conditions at installed location.
 - 1. Indoor, Dry and Clean Locations: NEMA 250, Type 1.
 - 2. Outdoor Locations: NEMA 250, Type 3R.
 - 3. Kitchen or Wash-Down Areas: NEMA 250, Type 4X, stainless steel.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine elements and surfaces to receive enclosed switches and circuit breakers for compliance with installation tolerances and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install individual wall-mounted switches and circuit breakers with tops at uniform height unless otherwise indicated.
- B. Comply with mounting and anchoring requirements specified in Division 26 Section "Vibration and Seismic Controls for Electrical Systems."
- C. Temporary Lifting Provisions: Remove temporary lifting eyes, channels, and brackets and temporary blocking of moving parts from enclosures and components.
- D. Install fuses in fusible devices.
- E. Comply with NECA 1.

3.3 IDENTIFICATION

- A. Comply with requirements in Division 26 Section "Identification for Electrical Systems."
 - 1. Identify field-installed conductors, interconnecting wiring, and components; provide warning signs.
 - 2. Label each enclosure with engraved metal or laminated-plastic nameplate.

END OF SECTION 262816

ALSEA SCHOOL DISTRICT

K-12 BUILDING HVAC UPGRADE BID & PERMIT ISSUE

PHASE 1c.9 / 2c.22

ISSUE: 9-21-22

SHEET SCHEDULE:

- A0.0 Cover Sheet
- ARCHITECTURAL**
- A0.1 Scope of Work Site Plan
- A2.1 Floor Plan - Overall
- A3.1 Roof Plan - Overall
- A7.1 Sections - Gymnasium
- A7.2 Sections - Typical Classroom
- ELECTRICAL**
- E0.0 Electrical Symbols & Sheet Index
- E2.0D Electrical Demolition Plan
- E2.0M Electrical Power Plan - Overall
- E2.0R Electrical Roof Plan
- E3.0 One Line Project Diagram
- E3.1 Electrical Schedules
- MECHANICAL**
- M0.0 Mechanical Cover Sheet & Schedules
- M0.1 Mechanical Unit Schedules
- M0.2 Load Calculations & Energy Analysis
- M1.1 Main Level Mechanical Plan
- M1.2 Lower Level & Roof Mechanical Plan
- M2.1 Mechanical & Roof Details
- M3.1 Mechanical Specifications



301 SOUTH 3rd STREET
 ALSEA, OREGON 97324
ALSEA SCHOOL DISTRICT
1c9-2c22: K-12 BUILDING HVAC UPGRADE

PROJECT SCOPE NARRATIVE:

This project will include HVAC upgrades to the existing K-12 building for the Alsea School District. Currently the K-12 building is heated by an end of life fuel oil boiler. The existing shop and technology classroom has an updated HVAC system and will not be included in this project. Demolition of the boiler, boiler room, and associated existing heating system components (radiators, wall units, etc.) will not be part of this project.

The new scope of work will include removal and replacement of the gymnasium RTU & associated ducting, and installation of Mini-split units (Fan coil & heat pump units) at classrooms and ancillary spaces as defined on the drawings.

Please note that the School campus is undergoing a building wide power upgrade which includes new panels and utility transformer. Electrical work shown on the drawings indicate scope of power work as they relate to this and other ongoing projects.



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DEFERRED SUBMITTALS:

1. None

VICINITY MAP:



OWNER:



Address:

ALSEA SCHOOL DISTRICT
 301 SOUTH 3rd STREET
 ALSEA, OREGON 97324

CONSTRUCTION MANAGER (CM/GC):



Address:

CB Construction
 1202 Adams Avenue
 LaGrande, Oregon 97850

Contact:

Derek Howard
 Office: 541.786.5315
 Email: dhoward@cbconst.us

ARCHITECT:



Address:

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 Suite 102
 Boise, Idaho 83709

Contact:

Scott Marshall, AIA - NCARB, Principal
 Office: 208.991.0855
 Email: Scott@Straightline.biz

ELECTRICAL ENGINEER:



Address:

E2CO
 800 S. Industry Way, Suite 350
 Meridian, Idaho 83642

Contact:

Jon Van Stone, PE, Principal
 Office: 208-378-4450
 Email: jvanstone@e2co.com

MECHANICAL ENGINEER:



Address:

VALUE ENGINEERING INC.
 1406 N. Main Street, Suite 107
 Meridian, ID 83642

Contact:

Tyson McFall, P.E., Principal
 Office: 208-703-9440
 Email: Tyson@v-engineering.com

STRUCTURAL ENGINEER:

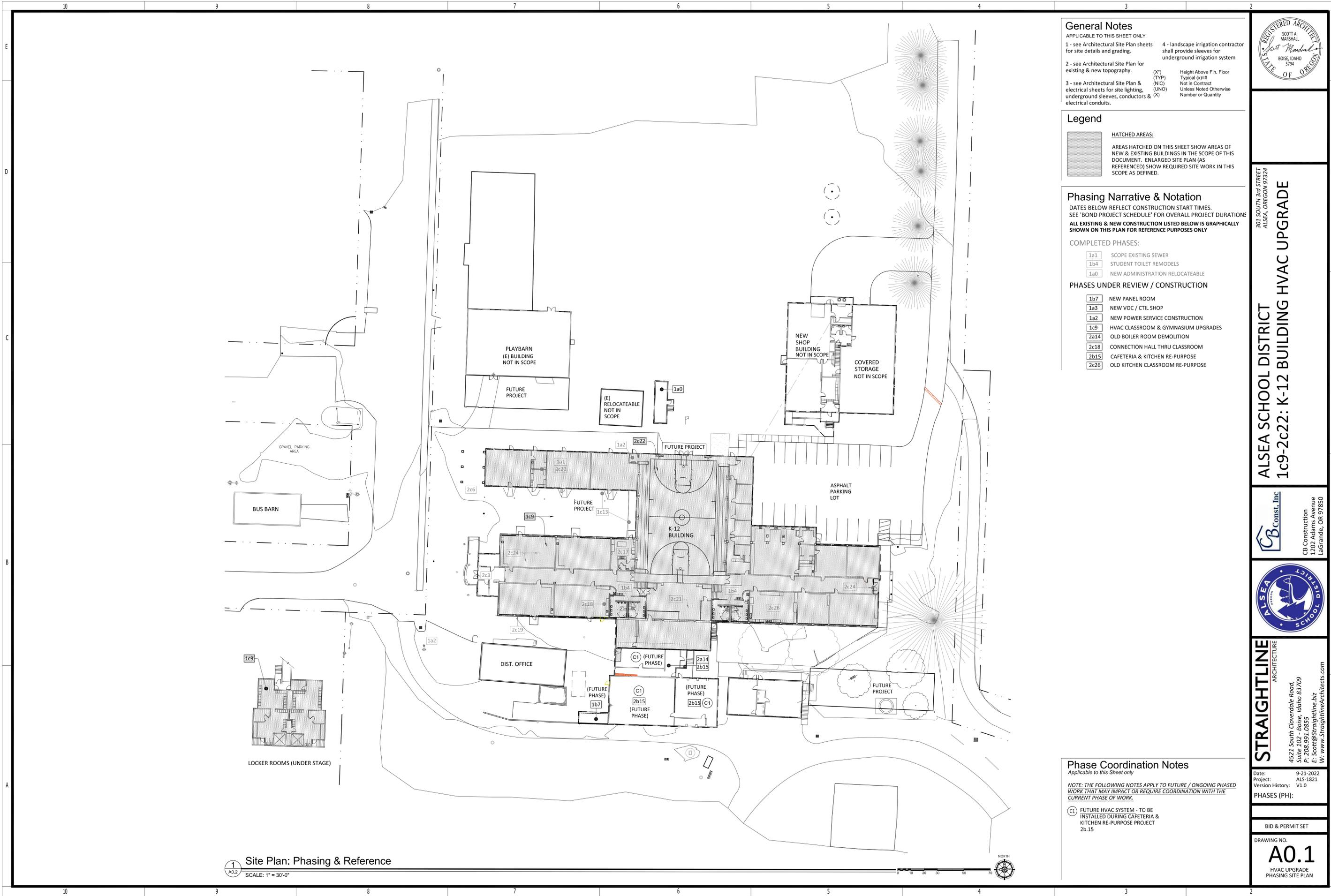


Address:

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Contact:

Derek Howard
 Office: 541.786.5315
 Email: dhoward@cbconst.us



General Notes
 APPLICABLE TO THIS SHEET ONLY
 1 - see Architectural Site Plan sheets for site details and grading.
 2 - see Architectural Site Plan for existing & new topography.
 3 - see Architectural Site Plan & electrical sheets for site lighting, underground sleeves, conductors & electrical conduits.
 4 - landscape irrigation contractor shall provide sleeves for underground irrigation system

Legend
 HATCHED AREAS:
 AREAS HATCHED ON THIS SHEET SHOW AREAS OF NEW & EXISTING BUILDINGS IN THE SCOPE OF THIS DOCUMENT. ENLARGED SITE PLAN (AS REFERENCED) SHOW REQUIRED SITE WORK IN THIS SCOPE AS DEFINED.

Phasing Narrative & Notation
 DATES BELOW REFLECT CONSTRUCTION START TIMES. SEE 'BOND PROJECT SCHEDULE' FOR OVERALL PROJECT DURATIONS
ALL EXISTING & NEW CONSTRUCTION LISTED BELOW IS GRAPHICALLY SHOWN ON THIS PLAN FOR REFERENCE PURPOSES ONLY

COMPLETED PHASES:

- 1a1 SCOPE EXISTING SEWER
- 1b4 STUDENT TOILET REMODELS
- 1a0 NEW ADMINISTRATION RELOCATEABLE

PHASES UNDER REVIEW / CONSTRUCTION

- 1b7 NEW PANEL ROOM
- 1a3 NEW VOC / CTIL SHOP
- 1a2 NEW POWER SERVICE CONSTRUCTION
- 1c9 HVAC CLASSROOM & GYMNASIUM UPGRADES
- 2a14 OLD BOILER ROOM DEMOLITION
- 2c18 CONNECTION HALL THRU CLASSROOM
- 2b15 CAFETERIA & KITCHEN RE-PURPOSE
- 2c26 OLD KITCHEN CLASSROOM RE-PURPOSE

Phase Coordination Notes
 Applicable to this Sheet only
 NOTE: THE FOLLOWING NOTES APPLY TO FUTURE / ONGOING PHASED WORK THAT MAY IMPACT OR REQUIRE COORDINATION WITH THE CURRENT PHASE OF WORK.

- (C) FUTURE HVAC SYSTEM - TO BE INSTALLED DURING CAFETERIA & KITCHEN RE-PURPOSE PROJECT 2b.15



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ALSEA SCHOOL DISTRICT
1c9-2c22: K-12 BUILDING HVAC UPGRADE



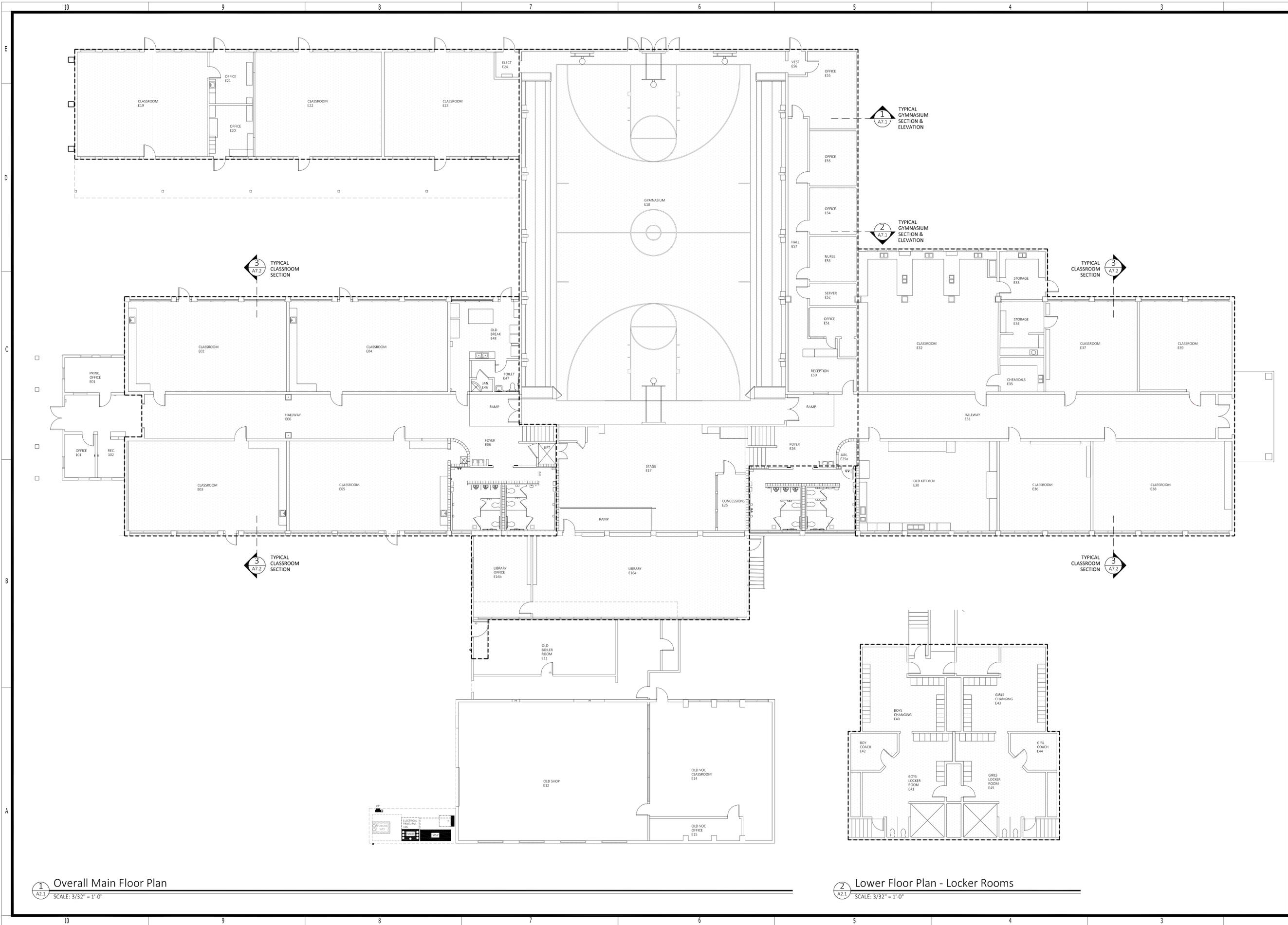
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Date: 9-21-2022
 Project: ALS-1821
 Version History: V1.0
PHASES (PH):

BID & PERMIT SET

DRAWING NO.
A0.1
 HVAC UPGRADE
 PHASING SITE PLAN

1
 A0.2
 Site Plan: Phasing & Reference
 SCALE: 1" = 30'-0"



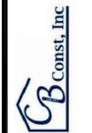
1 Overall Main Floor Plan
 A2.1 SCALE: 3/32" = 1'-0"

2 Lower Floor Plan - Locker Rooms
 A2.1 SCALE: 3/32" = 1'-0"



301 SOUTH 3rd STREET
 ALSEA, OREGON 97124

**ALSEA SCHOOL DISTRICT
 1C9-2C22: K-12 BUILDING HVAC UPGRADE**



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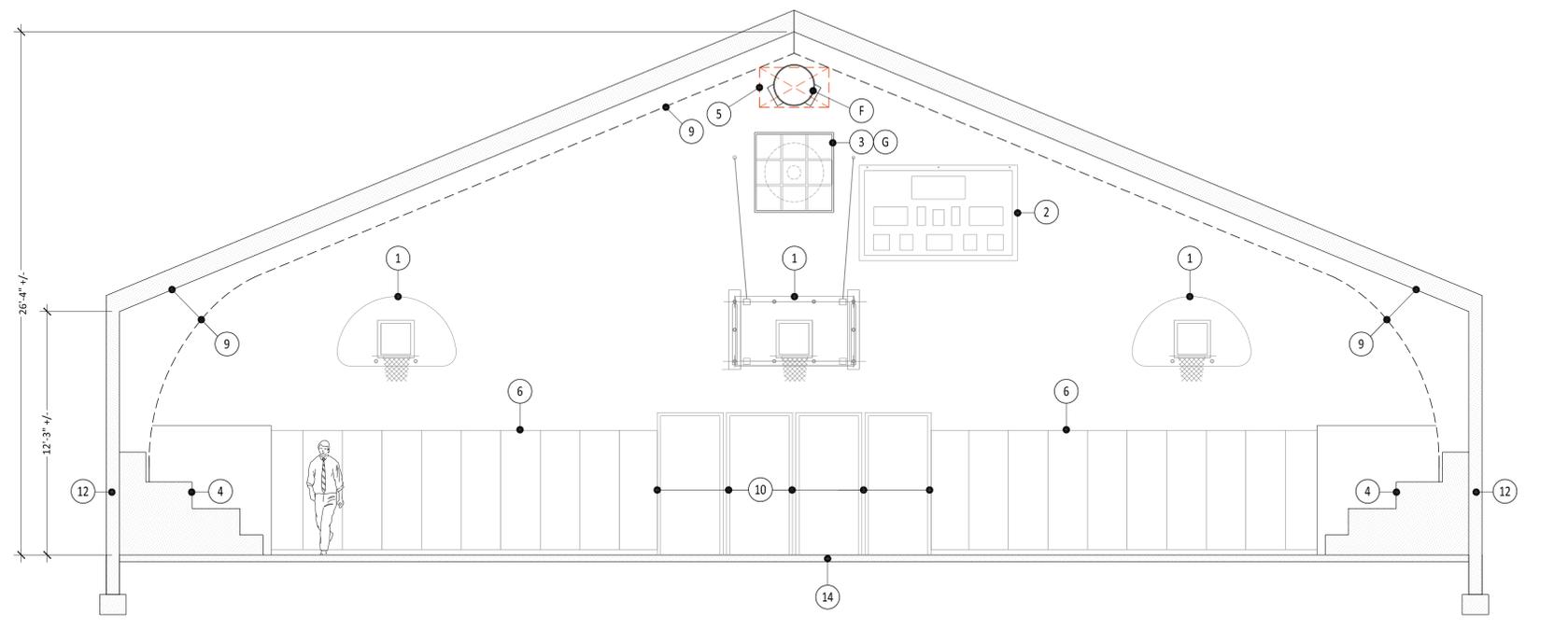
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 Version History: V1.0
 PHASES (PH):

BID & PERMIT SET

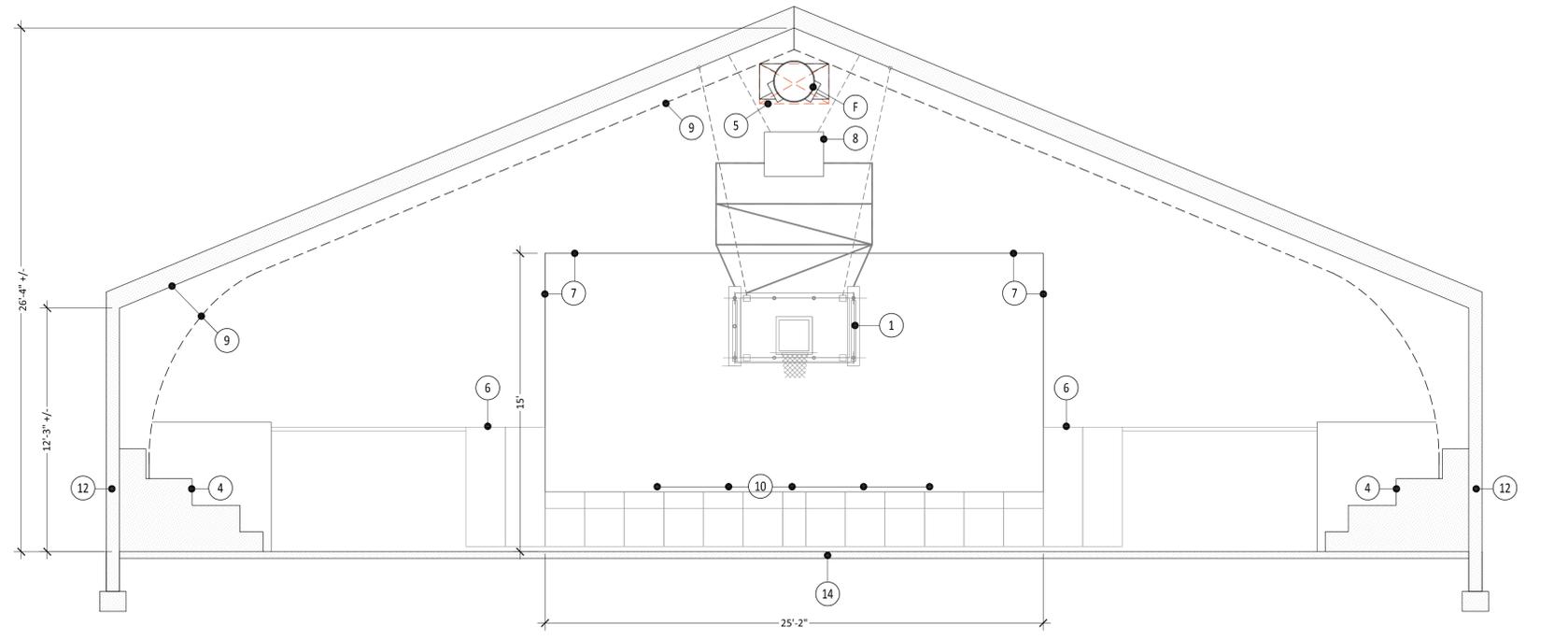
DRAWING NO.

A2.1

OVERALL FLOOR PLAN



1 North Gymnasium Section / Interior Elevation
SCALE: 1/4" = 1'-0"



2 South Gymnasium Section / Interior Elevation
SCALE: 1/4" = 1'-0"



General Notes

- BUILDING ELEMENTS NOT NOTATED SHALL REMAIN UNDISTURBED.
- ANY CHANGES OR MODIFICATIONS TO THE PROJECT DURING CONSTRUCTION SHALL BE APPROVED BY ARCHITECT PRIOR TO WORK BEING DONE, AND SHALL BE RECORDED ON THE CONTRACTOR'S AS-BUILT DRAWINGS.
- THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK ENVIRONMENT AS STATED IN THE PROJECT MANUAL.
- THE CONTRACTOR SHALL PAY FOR AND INCLUDE IN HIS BID ALL REQUIRED CONSTRUCTION PERMITS EXCEPT FOR THE OVERALL BUILDING PERMIT WHICH SHALL BE PAID BY THE OWNER.

GENERAL ABBREVIATIONS:

(N)	New
(D)	Demolish
(E)	Existing
(X*)	Height Above Fin. Floor
(TYP)	Typical [x]#
(NIC)	Not in Contract
(UNO)	Unless Noted Otherwise
(X)	Number or Quantity

KEYED / REFERENCE NOTE
 (XX) REFERENCE NOTE
 (X) DETAIL REFERENCE NOTE
 (X) BUILDING SECTION NOTE

Reference Notes *Applicable to this Sheet Only*

NOTE: DEMOLITION SHOWN IS PRESCRIPTIVE IN NATURE - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL REQUIRED DEMOLITION TO ACCOMPLISH THE COMPLETED NEW OR REMODELED CONDITION SHOWN ON THE PROJECT DOCUMENTS.

- | EXISTING & DEMOLITION | NEW & RENNOVATED |
|--|--|
| 1 (E) BASKETBALL HOOPS - DO NOT DISTURB | A (N) ROOF TOP CONDENSERS - WITH UNIT STANDS, SEE MECHANICAL PLANS |
| 2 (E) SCOREBOARD - DO NOT DISTURB | B (N) HVAC HEAD UNITS - AS SHOWN, LOCATE AND MOUNT AS PER MECHANICAL SHEETS. |
| 3 (E) EXHAUST FAN - DO NOT DISTURB, CONFIGURE NEW CONTROLS AS PER MECH. DRAWINGS. | C (N) HVAC LINE SETS - LOCATE AS PER MECHANICAL SHEETS |
| 4 (E) LINE OF BLEACHERS - DO NOT DISTURB | D (N) CONDENSATE LINE - MOUNT ALONG WALL, SLOPE 1/8" TYP. TO EXTERIOR WALL |
| 5 (D) HVAC DUCT - DEMOLISH EXISTING GYMNASIUM DUCT & READY FOR REPLACEMENT, SEE MECHANICAL DRAWINGS. | E CORE DRILL CONC. WALL - AS SHOWN / REQUIRED FOR CONDENSATE LINE, CAULK IN PLACE |
| 6 (E) WALL PADS - DO NOT DISTURB | F (N) MAIN DUCT - MOUNT TIGHT TO STRUCTURE, AT GYM, SEE MECHANICAL PLANS FOR CONFIGURATION |
| 7 (E) STAGE OPENING - AS GRAPHICALLY SHOWN. | G (N) INTERLOCKED CONTROLS - AT EXISTING FAN, SEE MECHANICAL PLANS |
| 8 (E) SPEAKER - CEILING HUNG, REMOVE AND REINSTALL AS REQUIRED FOR NEW HVAC WORK. | H (N) ROOFING PENETRATION - PROVIDE BOOT AND OR CAP AS REQUIRED FOR ROOFING TYPE. |
| 9 (E) LINE OF ROOF STRUCTURE - AS GRAPHICALLY SHOWN. | |
| 10 (E) EXTERIOR DOORS - AS GRAPHICALLY SHOWN. | |
| 11 (E) WINDOWS - DO NOT DISTURB | |
| 12 (E) WALLS - CAST IN PLACE CONCRETE, AS SHOWN | |
| 13 (E) ROOF STRUCTURE - WOOD MAIN BEAMS & WOOD PURLINS, AS SHOWN. | |
| 14 (E) FLOOR SLAB - AS SHOWN | |



301 SOUTH 3rd STREET
 ALSEA, OREGON 97324

ALSEA SCHOOL DISTRICT
1c9-2c22: K-12 BUILDING HVAC UPGRADE

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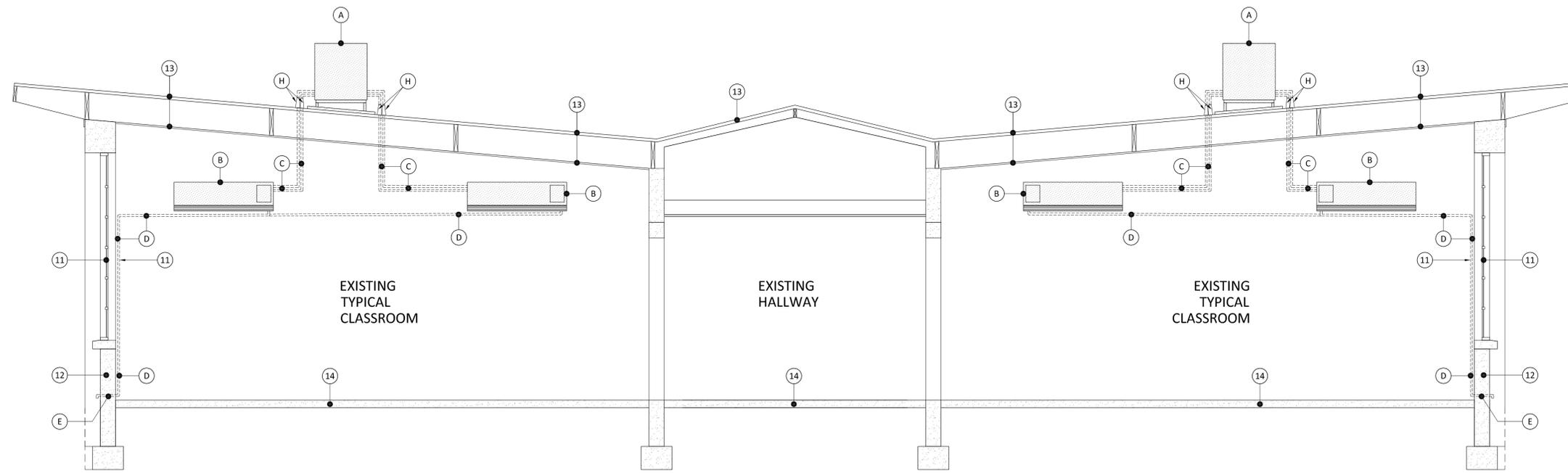
PHASES (PH):

BID & PERMIT SET

DRAWING NO.

A7.1

WALL SECTIONS & INTERIOR ELEVATIONS AT GYMNASIUM



3 Typical Classroom Section
 A7.2 SCALE: 3/8" = 1'-0"

General Notes

1. BUILDING ELEMENTS NOT NOTATED SHALL REMAIN UNDISTURBED.
 2. ANY CHANGES OR MODIFICATIONS TO THE PROJECT DURING CONSTRUCTION SHALL BE APPROVED BY ARCHITECT PRIOR TO WORK BEING DONE, AND SHALL BE RECORDED ON THE CONTRACTOR'S AS-BUILT DRAWINGS.
 3. THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK ENVIRONMENT AS STATED IN THE PROJECT MANUAL.
 4. THE CONTRACTOR SHALL PAY FOR AND INCLUDE IN HIS BID ALL REQUIRED CONSTRUCTION FEES EXCEPT FOR THE OVERALL BUILDING PERMIT WHICH SHALL BE PAID BY THE OWNER.
- GENERAL ABBREVIATIONS:
- | | |
|-------|-------------------------|
| (N) | New |
| (D) | Demolish |
| (E) | Existing |
| (X*) | Height Above Fin. Floor |
| (TYP) | Typical [x]# |
| (NIC) | Not in Contract |
| (UNO) | Unless Noted Otherwise |
| (X) | Number or Quantity |
- KEYED / REFERENCE NOTE
 (XX)
 (X)
 (X)
 (X)
- DETAIL REFERENCE NOTE
 (X)
 (X)
- BUILDING SECTION NOTE
 (X)
 (X)

Reference Notes

NOTE: DEMOLITION SHOWN IS PRESCRIPTIVE IN NATURE - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL REQUIRED DEMOLITION TO ACCOMPLISH THE COMPLETED NEW OR REMODELED CONDITION SHOWN ON THE PROJECT DOCUMENTS.

EXISTING & DEMOLITION

- 1 (E) BASKETBALL HOOPS - DO NOT DISTURB
- 2 (E) SCOREBOARD - DO NOT DISTURB
- 3 (E) EXHAUST FAN - DO NOT DISTURB, CONFIGURE NEW CONTROLS AS PER MECH. DRAWINGS.
- 4 (E) LINE OF BLEACHERS - DO NOT DISTURB
- 5 (D) HVAC DUCT - DEMOLISH EXISTING GYMNASIUM DUCT & READY FOR REPLACEMENT, SEE MECHANICAL DRAWINGS.
- 6 (E) WALL PADS - DO NOT DISTURB
- 7 (E) STAGE OPENING - AS GRAPHICALLY SHOWN.
- 8 (E) SPEAKER - CEILING HUNG, REMOVE AND REINSTALL AS REQUIRED FOR NEW HVAC WORK.
- 9 (E) LINE OF ROOF STRUCTURE - AS GRAPHICALLY SHOWN.
- 10 (E) EXTERIOR DOORS - AS GRAPHICALLY SHOWN.
- 11 (E) WINDOWS - DO NOT DISTURB
- 12 (E) WALLS - CAST IN PLACE CONCRETE, AS SHOWN
- 13 (E) ROOF STRUCTURE - WOOD MAIN BEAMS & WOOD PURLINS, AS SHOWN.
- 14 (E) FLOOR SLAB - AS SHOWN

NEW & RENNOVATED

- A (N) ROOF TOP CONDENSERS - WITH UNIT STANDS, SEE MECHANICAL PLANS
- B (N) HVAC HEAD UNITS - AS SHOWN, LOCATE AND MOUNT AS PER MECHANICAL SHEETS.
- C (N) HVAC LINE SETS - LOCATE AS PER MECHANICAL SHEETS
- D (N) CONDENSATE LINE - MOUNT ALONG WALL, SLOPE 1/8" TYP. TO EXTERIOR WALL
- E CORE DRILL CONC. WALL - AS SHOWN / REQUIRED FOR CONDENSATE LINE, CAULK IN PLACE
- F (N) MAIN DUCT - MOUNT TIGHT TO STRUCTURE, AT GYM, SEE MECHANICAL PLANS FOR CONFIGURATION
- G (N) INTERLOCKED CONTROLS - AT EXISTING FAN, SEE MECHANICAL PLANS
- H (N) ROOFING PENETRATION - PROVIDE BOOT AND OR CAP AS REQUIRED FOR ROOFING TYPE.



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PHASES (PH):

BID & PERMIT SET

DRAWING NO.
A7.2
 WALL SECTION
 TYPICAL CLASSROOM

ELECTRICAL ABBREVIATIONS

A	AMPERES
AC	6" ABOVE BACKSPASH
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AF	AMP FRAME
AIC	AMPS INTERRUPTING CAPACITY
AMP TRIP	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CO	CONDUIT ONLY, PROVIDE PULL-LINE
CT	CURRENT TRANSFORMER
CTL	CONTROL
DC	DIRECT CURRENT
DEMO	DEMOLITION
DET	DETAIL
E	EMPTY/EMERGENCY
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EL	EMERGENCY LIGHT
EWC	ELECTRIC WATER COOLER
EW	ELECTRIC WATER HEATER
EXG	EXISTING
F	FUSE
FNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
G/ND	GROUND
GFI	GROUND FAULT INTERRUPTION
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTO
HPS	HIGH PRESSURE SODIUM
HT	HEIGHT
HVAC	HEATING, VENTILATING, & AIR CONDITIONING
HACR	HEATING, AIR CONDITIONING, REFRIGERATION
IBT	INTERSYSTEM BONDING TERMINATION
IC	INTERRUPTING CAPACITY
IG	ISOLATED GROUND
IPCO	IDAHO POWER COMPANY
JJB	JUNCTION BOX
KA	KILOAMP
KW	KILOWATT
KWH	KILOWATT HOUR
LTE	LONG TERM EVALUATION
M	MAGNETIC CONTACTOR COIL
MB	MAIN BREAKER
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUGS ONLY
MS	MOTOR STARTER
MH	MANHOLE
MH	METAL HALIDE
MTG	MOUNTING
N	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OH	OVERHEAD
OL	OVERLOAD
OS	OCCUPANCY SENSOR
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
PC	PHOTOCELL
PNL	PANEL
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PWR	POWER
PIR	PASSIVE INFARED
REC	RECEPTACLE
(R)	RELOCATED
SF	SQUARE FEET
T	TELEPHONE
TB	TERMINAL BOARD
TBD	TO BE DETERMINED
TC	TIME CLOCK
TDR	TIME DELAY RELAY
TJB	TERMINAL JUNCTION BOX
TSP	TWISTED SHIELDED PAIR
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
V	VOLT
VA	VOLT-AMPERE
WP	WEATHER PROOF/NEMA 3R
XFMR	TRANSFORMER
X	EXPLOSION PROOF
XFR	TRANSFER

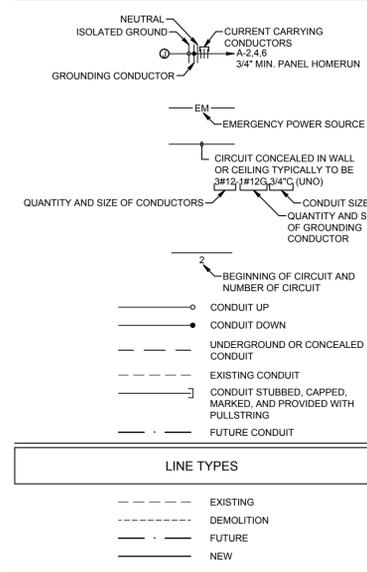
ELECTRICAL DEVICE SYMBOLS
see electrical specifications for further information

	DUAL LEVEL SWITCHING, INSIDE AND OUTSIDE LAMPS OF FIXTURE TO BE SWITCHED SEPARATELY.
	SINGLE RECEPTACLE, MOUNT AT +18" AFF UNLESS NOTED OTHERWISE.
	DUPLEX RECEPTACLE, MOUNT AT +18" AFF UNLESS NOTED OTHERWISE.
	DUPLEX RECEPTACLE, HALF OF RECEPTACLE SHALL BE SWITCHED, MOUNT AT +18" AFF UNLESS NOTED OTHERWISE.
	DUPLEX RECEPTACLE, MOUNTED IN FLOOR, TYPE OF BOX AS INDICATED.
	FOURPLEX RECEPTACLE, MOUNT AT +18" AFF UNLESS NOTED OTHERWISE.
	FOURPLEX RECEPTACLE, MOUNTED IN FLOOR, TYPE OF BOX AS INDICATED.
	SWITCH SUBSCRIPT INDICATES TYPE OF SWITCH, MOUNT AT +48" AFF UNLESS NOTED OTHERWISE.
	D DIMMER
	K KEYED
	LV LOW VOLTAGE
	M MOMENTARY CONTACT
	OV OVERRIDE
	OC OCCUPANCY SENSOR; SEE DRAWINGS FOR ADDITIONAL INFORMATION. FOR 2-POLE LINE VOLTAGE OCCUPANCY SENSOR, FURNISH AND INSTALL DUAL LEVEL SWITCHING. SENSORS MUST BE DUAL TECHNOLOGY AND A MINIMUM OF 1,000 SQUARE FEET OF COVERAGE. VACANCY SENSOR TO BE PROVIDED WITH MANUAL 'ON' OPERATION.
	P PILOT LIGHT
	TO THERMAL OVERLOAD (THE NUMBER OF POLES TO MATCH CIRCUIT REQUIREMENTS AND BE SIZED FOR ASSOCIATED MOTOR LOAD.)
	2 DOUBLE POLE
	3 THREE WAY
	4 FOUR WAY
	# SUPERSCRIPT INDICATES LIGHTS TO BE SWITCHED
	MOTOR STARTER/CONTACTOR TO BE NEMA 1 UNLESS NOTED OTHERWISE, SIZE AND TYPE AS INDICATED ON DRAWING.
	COMBINATION MOTOR STARTER AND DISCONNECT TO BE NEMA 1 UNLESS NOTED OTHERWISE, SIZE AND TYPE AS INDICATED ON DRAWING.
	FUSED DISCONNECT SWITCH TO BE NEMA 1 UNLESS NOTED OTHERWISE, SIZE AND POLES AS INDICATED.
	NON-FUSED DISCONNECT SWITCH TO BE NEMA 1 UNLESS NOTED OTHERWISE, SIZE AND POLES AS INDICATED.
	THERMOSTAT MOUNTED AT +48" AFF UNLESS NOTED OTHERWISE, MECHANICAL UNIT TO BE CONTROLLED AS INDICATED.
	AQUASTAT
	EQUIPMENT CONNECTION POINT, VERIFY TYPE OF CONNECTION WITH EQUIPMENT SUPPLIER, ELECTRICAL CONTRACTOR TO SUPPLY ALL RACEWAY AND CONDUCTORS UNLESS NOTED OTHERWISE.
	EQUIPMENT CONNECTION POINT MOUNTED IN FLOOR, TYPE OF BOX AS INDICATED, VERIFY TYPE OF CONNECTION WITH EQUIPMENT SUPPLIER, ELECTRICAL CONTRACTOR TO SUPPLY ALL RACEWAY AND CONDUCTORS UNLESS NOTED OTHERWISE.
	GROUND ROD, 5/8" BY 10' MINIMUM, COPPER-CLAD
	JUNCTION BOX
	WALL MOUNTED PUSHBUTTON, MOUNT AT +48" AFF UNLESS NOTED OTHERWISE
	3 BUTTON DOOR CONTROLLER
	2 BUTTON DOOR CONTROLLER
	TRANSFORMER, SIZE AND TYPE AS INDICATED # = TRANSFORMER DESIGNATION
	MOTOR WITH THERMAL OVERLOAD
	MOTOR
	PANELBOARD, SEE ELECTRICAL SCHEDULES FOR TYPE, SIZE AND MOUNTING # = PANELBOARD DESIGNATION
	EQUIPMENT CABINET, SURFACE MOUNTED
	EQUIPMENT CABINET, FLUSH MOUNTED
	WALL MOUNTED CIRCUIT BREAKER, TYPE AND SIZE AS INDICATED
	WIREMOLD - POWER AND DATA RACEWAY MOUNT RECEPTACLES AS SHOWN, MOUNTING OF RACEWAY AS INDICATED
	PLUGMOLD - POWER ONLY
	MECHANICAL EQUIPMENT CALLOUT
	POWER POLE
	TWO COMPARTMENT POWER POLE

ONE LINE SYMBOLS
see electrical specifications for further information

	ATS AUTOMATIC TRANSFER SWITCH, SIZE AND POLES AS INDICATED ON DRAWING
	CIRCUIT BREAKER, SIZE AND POLES AS INDICATED ON DRAWING
	PANELBOARD; NAME, SIZE, TYPE AS INDICATED ON DRAWINGS
	PAD MOUNTED TRANSFORMER BY LOCAL UTILITY
	METER
	GROUND BAR
	SECTOR SWITCH

CIRCUITING SYMBOLS
see electrical specifications for further information



ELECTRICAL DRAWING SHEET INDEX

E0.0	ELECTRICAL SYMBOLS AND SHEET INDEX
E2.00	ELECTRICAL DEMOLITION PLAN
E2.0M	MECHANICAL POWER PLAN
E2.0R	ELECTRICAL ROOF PLAN
E3.0	ONE LINE DIAGRAM AND ELECTRICAL DETAILS
E3.1	ELECTRICAL SCHEDULES



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ALSEA SCHOOL DISTRICT
1C9-2C22: KI-12 BUILDING HVAC UPGRADES

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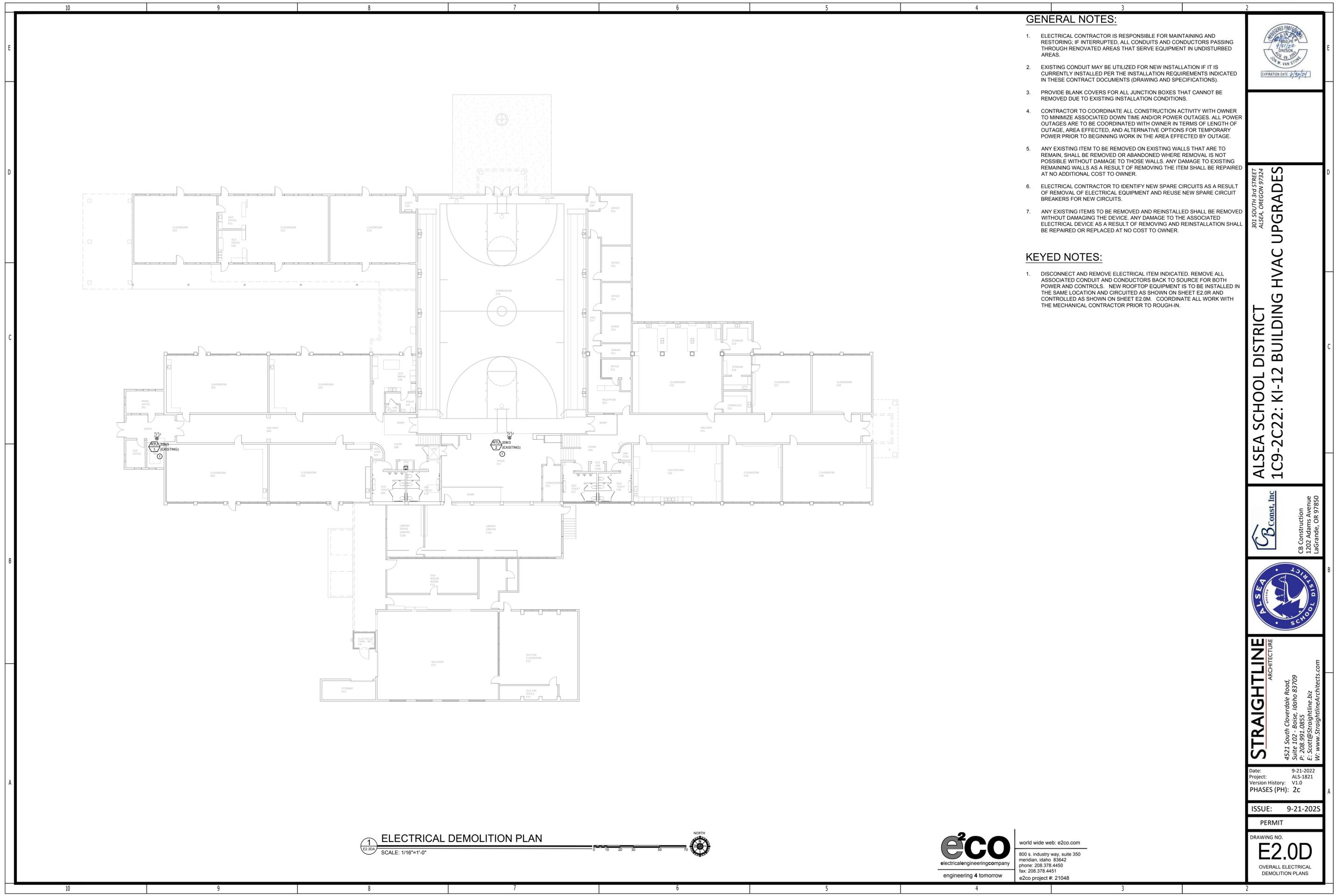
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DRAWING NO.
E0.0
ELECTRICAL SYMBOLS AND SHEET INDEX



GENERAL NOTES:

- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND RESTORING; IF INTERRUPTED, ALL CONDUITS AND CONDUCTORS PASSING THROUGH RENOVATED AREAS THAT SERVE EQUIPMENT IN UNDISTURBED AREAS.
- EXISTING CONDUIT MAY BE UTILIZED FOR NEW INSTALLATION IF IT IS CURRENTLY INSTALLED PER THE INSTALLATION REQUIREMENTS INDICATED IN THESE CONTRACT DOCUMENTS (DRAWING AND SPECIFICATIONS).
- PROVIDE BLANK COVERS FOR ALL JUNCTION BOXES THAT CANNOT BE REMOVED DUE TO EXISTING INSTALLATION CONDITIONS.
- CONTRACTOR TO COORDINATE ALL CONSTRUCTION ACTIVITY WITH OWNER TO MINIMIZE ASSOCIATED DOWN TIME AND/OR POWER OUTAGES. ALL POWER OUTAGES ARE TO BE COORDINATED WITH OWNER IN TERMS OF LENGTH OF OUTAGE, AREA EFFECTED, AND ALTERNATIVE OPTIONS FOR TEMPORARY POWER PRIOR TO BEGINNING WORK IN THE AREA EFFECTED BY OUTAGE.
- ANY EXISTING ITEM TO BE REMOVED ON EXISTING WALLS THAT ARE TO REMAIN, SHALL BE REMOVED OR ABANDONED WHERE REMOVAL IS NOT POSSIBLE WITHOUT DAMAGE TO THOSE WALLS. ANY DAMAGE TO EXISTING REMAINING WALLS AS A RESULT OF REMOVING THE ITEM SHALL BE REPAIRED AT NO ADDITIONAL COST TO OWNER.
- ELECTRICAL CONTRACTOR TO IDENTIFY NEW SPARE CIRCUITS AS A RESULT OF REMOVAL OF ELECTRICAL EQUIPMENT AND REUSE NEW SPARE CIRCUIT BREAKERS FOR NEW CIRCUITS.
- ANY EXISTING ITEMS TO BE REMOVED AND REINSTALLED SHALL BE REMOVED WITHOUT DAMAGING THE DEVICE. ANY DAMAGE TO THE ASSOCIATED ELECTRICAL DEVICE AS A RESULT OF REMOVING AND REINSTALLATION SHALL BE REPAIRED OR REPLACED AT NO COST TO OWNER.

KEYED NOTES:

- DISCONNECT AND REMOVE ELECTRICAL ITEM INDICATED, REMOVE ALL ASSOCIATED CONDUIT AND CONDUCTORS BACK TO SOURCE FOR BOTH POWER AND CONTROLS. NEW ROOFTOP EQUIPMENT IS TO BE INSTALLED IN THE SAME LOCATION AND CIRCUITED AS SHOWN ON SHEET E2.0R AND CONTROLLED AS SHOWN ON SHEET E2.0M. COORDINATE ALL WORK WITH THE MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.



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DRAWING NO.
E2.0D
 OVERALL ELECTRICAL
 DEMOLITION PLANS

1 ELECTRICAL DEMOLITION PLAN
 SCALE: 1/16"=1'-0"
 NORTH

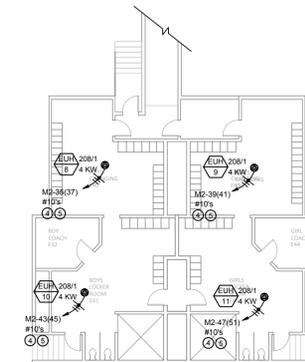
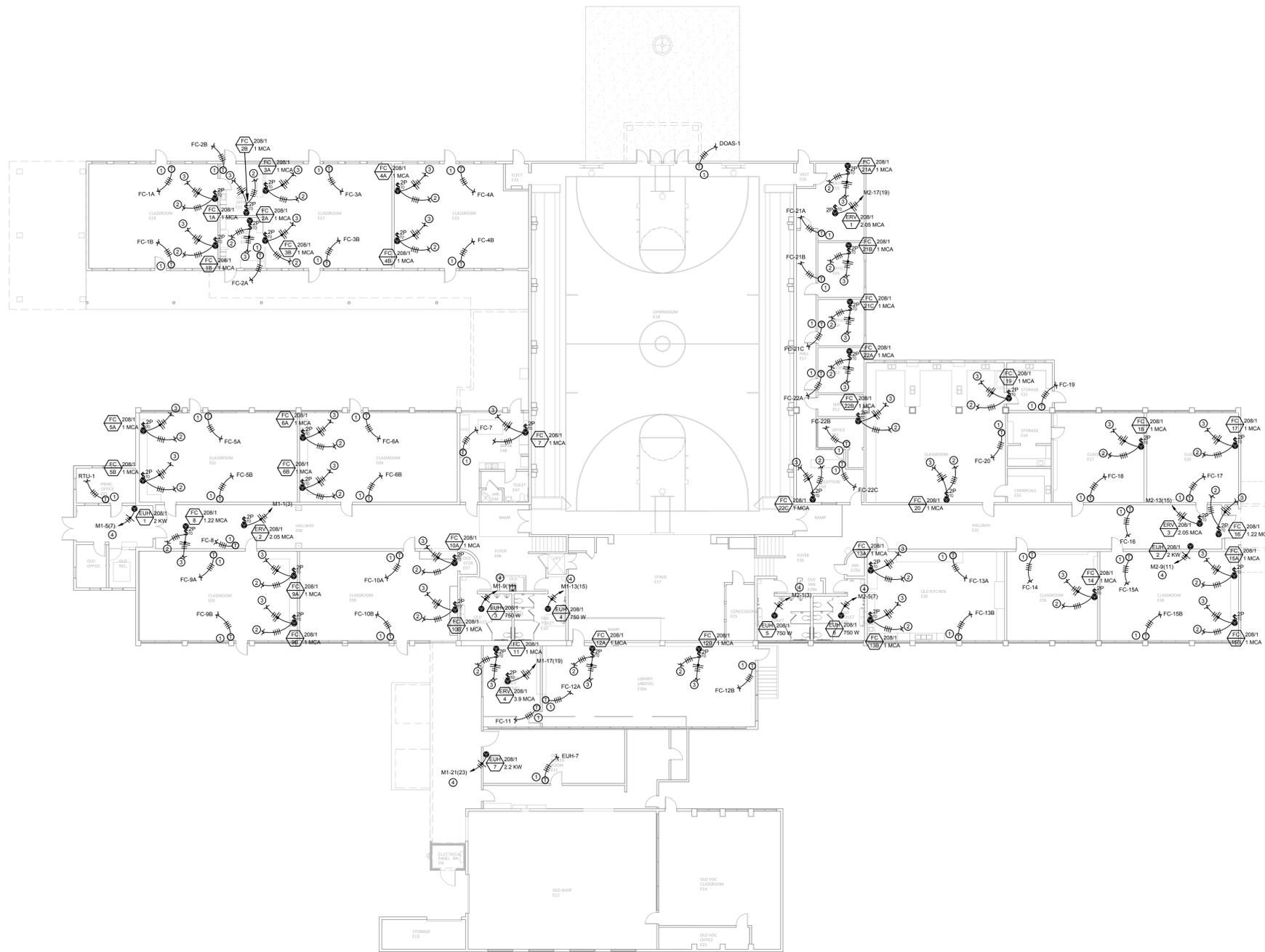
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 fax: 208.378.4451
 e2co project #: 21048

GENERAL NOTES:

- COORDINATE ALL WORK ON HVAC SYSTEMS WITH DIVISION 15.
- ALL BREAKERS SUPPLYING MECHANICAL EQUIPMENT SHALL BE HACR RATED.
- CONTRACTOR SHALL ROUTE ALL CONDUIT AND CONDUCTORS IN CEILING SPACE BELOW ROOF. IF CONTRACTOR ROUTES CONDUIT AND CONDUCTORS ON ROOF, CONTRACTOR SHALL BE RESPONSIBLE FOR DE-RATING CONDUCTORS PER SECTION 310.15(A)(2) OF THE 2017 NEC AND MODIFY CONDUIT SIZES AS REQUIRED.
- THERMAL OVERLOAD PROTECTION IS ONLY REQUIRED WHERE EQUIPMENT PROVIDED BY MECHANICAL CONTRACTOR DOES NOT INCORPORATE INTEGRAL THERMAL PROTECTION OF MOTOR. DIVISION 16 TO COORDINATE REQUIREMENTS WITH DIVISION 15 FOR ACTUAL EQUIPMENT SUPPLIED.

KEYED NOTES:

- PRIOR TO ROUGH-IN DIVISION 16 TO COORDINATE LOCATION AND MOUNTING HEIGHTS OF T-STAT OR SENSOR WITH DIVISION 15. DIVISION 16 TO FURNISH AND INSTALL BACKBOX, 1/2" CONDUIT, AND CONDUCTORS UP TO ABOVE ACCESSIBLE CEILING; CONTINUE CONDUCTORS TO MECHANICAL EQUIPMENT INDICATED. DIVISION 15 TO FURNISH T-STAT OR SENSOR AND MAKE FINAL CONNECTIONS. COORDINATE SIZE AND NUMBER OF CONDUCTORS WITH DIVISION 15.
- DIVISION 16 TO PROVIDE 1/2" CONDUIT AND CONDUCTORS TO ASSOCIATED HEAT PUMP LOCATED ON ROOF OF BUILDING FOR CONTROLS. DIVISION 15 TO MAKE FINAL CONNECTIONS. COORDINATE SIZE AND NUMBER OF CONDUCTORS WITH DIVISION 15.
- CONNECTION TO ROOFTOP HEAT PUMP UNIT FOR POWER. INDOOR FAN COIL UNIT TO BE POWERED THROUGH EXTERIOR HEAT PUMP. SEE SHEET E2.0R FOR HEAT PUMP INFORMATION.
- FURNISH AND INSTALL LOCKABLE BREAKER AT POSITION INDICATED.
- FIELD VERIFY ROUTE FROM LOCKER ROOM TO ROOF MOUNTED PANEL M2. CONDUIT TO BE LOCATED IN PROTECTED LOCATION AND BE PAINTED TO MATCH EXISTING CONDITIONS WHERE CONDUIT IS TO BE ROUTED.



1 LOCKER ROOM MECHANICAL POWER PLAN
 SCALE: 1/16"=1'-0"

1 OVERALL MECHANICAL POWER PLAN
 SCALE: 1/16"=1'-0"

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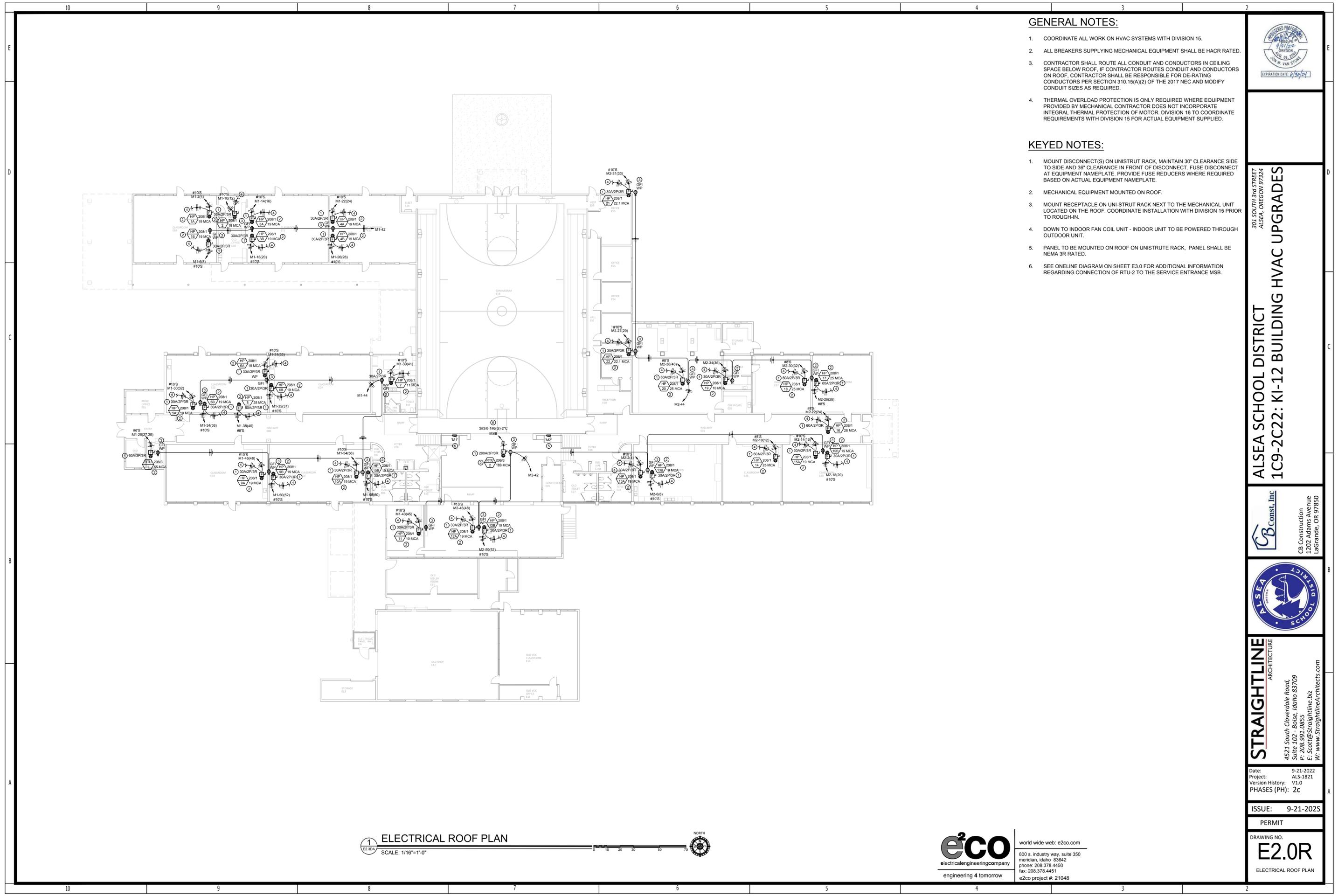
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DRAWING NO.

E2.0M

MECHANICAL POWER PLAN



GENERAL NOTES:

- COORDINATE ALL WORK ON HVAC SYSTEMS WITH DIVISION 15.
- ALL BREAKERS SUPPLYING MECHANICAL EQUIPMENT SHALL BE HACR RATED.
- CONTRACTOR SHALL ROUTE ALL CONDUIT AND CONDUCTORS IN CEILING SPACE BELOW ROOF. IF CONTRACTOR ROUTES CONDUIT AND CONDUCTORS ON ROOF, CONTRACTOR SHALL BE RESPONSIBLE FOR DE-RATING CONDUCTORS PER SECTION 310.15(A)(2) OF THE 2017 NEC AND MODIFY CONDUIT SIZES AS REQUIRED.
- THERMAL OVERLOAD PROTECTION IS ONLY REQUIRED WHERE EQUIPMENT PROVIDED BY MECHANICAL CONTRACTOR DOES NOT INCORPORATE INTEGRAL THERMAL PROTECTION OF MOTOR. DIVISION 16 TO COORDINATE REQUIREMENTS WITH DIVISION 15 FOR ACTUAL EQUIPMENT SUPPLIED.

KEYED NOTES:

- MOUNT DISCONNECT(S) ON UNISTRUT RACK, MAINTAIN 30" CLEARANCE SIDE TO SIDE AND 36" CLEARANCE IN FRONT OF DISCONNECT. FUSE DISCONNECT AT EQUIPMENT NAMEPLATE. PROVIDE FUSE REDUCERS WHERE REQUIRED BASED ON ACTUAL EQUIPMENT NAMEPLATE.
- MECHANICAL EQUIPMENT MOUNTED ON ROOF.
- MOUNT RECEPTACLE ON UNI-STRUT RACK NEXT TO THE MECHANICAL UNIT LOCATED ON THE ROOF. COORDINATE INSTALLATION WITH DIVISION 15 PRIOR TO ROUGH-IN.
- DOWN TO INDOOR FAN COIL UNIT - INDOOR UNIT TO BE POWERED THROUGH OUTDOOR UNIT.
- PANEL TO BE MOUNTED ON ROOF ON UNISTRUTE RACK, PANEL SHALL BE NEMA 3R RATED.
- SEE ONELINE DIAGRAM ON SHEET E3.0 FOR ADDITIONAL INFORMATION REGARDING CONNECTION OF RTU-2 TO THE SERVICE ENTRANCE MSB.



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DRAWING NO.
E2.0R
 ELECTRICAL ROOF PLAN

1 ELECTRICAL ROOF PLAN
 SCALE: 1/16"=1'-0"
 NORTH

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 e2co project #: 21048

PROJECT PHASING:

THE PHASING SHALL FOLLOW THE ARCHITECTURAL PHASING PLANS FOR CONSTRUCTION PHASES.

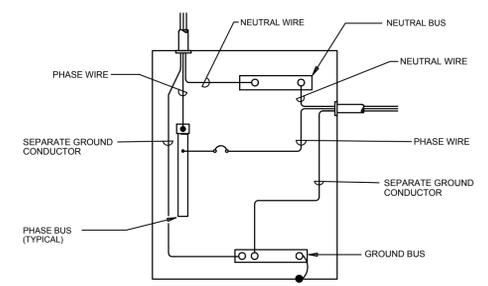
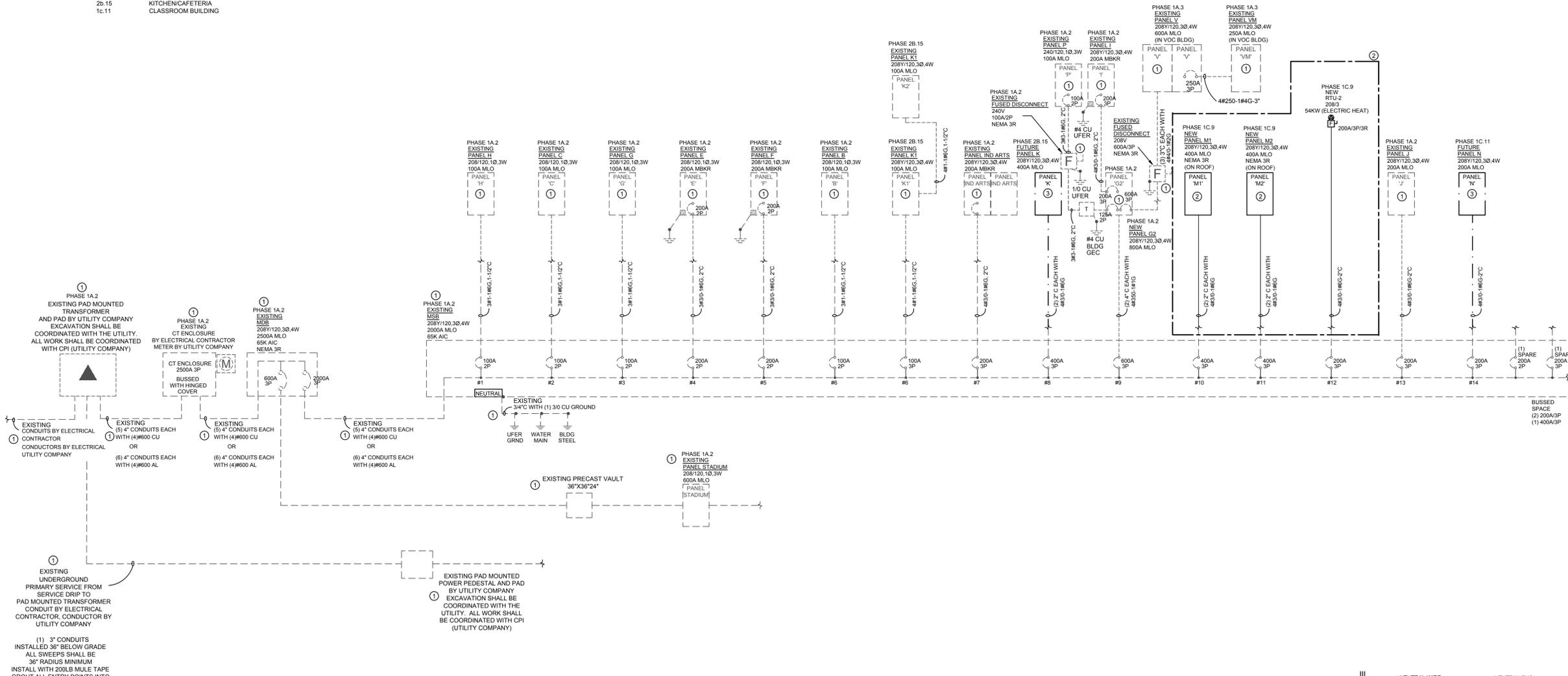
THE FOLLOWING IS THE PHASING NAMING CONVENTION:

CURRENT DESIGN PHASES:	
PHASE #	PHASE NAME
1a.2	POWER SERVICE UPGRADE
1a.3	VOC BUILDING
1b.4	PANEL ROOM
1c.9 & 2c.22	K-12 HVAC

FUTURE DESIGN PHASES:	
PHASE #	PHASE NAME
2b.15	KITCHEN/CAFETERIA
1c.11	CLASSROOM BUILDING

KEYED NOTES:

- ALL ITEMS SHOWN AS EXISTING WERE DESIGNED AND TO BE INSTALLED IN A PREVIOUS PROJECT PHASE. THE PROJECT PHASE IS NOTED AT EACH PIECE OF EQUIPMENT.
- THIS PANEL AND ASSOCIATED FEEDERS ARE TO BE INSTALLED AS PART OF THIS PROJECT PHASE.
- THIS PANEL, OR EQUIPMENT AND ASSOCIATED FEEDERS ARE TO BE INCLUDED IN A FUTURE PROJECT PHASE.



TYPICAL ELECTRICAL PANEL DETAIL

ONE LINE DIAGRAM AND ELECTRICAL DETAILS
SCALE: NO SCALE



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ONE LINE DIAGRAM AND ELECTRICAL DETAILS

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ELECTRICAL LOAD SUMMARY - MDB - MAIN DISTRIBUTION BOARD (SERVICE ENTRANCE)
Alsea Schools

PANEL AND/OR EQUIPMENT	VOLTAGE	ELECTRICAL LOAD (KVA)								CONNECTED LOAD		DEMAND LOAD	
		LIGHTING	REC.	MOTORS	KITCHEN	HVAC	NON-CONT.	ELEC. HEAT	EXISTING	KVA	AMPS	KVA	AMPS
MSB (NEW)	208Y/120	-	-	-	-	-	639.00	-	639.0	1774	639.0	1774	
FOOTBALL FIELD LIGHTING (EXISTING)	208Y/120	-	-	-	-	-	-	129.70	129.7	360	129.7	360	
TOTAL (NEW)		0	0	0	0	0	639	0	130	769	2134	801	2224

MAIN SERVICE DISCONNECT/EQUIPMENT RATING: **2500 AMPS**

OCPD RATING: **STANDARD RATED**

Fault Current at Service Equipment

***MAXIMUM AVAILABLE FAULT CURRENT TO BE FIELD MARKED ON SERVICE EQUIPMENT PER NEC 110.24(A).

AVAILABLE FAULT CURRENT AT TERMINALS OF MAIN DISCONNECT = **42,269 amperes**
MAIN SERVICE DISCONNECT AIC RATING:

LOAD TYPE	CONNECTED LOAD (VA)	DEMAND FACTOR	DEMAND LOAD (VA)	REMARKS	UNITS
LIGHTING	0	125%	0		
RECEPTACLES	0	-	0	FIRST 10,000VA AT 100% + REMAINDER OVER 10,000VA AT 50%	
MOTORS	0	-	0	125% OF LARGEST MOTOR + 100% OF ALL OTHER MOTORS	
KITCHEN EQUIPMENT	0	65%	0	1-2 UNITS=100%, 3 UNITS=90%, 4 UNITS=80%, 5 UNITS=70%, >=6 UNITS=65%	>6 UNITS
HVAC EQUIPMENT	0	100%	0		
NON-CONTINUOUS LOADS	639,000	100%	639,000		
ELECTRIC HEAT	0	125%	0		
CONTINUOUS LOADS	129,700	125%	162,125		
TOTALS	768,700	104%	801,125	VA	

SERIES RATED EQUIPMENT SHALL BE PROVIDED IN ACCORDANCE WITH N.E.C., AND SERIES RATED COMBINATIONS SHALL BE LISTED BY UNDERWRITERS LABORATORIES

ELECTRICAL LOAD SUMMARY - MSB - MAIN SWITCH BOARD (NEW AND EXISTING LOADS)
Alsea Schools

PANEL AND/OR EQUIPMENT	VOLTAGE	ELECTRICAL LOAD (KVA)								CONNECTED LOAD		DEMAND LOAD	
		LIGHTING	REC.	MOTORS	KITCHEN	HVAC	NON-CONT.	ELEC. HEAT	CONT.	KVA	AMPS	KVA	AMPS
PANEL J (EXISTING)	208Y/120	12.66	2.70	-	-	-	6.60	-	23.8	66	27.4	76	
PANEL G2 (EXISTING)	208Y/120	-	8.04	-	-	5.40	175.06	-	188.5	523	188.5	523	
PANEL V (EXISTING - VOC BUILDING)	208Y/120	2.32	24.00	0.00	0.00	0.00	120.64	0.00	147.0	408	140.5	390	
PANEL N (EXISTING - CLASSROOM BUILDING)	208Y/120	1.82	10.10	-	-	12.24	10.20	6.00	40.4	112	42.3	117	
PANEL K (NEW - FUTURE PHASE)	208Y/120	8.64	-	-	16.50	-	2.50	-	27.6	77	24.0	67	
PANEL M1 (NEW)	208Y/120	-	1.62	-	-	101.39	-	5.70	108.7	302	108.7	302	
PANEL M2 (NEW)	208Y/120	-	1.80	-	-	72.02	-	19.50	93.3	259	98.2	273	
PANEL H (EXISTING)	208Y/120	-	-	-	-	-	-	-	0.0	0	0.0	0	
PANEL C (EXISTING)	208Y/120	-	-	-	-	-	-	-	0.0	0	0.0	0	
PANEL G (EXISTING)	208Y/120	-	-	-	-	-	-	-	0.0	0	0.0	0	
PANEL E (EXISTING)	208Y/120	-	-	-	-	-	-	-	0.0	0	0.0	0	
PANEL F (EXISTING)	208Y/120	-	-	-	-	-	-	-	0.0	0	0.0	0	
RTU-2 (GYM) (NEW)	208	-	-	-	-	68.04	-	-	68.0	189	68.0	189	
TOTAL (NEW)		125	13	38	0	17	254	133	485	1346	476	1323	
EXISTING DEMAND KW:									156.3	434	156.3	434	
EXISTING DEMAND X 125%:									195.4	543	195.4	543	
TOTAL (NEW + EXISTING):									641	1780	633	1756	

MAIN SERVICE DISCONNECT/EQUIPMENT RATING: **2000 AMPS**

OCPD RATING: **STANDARD RATED**

Fault Current at Service Equipment

***MAXIMUM AVAILABLE FAULT CURRENT TO BE FIELD MARKED ON SERVICE EQUIPMENT PER NEC 110.24(A).

AVAILABLE FAULT CURRENT AT TERMINALS OF MAIN DISCONNECT = **42,269 amperes**
MAIN SERVICE DISCONNECT AIC RATING:

LOAD TYPE	CONNECTED LOAD (VA)	DEMAND FACTOR	DEMAND LOAD (VA)	REMARKS	UNITS
LIGHTING	12,780	125%	15,975		
RECEPTACLES	37,524	-	23,762	FIRST 10,000VA AT 100% + REMAINDER OVER 10,000VA AT 50%	
MOTORS	0	-	0	125% OF LARGEST MOTOR + 100% OF ALL OTHER MOTORS	
KITCHEN EQUIPMENT	16,500	65%	10,725	1-2 UNITS=100%, 3 UNITS=90%, 4 UNITS=80%, 5 UNITS=70%, >=6 UNITS=65%	>6 UNITS
HVAC EQUIPMENT	253,692	100%	253,692		
NON-CONTINUOUS LOADS	133,340	100%	133,340		
ELECTRIC HEAT	31,200	125%	39,000		
CONTINUOUS LOADS	0	125%	0		
TOTALS	485,036	98%	476,494	VA	

SERIES RATED EQUIPMENT SHALL BE PROVIDED IN ACCORDANCE WITH N.E.C., AND SERIES RATED COMBINATIONS SHALL BE LISTED BY UNDERWRITERS LABORATORIES

LOAD TYPE	NOTES	CKT NO.	DESCRIPTION	AMPS/POLES	LOAD (VA)	LOAD (VA)	WIRE SIZE	PHASE (VA)	WIRE SIZE	LOAD (VA)	LOAD (VA)	AMPS/POLES	DESCRIPTION	CKT NO.	NOTES	LOAD TYPE
5		1	ERV-2	20 2	248 2.1	12	2536	10 19.0	2280 30 2	HP-1A	2	5				5
5		3	***	20 2	248 2.1	12	2536	10 19.0	2280 30 2	***	2	5				5
7		5	ELH-1	20 2	1000 8.9	12	3380	10 19.0	2280 30 2	HP-1B	6	5				5
7		7	***	20 2	1000 8.9	12	3380	10 19.0	2280 30 2	***	8	5				5
7		9	ELH-3	20 2	375 3.1	12	2655	10 19.0	2280 30 2	HP-2	10	5				5
7		11	***	20 2	375 3.1	12	2655	10 19.0	2280 30 2	***	12	5				5
7		13	ELH-4	20 2	375 3.1	12	2655	10 19.0	2280 30 2	HP-3A	14	5				5
7		15	***	20 2	375 3.1	12	2655	10 19.0	2280 30 2	***	16	5				5
5		17	ERV-4	20 2	468 3.9	12	2748	10 19.0	2280 30 2	HP-3B	18	5				5
5		19	***	20 2	468 3.9	12	2748	10 19.0	2280 30 2	***	20	5				5
7		21	ELH-7	20 2	1100 9.2	12	3880	10 19.0	2280 30 2	HP-4A	22	5				5
7		23	***	20 2	1100 9.2	12	3880	10 19.0	2280 30 2	***	24	5				5
5		25	RTU-1	60 3	6600 55.0	6	8880	10 19.0	2280 30 2	HP-4B	26	5				5
5		27	***	60 3	6600 55.0	6	8880	10 19.0	2280 30 2	***	28	5				5
5		29	***	60 3	6600 55.0	6	8880	10 19.0	2280 30 2	***	30	5				5
5		31	HP-6A	30 2	2280 19.0	10	4560	10 19.0	2280 30 2	HP-6A	32	5				5
5		33	***	30 2	2280 19.0	10	4560	10 19.0	2280 30 2	***	34	5				5
5		35	HP-6B	30 2	2280 19.0	10	4560	10 19.0	2280 30 2	HP-6B	36	5				5
5		37	***	30 2	2280 19.0	10	4560	10 19.0	2280 30 2	***	38	5				5
5		39	HP-7	30 2	1820 11.0	12	4680	8 26.0	3960 40 2	HP-7	40	5				5
5		41	***	30 2	1820 11.0	12	4680	8 26.0	3960 40 2	***	42	5				5
5		43	HP-11	20 2	1200 10.0	12	2380	12 4.5	540 20 1	ROOFTOP RECEPTACLES	44	2				2
5		45	***	20 2	1200 10.0	12	2380	12 4.5	540 20 1	ROOFTOP RECEPTACLES	46	2				2
47			BLANK - PREPARED SPACE	0.0	IN/A		2280	10 19.0	2280 30 2	HP-9A	48	5				5
49			BLANK - PREPARED SPACE	0.0	IN/A		2280	10 19.0	2280 30 2	HP-9B	50	5				5
51			BLANK - PREPARED SPACE	0.0	IN/A		2280	10 19.0	2280 30 2	HP-9C	52	5				5
53			BLANK - PREPARED SPACE	0.0	IN/A		2280	10 19.0	2280 30 2	HP-10A	54	5				5
55			BLANK - PREPARED SPACE	0.0	IN/A		2280	10 19.0	2280 30 2	HP-10B	56	5				5
57			BLANK - PREPARED SPACE	0.0	IN/A		2280	10 19.0	2280 30 2	HP-10B	58	5				5
59			BLANK - PREPARED SPACE	0.0	IN/A		2280	10 19.0	2280 30 2	HP-10B	60	5				5

LOAD #	LOAD TYPE	CONNECTED LOAD (VA)	DEMAND FACTOR	DEMAND LOAD (VA)
1	LIGHTING	0	1.00	0
2	RECEPTACLE	1,620	*	1,620
3	MOTOR	0	**	0
4	KITCHEN EQUIP.	0	0.00	0
5	HVAC	101,288	1.00	101,288
6	NON-CONTINUOUS	0	1.00	0
7	ELECTRIC HEAT	5,700	1.00	5,700
8	CONTINUOUS	0	1.00	0
TOTAL:		108,708	1.00	108,708

PANEL ELECTRICAL LOAD DATA	
TOTAL CONNECTED LOAD:	108.7 KVA
TOTAL DEMAND LOAD:	108.7 KVA
PANEL OCPD RATING: 100% RATED	

PANEL NOTES	
1.	PROVIDE CLASS 'A' GFCI TYPE BREAKER
2.	BREAKER TO BE FED HANDLED
3.	INSTALL LOCK ON DEVICE ON BREAKER (SET SCREW, NON-PALOOK TYPE)
4.	ROUTE CIRCUIT TO LTG. RELAY/CONTACTOR FOR CONTROL

ELECTRICAL SCHEDULES
SCALE: NO SCALE

LOAD TYPE	NOTES	CKT NO.	DESCRIPTION	AMPS/POLES	LOAD (VA)	LOAD (VA)	WIRE SIZE	PHASE (VA)	WIRE SIZE	LOAD (VA)	LOAD (VA)	AMPS/POLES	DESCRIPTION	CKT NO.	NOTES	LOAD TYPE
7		1	ELH-5	20 2	375 3.1	12	2655	10 19.0	2280 30 2	HP-13A	2	5				5
7		3	***	20 2	375 3.1	12	2655	10 19.0	2280 30 2	***	4	5				5
7		5	ELH-6	20 2	375 3.1	12	2655	10 19.0	2280 30 2	HP-13B	6	5				5
7		7	***	20 2	375 3.1	12	2655	10 19.0	2280 30 2	***	8	5				5
7		9	ELH-2	20 2	1000 8.9	12	4000	8 26.0	3000 40 2	HP-14	10	5				5
7		11	***	20 2	1000 8.9	12	4000	8 26.0	3000 40 2	***	12	5				5
5		13	ERV-3	20 2	246 2.1	12	2526	10 19.0	2280 30 2	HP-15A	14	5				5
5		15	***	20 2	246 2.1	12	2526	10 19.0	2280 30 2	***	16	5				5

ELECTRIC UNIT HEATER SCHEDULE

NO.	TYPE	MOUNT TYPE	AREA SERVED	CFM	KW	MBH	EAT °F	LAT °F	CHAR	AMPS	WEIGHT (LB)	APPROXIMATE DIMENSION	MANUFACTURER	REMARKS
												LxWxD (in)		
1	WALL MOUNT	RECESSED	HALLWAY E06	65	2.0	6.82	55	152	208/10	9.6	12	9-1/4 x 12-1/8 x 4	'QMARK' CWH	1,2,3
2	WALL MOUNT	RECESSED	HALLWAY E06	65	2.0	6.82	55	152	208/10	9.6	12	9-1/4 x 12-1/8 x 4	'QMARK' CWH	1,2,3
3	CEILING MOUNT	RECESSED	RESTROOM	65	0.75	2.56	55	91	208/10	3.6	10	10-1/2 x 12-1/2 x 4	'QMARK' QCH	1,2
4	CEILING MOUNT	RECESSED	RESTROOM	65	0.75	2.56	55	91	208/10	3.6	10	10-1/2 x 12-1/2 x 4	'QMARK' QCH	1,2
5	CEILING MOUNT	RECESSED	RESTROOM	65	0.75	2.56	55	91	208/10	3.6	10	10-1/2 x 12-1/2 x 4	'QMARK' QCH	1,2
6	CEILING MOUNT	RECESSED	RESTROOM	65	0.75	2.56	55	91	208/10	3.6	10	10-1/2 x 12-1/2 x 4	'QMARK' QCH	1,2
7	HIGH WALL	WALL HUNG	BOILER	350	2.2	7.51	55	74	208/10	11.0	27	16 x 14 x 7-1/2	'QMARK' MUH	1,2,3
8	CEILING MOUNT	RECESSED	LOCKER	150	4.0	13.65	55	86	208/10	19.21	23	15-3/8 x 18-3/4 x 4	'QMARK' EFF	1,2
9	CEILING MOUNT	RECESSED	LOCKER	150	4.0	13.65	55	86	208/10	19.21	23	15-3/8 x 18-3/4 x 4	'QMARK' EFF	1,2
10	CEILING MOUNT	RECESSED	LOCKER	150	4.0	13.65	55	86	208/10	19.21	23	15-3/8 x 18-3/4 x 4	'QMARK' EFF	1,2
11	CEILING MOUNT	RECESSED	LOCKER	150	4.0	13.65	55	86	208/10	19.21	23	15-3/8 x 18-3/4 x 4	'QMARK' EFF	1,2

- FURNISH WITH INTEGRAL THERMOSTAT.
- PROVIDE WITH MANUFACTURER'S MOUNTING KIT.
- SET TO OPERATE AT 55°F.

ENERGY RECOVERY VENTILATOR SCHEDULE

NO.	AREA SERVED	SUPPLY CFM	EXHAUST CFM	ESP	LEAVING AIR CONDITIONS		NOMINAL RECOVERY EFF			ELECTRICAL		APPROXIMATE DIMENSION HxWxL (IN)	WEIGHT (LB)	MANUFACTURER	REMARKS
					COOLING DB/WB (°F)	HEATING DB (°F)	TEMP. RECOVERY	ENTHALPY COOLING	ENTHALPY HEATING	MCA	CHAR				
1	OFFICES	100	100	0.46	78/64	60	65%	50%	63%	2.05	208/10	13x42x42	75	'LOSSNAY' LGH-F300RVX-E	1-4
2	HALLWAY E06	200	200	0.46	79/64	56	65%	50%	63%	2.05	208/10	13x40x34	73	'LOSSNAY' TLGHF0300RX501A	1-4
3	HALLWAY E31	200	200	0.46	79/64	56	65%	50%	63%	2.05	208/10	13x40x34	73	'LOSSNAY' TLGHF0300RX501A	1-4
4	LIBRARY	350	350	0.86	78/64	60	65%	49%	61%	3.9	208/10	16x49x39	90	'LOSSNAY' TLGHF0380RVX02A	1-4

- PROVIDE ALL ANCILLARY COMPONENTS REQUIRED FOR A FULL INSTALLATION.
- PROVIDE WITH MERV 8 FILTER OR BETTER.
- PROVIDE WITH VENTILATION WALL CONTROLLER WITH A TIME CLOCK AND SET TO CFM SHOWN. SET TO OPERATE DURING OCCUPANCY HOURS.
- PROVIDE WITH EXHAUST AND OUTSIDE AIR ROOF/WALL CAP WITH GRAVITY DAMPER AND BIRD SCREEN. SEE PLAN.

HEAT PUMP PACKAGED ROOFTOP UNIT SCHEDULE

NO.	TYPE	AREA SERVED	CFM	NOMINAL TONS	OSA	HP	MCA	CHAR	RPM	SPE	HEAT PUMP HEATING			ELECTRIC HEAT				COOLING				WEIGHT (LB)	MANUFACTURER	REMARKS			
											MBH	EDB (°F)	LDB (°F)	CAPACITY	STAGES	OUTPUT MBH	TEMP RISE °F	MBH	S/T	STAGES	EDB/EWB (°F)				LDB/LWB (°F)	OA DB (°F)	EER/SEER
1	PACKAGED	OFFICES	1200	3	50	0.60	55.0	208/30	864	0.50	31.32	60	91	-	-	-	-	34.98	0.94	1	80/62	52/51	95	12.5/ 16.0	870	'TRANE' WHC036H3REB	1-4
2	PACKAGED	GYM	4000	10	2400	2.750	189.0	208/30	1448	0.60	77.97	60	102	54 kW	2	184.41	42.46	77.97	0.94	2	80/63	55/53	95	11.5/ 15.5	1617	'TRANE' WHC120H3RPA	1-6

- PROVIDE 2" PLEATED DISPOSABLE MERV 9 FILTER. PROVIDE FOR 0.5" W.G. DIRTY FILTER ALLOWANCE WHEN CALCULATING TOTAL STATIC PRESSURE DROP.
- PROVIDE 14" CURB FOR UNIT.
- PROVIDE WITH POWERED CONVENIENCE OUTLET.
- PROVIDE UNIT WITH ECONOMIZER AND BAROMETRIC RELIEF TO ENSURE PROPER BUILDING PRESSURE WHEN UNIT IS IN ECONOMIZER MODE.
- PROVIDE WITH SMOKE DETECTOR MOUNTED IN RETURN DUCT.
- LOCK OUT COOLING.

MECHANICAL SHEET INDEX

#	SHEET NAME
M0.0	MECHANICAL COVER SHEET
M0.1	MECHANICAL SCHEDULES
M1.1	MECHANICAL PLAN
M1.2	MECHANICAL PLAN
M2.1	MECHANICAL DETAILS
M3.1	MECHANICAL SPECIFICATIONS

GRILLE AND REGISTER SCHEDULE

SYMBOL	DESCRIPTION	TYPE	FINISH	REMARKS
SG	SUPPLY GRILLE	'TITUS' 272RL	WHITE	-
RG	RETURN GRILLE	'TITUS' 50F	WHITE	-
DL	DRUM LOUVER	'TITUS' DL	WHITE	-

ABBREVIATIONS

SYMBOL	DESCRIPTION
*F	DEGREES FAHRENHEIT
AC	AIR CONDITIONING
ACH	AIR CHANGES PER HOUR
ACT	ACOUSTICAL CEILING TILE
AL	ACOUSTIC LINING
ALT	ALTERNATIVE
APD	AIR PRESSURE DROP (INCHES W.G.)
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNITS
BTUH	BRITISH THERMAL UNITS PER HOUR
CFM	CUBIC FEET PER MINUTE
CHAR	CHARACTERISTICS
COP	COEFFICIENT OF PERFORMANCE
CV	CONSTANT VOLUME
DB	DRY BULB
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB
EER	ENERGY EFFICIENCY RATIO
EFF	EFFECTIVENESS
ENT	ENTERING
ESP	EXTERNAL STATIC PRESSURE (INCHES W.G.)
EVAP	EVAPORATOR
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
(E)	EXISTING
FM	FREQUENCY MODULATION
FT	FEET
HP	HORSEPOWER
HR	HEAT RECOVERY
HS	HEAT SUPPLY
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HSPF	HEATING SEASONAL PERFORMANCE FACTOR
IN	INCH
KW	KILOWATTS
LB	POUNDS
LAT	LEAVING AIR TEMPERATURE
LVG	LEAVING
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	BTU'S IN THOUSANDS
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MECH	MECHANICAL
MFR	MANUFACTURER
MOD	MOTOR OPERATED DAMPER; MODULATING
NC	NOISE CRITERIA
NO.	NUMBER
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OP	OPERATING
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
RA	RETURN AIR
RAT	RETURN AIR TEMPERATURE
RCP	REFLECTED CEILING PLAN
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
SD	SMOKE DAMPER
SENS	SENSIBLE
SEER	SEASONAL ENERGY EFFICIENCY RATING
SF	SQUARE FOOTAGE
F/SD	FIRE/SMOKE DAMPER
SPE	STATIC PRESSURE EXTERNAL (INCHES W.G.)
SP	STATIC PRESSURE (INCHES W.G.)
SQFT	SQUARE FEET
SS	STAINLESS STEEL
S/T	SENSIBLE TO TOTAL COOLING RATIO
TEMP	TEMPERATURE
TYP	TYPICAL
VTR	VENT THROUGH ROOF
WB	WET BULB
WC	WATER COLUMN
W.G.	WATER GAUGE

GENERAL MECHANICAL NOTES

- CONTRACTOR TO VERIFY EQUIPMENT LOCATIONS, DIMENSIONS, AND COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO THE START OF CONSTRUCTION.
- ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
- ALL WORK IS TO BE IN COMPLIANCE WITH CURRENT CODES AS ADOPTED AND AMENDED BY THE LOCAL JURISDICTION. PROVIDE ALL LABOR AND MATERIAL AS NECESSARY TO MEET THE CURRENT ADOPTED CODES.
- RECORD DRAWINGS OF THE INSTALLATION ARE REQUIRED TO BE PROVIDED BY THE CONTRACTOR WITHIN 30 DAYS OF SUBSTANTIAL COMPLETION. REDLINES OF AS-BUILT PLANS AND SPECIFICATIONS ARE ACCEPTABLE.
- PROVIDE OPERATION AND MAINTENANCE MANUALS WITHIN 30 DAYS OF SUBSTANTIAL COMPLETION OF ALL EQUIPMENT INSTALLED.
- INSTALL ALL EQUIPMENT, PIPING, AND DUCTWORK SEISMICALLY BRACED PER CODE, MANUFACTURER RECOMMENDATIONS, OR STANDARD CONSTRUCTION PRACTICES, WHICHEVER IS MORE STRINGENT.
- ALL DRAWINGS ARE DIAGRAMMATIC IN NATURE SHOWING GENERAL LOCATIONS, GENERAL SPATIAL RELATIONSHIPS, APPROXIMATE DIMENSIONS, ETC., AND HAS BEEN GENERALLY COORDINATED. THE CONTRACTOR IS RESPONSIBLE FOR ACTUAL COORDINATION BETWEEN SYSTEMS, STRUCTURE, OTHER TRADES, ETC. DO NOT SCALE OFF DRAWINGS FOR EXACT DIMENSIONS OF ANY ITEM.
- ALL DUCTWORK PENETRATIONS OF CEILING MUST BE FIRE DAMPERED IF REQUIRED. SEE GRILLES, REGISTERS AND DIFFUSERS SCHEDULE FOR MORE INFORMATION.
- ALL SEALING OF ROOF SHALL BE COMPLETED IN ACCORDANCE WITH ROOFING SYSTEM REQUIREMENTS AND ROOF MANUFACTURERS WARRANTY.
- CONTRACTOR SHALL VERIFY EXACT HEIGHT OF ALL CEILINGS PRIOR TO START OF WORK. SEE ARCHITECTURAL SHEETS FOR CEILING DETAILS AND CONSTRUCTION. COORDINATE EXACT DUCTWORK INSTALLATION WITH CEILING HEIGHTS, TRUSSES AND STRUCTURE AS REQUIRED.
- SEE ELECTRICAL LIGHTING SHEETS FOR EXACT LOCATION OF ALL LIGHT FIXTURES. COORDINATE EXACT DIFFUSER AND GRILLE LOCATIONS WITH LIGHTING FIXTURES AS REQUIRED.
- ALL DUCTWORK SHALL MEET SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE", CURRENT EDITION.
- ALL DIMENSIONS ARE LISTED IN INCHES UNLESS OTHERWISE NOTED. ALL DUCTWORK DIMENSIONS ARE INSIDE CLEAR.
- ALL PLUMBING VENTS, EXHAUST OUTLETS OR GAS FLUES SHALL BE A MINIMUM OF 10'-0" FROM ANY AIR INTAKE INTO THE BUILDING, PER CODE.
- DO NOT CUT, DRILL HOLES OR REMOVE ANY STRUCTURAL MEMBERS, TRUSSES, BEAMS OR PURLINS. ROUTE ALL DUCTWORK, PIPING AND CONDUIT AROUND AND BELOW STRUCTURAL MEMBERS AS REQUIRED. SEE STRUCTURAL DETAILS AND DRAWINGS FOR EXACT METHOD OF ATTACHING HANGERS TO BEAMS AND STRUCTURAL MEMBERS.
- ALL EQUIPMENT PLACEMENT SHALL COMPLY WITH THE CURRENT ADOPTED INTERNATIONAL MECHANICAL CODE.
- CONTRACTOR SHALL PROTECT CONSTRUCTION INDICATED TO REMAIN AGAINST DAMAGE DURING SELECTIVE DEMOLITION WORK.
- IT IS NOT EXPECTED THAT HAZARDOUS MATERIALS WILL BE ENCOUNTERED DURING DEMOLITION. IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, STOP WORK AND IMMEDIATELY NOTIFY ENGINEER.

MECHANICAL LEGEND

		SUPPLY DUCT RISE/DROP
		SIDEWALL SUPPLY GRILLE
		RETURN RISE/DROP
		SIDEWALL RETURN GRILLE
		EXHAUST RISE/DROP
		EXHAUST GRILLE
		BACKDRAFT DAMPER
		DOUBLE WALL TURNING VANES
		FLEX DUCT
		HIDDEN LINE
		1,2,3, AND 4 WAY DIFFUSERS, RESPECTIVELY
		VOLUME DAMPER
		SPIN IN FITTING
		DEMOLISHED DUCT CAP
		M
		THERMOSTAT
		RETURN GRILLE



301 SOUTH 3rd STREET
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ALSEA SCHOOL DISTRICT
1c9-2c22: K-12 BUILDING HVAC UPGRADE



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Date: 9-21-2022
Project: ALS-1821
Version History: V1.0

PHASES (PH):

DESIGN DEVELOPMENT

DRAWING NO.

M0.0

MECHANICAL COVER SHEET

FAN COIL UNIT SCHEDULE 														REMARKS			
NO.	TYPE	AREA	CFM	COOLING				HEATING@ 17°F				ELECTRICAL		APPROXIMATE DIMENSION W x D x H (IN)	WEIGHT (LB)	MANUFACTURER MAKE & MODEL	REMARKS
				TOTAL (MBH)	SENS. (MBH)	EAT DB/WB (°F)	LWT (°F)	TOTAL (MBH)	SENS. (MBH)	EAT (°F)	LWT (°F)	CHAR	MCA				
1A	HIGH WALL DUCTLESS	CLASSROOM E19	775	24.0	18.5	80/67	56	26.0	16.0	70	90	POWERED BY OUTDOOR UNIT	1.0	46 x 12 x 15	46	'MITSUBISHI' TPKA0A0241KA70A	1-3
1B	HIGH WALL DUCTLESS	CLASSROOM E22	775	24.0	18.5	80/67	56	26.0	16.0	70	90	POWERED BY OUTDOOR UNIT	1.0	46 x 12 x 15	46	'MITSUBISHI' TPKA0A0241KA70A	1-3
2A	HIGH WALL DUCTLESS	OFFICE E20	425	12.0	8.2	80/67	57	14.0	8.3	70	88	POWERED BY OUTDOOR UNIT	1.0	37 x 10 x 13	29	'MITSUBISHI' TPKA0A0121HA70A	1-3
2B	HIGH WALL DUCTLESS	OFFICE E21	425	12.0	8.2	80/67	57	14.0	8.3	70	88	POWERED BY OUTDOOR UNIT	1.0	37 x 10 x 13	29	'MITSUBISHI' TPKA0A0121HA70A	1-3
3A	HIGH WALL DUCTLESS	CLASSROOM E19	775	24.0	18.5	80/67	56	26.0	16.0	70	90	POWERED BY OUTDOOR UNIT	1.0	46 x 12 x 15	46	'MITSUBISHI' TPKA0A0241KA70A	1-3
3B	HIGH WALL DUCTLESS	CLASSROOM E19	775	24.0	18.5	80/67	56	26.0	16.0	70	90	POWERED BY OUTDOOR UNIT	1.0	46 x 12 x 15	46	'MITSUBISHI' TPKA0A0241KA70A	1-3
4A	HIGH WALL DUCTLESS	CLASSROOM E23	775	24.0	18.5	80/67	56	26.0	16.0	70	90	POWERED BY OUTDOOR UNIT	1.0	46 x 12 x 15	46	'MITSUBISHI' TPKA0A0241KA70A	1-3
4B	HIGH WALL DUCTLESS	CLASSROOM E23	775	24.0	18.5	80/67	56	26.0	16.0	70	90	POWERED BY OUTDOOR UNIT	1.0	46 x 12 x 15	46	'MITSUBISHI' TPKA0A0241KA70A	1-3
5A	HIGH WALL DUCTLESS	CLASSROOM E02	775	24.0	18.5	80/67	56	26.0	16.0	70	90	POWERED BY OUTDOOR UNIT	1.0	46 x 12 x 15	46	'MITSUBISHI' TPKA0A0241KA70A	1-3
5B	HIGH WALL DUCTLESS	CLASSROOM E02	775	24.0	18.5	80/67	56	26.0	16.0	70	90	POWERED BY OUTDOOR UNIT	1.0	46 x 12 x 15	46	'MITSUBISHI' TPKA0A0241KA70A	1-3
6A	HIGH WALL DUCTLESS	CLASSROOM E04	775	24.0	18.5	80/67	56	26.0	16.0	70	90	POWERED BY OUTDOOR UNIT	1.0	46 x 12 x 15	46	'MITSUBISHI' TPKA0A0241KA70A	1-3
6B	HIGH WALL DUCTLESS	CLASSROOM E04	775	24.0	18.5	80/67	56	26.0	16.0	70	90	POWERED BY OUTDOOR UNIT	1.0	46 x 12 x 15	46	'MITSUBISHI' TPKA0A0241KA70A	1-3
7	HIGH WALL DUCTLESS	BREAK RM E48	437	9.0	8.5	80/67	61	10.9	10.0	70	92	POWERED BY OUTDOOR UNIT	1.0	37 x 10 x 13	29	'MITSUBISHI' NTXWPH09A112AA	1-3
8	CEILING SUSPENDED	HALLWAY E06	990	34.0	33.0	80/67	54	38.0	36.5	70	105	POWERED BY OUTDOOR UNIT	1.22	63 x 27 x 9	84	'MITSUBISHI' TPKA0A0361KA70A	1-3
9A	HIGH WALL DUCTLESS	CLASSROOM E03	775	24.0	18.5	80/67	56	26.0	16.0	70	90	POWERED BY OUTDOOR UNIT	1.0	46 x 12 x 15	46	'MITSUBISHI' TPKA0A0241KA70A	1-3
9B	HIGH WALL DUCTLESS	CLASSROOM E03	775	24.0	18.5	80/67	56	26.0	16.0	70	90	POWERED BY OUTDOOR UNIT	1.0	46 x 12 x 15	46	'MITSUBISHI' TPKA0A0241KA70A	1-3
10A	HIGH WALL DUCTLESS	CLASSROOM E05	775	24.0	18.5	80/67	56	26.0	16.0	70	90	POWERED BY OUTDOOR UNIT	1.0	46 x 12 x 15	46	'MITSUBISHI' TPKA0A0241KA70A	1-3
10B	HIGH WALL DUCTLESS	CLASSROOM E05	775	24.0	18.5	80/67	56	26.0	16.0	70	90	POWERED BY OUTDOOR UNIT	1.0	46 x 12 x 15	46	'MITSUBISHI' TPKA0A0241KA70A	1-3
11	HIGH WALL DUCTLESS	LIBRARY OFFICE E16b	437	6.0	5.8	80/67	66	8.7	6.0	70	95	POWERED BY OUTDOOR UNIT	1.0	37 x 10 x 13	29	'MITSUBISHI' NTXWPH06B112AA	1-3
12A	HIGH WALL DUCTLESS	LIBRARY E16a	775	24.0	18.5	80/67	56	26.0	16.0	70	90	POWERED BY OUTDOOR UNIT	1.0	46 x 12 x 15	46	'MITSUBISHI' TPKA0A0241KA70A	1-3
12B	HIGH WALL DUCTLESS	LIBRARY E16a	775	24.0	18.5	80/67	56	26.0	16.0	70	90	POWERED BY OUTDOOR UNIT	1.0	46 x 12 x 15	46	'MITSUBISHI' TPKA0A0241KA70A	1-3
13A	HIGH WALL DUCTLESS	OLD KITCHEN E30	775	24.0	18.5	80/67	56	26.0	16.0	70	90	POWERED BY OUTDOOR UNIT	1.0	46 x 12 x 15	46	'MITSUBISHI' TPKA0A0241KA70A	1-3
13B	HIGH WALL DUCTLESS	OLD KITCHEN E30	775	24.0	18.5	80/67	56	26.0	16.0	70	90	POWERED BY OUTDOOR UNIT	1.0	46 x 12 x 15	46	'MITSUBISHI' TPKA0A0241KA70A	1-3
14	HIGH WALL DUCTLESS	CLASSROOM E36	920	36.0	18.5	80/67	53	38.0	23.5	70	94	POWERED BY OUTDOOR UNIT	1.0	46 x 12 x 15	46	'MITSUBISHI' TPKA0A0361KA70A	1-3
15A	HIGH WALL DUCTLESS	CLASSROOM E38	775	24.0	18.5	80/67	56	26.0	16.0	70	90	POWERED BY OUTDOOR UNIT	1.0	46 x 12 x 15	46	'MITSUBISHI' TPKA0A0241KA70A	1-3
15B	HIGH WALL DUCTLESS	CLASSROOM E38	775	24.0	18.5	80/67	56	26.0	16.0	70	90	POWERED BY OUTDOOR UNIT	1.0	46 x 12 x 15	46	'MITSUBISHI' TPKA0A0241KA70A	1-3
16	CEILING SUSPENDED	HALLWAY E31	990	34.0	33.0	80/67	54	38.0	36.5	70	105	POWERED BY OUTDOOR UNIT	1.22	63 x 27 x 9	84	'MITSUBISHI' TPKA0A0361KA70A	1-3
17	HIGH WALL DUCTLESS	CLASSROOM E39	920	36.0	18.5	80/67	53	38.0	23.5	70	94	POWERED BY OUTDOOR UNIT	1.0	46 x 12 x 15	46	'MITSUBISHI' TPKA0A0361KA70A	1-3
18	HIGH WALL DUCTLESS	CLASSROOM E36	920	36.0	18.5	80/67	53	38.0	23.5	70	94	POWERED BY OUTDOOR UNIT	1.0	46 x 12 x 15	46	'MITSUBISHI' TPKA0A0361KA70A	1-3
19	HIGH WALL DUCTLESS	STORAGE E33	437	6.0	5.8	80/67	66	8.7	6.0	70	95	POWERED BY OUTDOOR UNIT	1.0	37 x 10 x 13	29	'MITSUBISHI' NTXWPH06B112AA	1-3
20	HIGH WALL DUCTLESS	CLASSROOM E32	920	36.0	18.5	80/67	53	38.0	23.5	70	94	POWERED BY OUTDOOR UNIT	1.0	46 x 12 x 15	46	'MITSUBISHI' TPKA0A0361KA70A	1-3
21A	HIGH WALL DUCTLESS	OFFICE E56	406	6.0	5.8	80/67	66	7.3	10.1	70	80	POWERED BY OUTDOOR UNIT	1.0	37 x 10 x 13	29	'MITSUBISHI' NTXWST06A112AB	1-3
21B	HIGH WALL DUCTLESS	OFFICE E55	406	6.0	5.8	80/67	66	7.3	10.1	70	80	POWERED BY OUTDOOR UNIT	1.0	37 x 10 x 13	29	'MITSUBISHI' NTXWST06A112AB	1-3
21C	HIGH WALL DUCTLESS	OFFICE E54	406	6.0	5.8	80/67	66	7.3	10.1	70	80	POWERED BY OUTDOOR UNIT	1.0	37 x 10 x 13	29	'MITSUBISHI' NTXWST06A112AB	1-3
22A	HIGH WALL DUCTLESS	NURSE E53	406	6.0	5.8	80/67	66	7.3	10.1	70	80	POWERED BY OUTDOOR UNIT	1.0	37 x 10 x 13	29	'MITSUBISHI' NTXWST06A112AB	1-3
22B	HIGH WALL DUCTLESS	OFFICE E51	406	6.0	5.8	80/67	66	7.3	10.1	70	80	POWERED BY OUTDOOR UNIT	1.0	37 x 10 x 13	29	'MITSUBISHI' NTXWST06A112AB	1-3
22C	HIGH WALL DUCTLESS	RECEPTION E50	406	6.0	5.8	80/67	66	7.3	10.1	70	80	POWERED BY OUTDOOR UNIT	1.0	37 x 10 x 13	29	'MITSUBISHI' NTXWST06A112AB	1-3

- 1 PROVIDE ALL ANCILLARY COMPONENTS REQUIRED FOR A FULL INSTALLATION.
- 2 FURNISH WITH 7-DAY HARDWIRED PROGRAMMABLE WALL MOUNTED THERMOSTAT.
- 3 PROVIDE WITH CONDENSATE PUMP, DRAIN PAN AND OVERFLOW SHUTOFF.



301 SOUTH 3rd STREET
ALSEA, OREGON 97324

ALSEA SCHOOL DISTRICT
1c9-2c22: K-12 BUILDING HVAC UPGRADE

HEAT PUMP UNIT SCHEDULE 														REMARKS			
NO.	NOMINAL TONS	TYPE	COOLING PERFORMANCE				HEATING PERFORMANCE				ELECTRICAL		APPROXIMATE UNIT DIMENSION WxDxH (IN)	WEIGHT (LB)	REFRIGERANT	MANUFACTURER MAKE & MODEL	REMARKS
			TOTAL (MBH)	SENS. (MBH)	OUTDOOR TEMP DB (°F)	SEER	TOTAL (MBH)	SENS. (MBH)	OUTDOOR TEMP DB (°F)	HSPF	CHAR	MCA					
1A	2.0	SINGLE	24.0	18.5	89	29.4	26.0	16.0	22	11.0	208/10	19.0	38 x 13 x 37	153	R-410A	'MITSUBISHI' TRUZA0241HA70NA	1,2
1B	2.0	SINGLE	24.0	18.5	89	29.4	26.0	16.0	22	11.0	208/10	19.0	38 x 13 x 37	153	R-410A	'MITSUBISHI' TRUZA0241HA70NA	1,2
2	2.0	MULTI	24.0	23.3	89	20.8	26.0	16.5	22	10.2	208/10	19.0	38 x 13 x 37	153	R-410A	'MITSUBISHI' TRUZA0241HA70NA	1,2
3A	2.0	SINGLE	24.0	18.5	89	29.4	26.0	16.0	22	11.0	208/10	19.0	38 x 13 x 37	153	R-410A	'MITSUBISHI' TRUZA0241HA70NA	1,2
3B	2.0	SINGLE	24.0	18.5	89	29.4	26.0	16.0	22	11.0	208/10	19.0	38 x 13 x 37	153	R-410A	'MITSUBISHI' TRUZA0241HA70NA	1,2
4A	2.0	SINGLE	24.0	18.5	89	29.4	26.0	16.0	22	11.0	208/10	19.0	38 x 13 x 37	153	R-410A	'MITSUBISHI' TRUZA0241HA70NA	1,2
4B	2.0	SINGLE	24.0	18.5	89	29.4	26.0	16.0	22	11.0	208/10	19.0	38 x 13 x 37	153	R-410A	'MITSUBISHI' TRUZA0241HA70NA	1,2
5A	2.0	SINGLE	24.0	18.5	89	29.4	26.0	16.0	22	11.0	208/10	19.0	38 x 13 x 37	153	R-410A	'MITSUBISHI' TRUZA0241HA70NA	1,2
5B	2.0	SINGLE	24.0	18.5	89	29.4	26.0	16.0	22	11.0	208/10	19.0	38 x 13 x 37	153	R-410A	'MITSUBISHI' TRUZA0241HA70NA	1,2
6A	2.0	SINGLE	24.0	18.5	89	29.4	26.0	16.0	22	11.0	208/10	19.0	38 x 13 x 37	153	R-410A	'MITSUBISHI' TRUZA0241HA70NA	1,2
6B	2.0	SINGLE	24.0	18.5	89	29.4	26.0	16.0	22	11.0	208/10	19.0	38 x 13 x 37	153	R-410A	'MITSUBISHI' TRUZA0241HA70NA	1,2
7	0.75	SINGLE	0.75	9.0	89	30.5	10.9	10.0	22	13.5	208/10	11.0	31 x 11 x 21	81	R-410A	'MITSUBISHI' NTXSPH09A112AA	1,2
8	3.0	SINGLE	34.0	33.0	89	16.6	38.0	36.5	22	10.3	208/10	28.0	42 x 13 x 53	214	R-410A	'MITSUBISHI' TRUZH0361HA50NA	1,2
9A	2.0	SINGLE	24.0	18.5	89	29.4	26.0	16.0	22	11.0	208/10	19.0	38 x 13 x 37	153	R-410A	'MITSUBISHI' TRUZA0241HA70NA	1,2
9B	2.0	SINGLE	24.0	18.5	89	29.4	26.0	16.0	22	11.0	208/10	19.0	38 x 13 x 37	153	R-410A	'MITSUBISHI' TRUZA0241HA70NA	1,2
10A	2.0	SINGLE	24.0	18.5	89	29.4	26.0	16.0	22	11.0	208/10	19.0	38 x 13 x 37	153	R-410A	'MITSUBISHI' TRUZA0241HA70NA	1,2
10B	2.0	SINGLE	24.0	18.5	89	29.4	26.0	16.0	22	11.0	208/10	19.0	38 x 13 x 37	153	R-410A	'MITSUBISHI' TRUZA0241HA70NA	1,2
11	0.5	SINGLE	6.0	5.8	89	33.1	8.7	6.0	22	13.5	208/10	10.0	31 x 11 x 21	81	R-410A	'MITSUBISHI' NTXSPH06B112AA	1,2
12A	2.0	SINGLE	24.0	18.5	89	29.4	26.0	16.0	22	11.0	208/10	19.0	38 x 13 x 37	153	R-410A	'MITSUBISHI' TRUZA0241HA70NA	1,2
12B	2.0	SINGLE	24.0	18.5	89	29.4	26.0	16.0	22	11.0	208/10	19.0	38 x 13 x 37	153	R-410A	'MITSUBISHI' TRUZA0241HA70NA	1,2
13A	2.0	SINGLE	24.0	18.5	89	29.4	26.0	16.0	22	11.0	208/10	19.0	38 x 13 x 37	153	R-410A	'MITSUBISHI' TRUZA0241HA70NA	1,2
13B	2.0	SINGLE	24.0	18.5	89	29.4	26.0	16.0	22	11.0	208/10	19.0	38 x 13 x 37	153	R-410A	'MITSUBISHI' TRUZA0241HA70NA	1,2
14	3.0	SINGLE	36.0	23.4	89	18.80	38.0	23.4	22	9.2	208/10	25.0	42 x 13 x 53	214	R-410A	'MITSUBISHI' TRUZA0361KA70NA	1,2
15A	2.0	SINGLE	24.0	18.5	89	29.4	26.0	16.0	22	11.0	208/10	19.0	38 x 13 x 37	153	R-410A	'MITSUBISHI' TRUZA0241HA70NA	1,2
15B	2.0	SINGLE	24.0	18.5	89	29.4	26.0	16.0	22	11.0	208/10	19.0	38 x 13 x 37	153	R-410A	'MITSUBISHI' TRUZA0241HA70NA	1,2
16	3.0	SINGLE	33.4	33.0	89	16.6	38.0	36.5	22	10.3	208/10	28.0	42 x 13 x 53	214	R-410A	'MITSUBISHI' TRUZH0361HA50NA	1,2
17																	

COMcheck Software Version COMcheckWeb
Mechanical Compliance Certificate

Project Information

Energy Code: 90.1 (2019) Standard
 Project Title: ALSEA SCHOOL DISTRICT 1C9-2C22
 Location: Corvallis, Oregon
 Climate Zone: 4c
 Project Type: Alteration

Construction Site: 301 S 3rd St, Alsea, Oregon 97324
 Owner/Agent:
 Designer/Contractor: Peter Bibikov, Value Engineering, 119 E Calderwood Dr #101, Meridian, Idaho 83642, +12082587016, peter@v-engineering.com

Mechanical Systems List

Quantity System Type & Description

- 20 HP CLASSROOM (2-TON SINGLE SPLIT)
 Split System Heat Pump
 Heating Mode: Capacity = 26 kBtu/h, Proposed Efficiency = 11.00 HSPF, Required Efficiency = 8.20 HSPF
 Cooling Mode: Capacity = 24 kBtu/h, Proposed Efficiency = 29.40 SEER, Required Efficiency = 14.00 SEER
 Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00
 Fan System: 775 cfm | Classrooms -- Compliance (Motor nameplate HP and fan efficiency method) : Passes
 Fans:
 FAN 1 Supply, Constant Volume, 775 CFM, 0.1 motor nameplate hp, 0.10 fan energy index, fan exception: Single fan < 1 HP or < 0.89 kW
 SYSTEM VERIFICATION REQUIRED.
- 5 HP CLASSROOM (3-TON SINGLE SPLIT)
 Split System Heat Pump
 Heating Mode: Capacity = 36 kBtu/h, Proposed Efficiency = 9.20 HSPF, Required Efficiency = 8.20 HSPF
 Cooling Mode: Capacity = 38 kBtu/h, Proposed Efficiency = 18.80 SEER, Required Efficiency = 14.00 SEER
 Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00
 Fan System: 920 CFM | CLASSROOM -- Compliance (Motor nameplate HP and fan efficiency method) : Passes
 Fans:
 FAN 3 Supply, Constant Volume, 920 CFM, 0.1 motor nameplate hp, 0.10 fan energy index, fan exception: Single fan < 1 HP or < 0.89 kW
 SYSTEM VERIFICATION REQUIRED.
- 1 HP-2 (2-TON MULTI SPLIT)
 Split System Heat Pump
 Heating Mode: Capacity = 24 kBtu/h, Proposed Efficiency = 10.20 HSPF, Required Efficiency = 8.20 HSPF
 Cooling Mode: Capacity = 26 kBtu/h, Proposed Efficiency = 20.80 SEER, Required Efficiency = 14.00 SEER
 Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00
 Fan System: 425 CFM | OFFICE E20, E21 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes
 Fans:
 FAN 5 Supply, Constant Volume, 425 CFM, 0.1 motor nameplate hp, 0.10 fan energy index, fan exception: Single fan < 1 HP or < 0.89 kW
 SYSTEM VERIFICATION REQUIRED.

Project Title: ALSEA SCHOOL DISTRICT 1C9-2C22 Report date: 09/21/22
 Data filename: Page 1 of 25

Quantity System Type & Description

- FAN 5 Supply, Constant Volume, 425 CFM, 0.1 motor nameplate hp, 0.10 fan energy index, fan exception: Single fan < 1 HP or < 0.89 kW
 FAN 4 Supply, Constant Volume, 425 CFM, 0.1 motor nameplate hp, 0.10 fan energy index, fan exception: Single fan < 1 HP or < 0.89 kW
 SYSTEM VERIFICATION REQUIRED.
- 1 HP-7 (0.75 TON SINGLE SPLIT)
 Split System Heat Pump
 Heating Mode: Capacity = 10 kBtu/h, Proposed Efficiency = 13.50 HSPF, Required Efficiency = 8.20 HSPF
 Cooling Mode: Capacity = 9 kBtu/h, Proposed Efficiency = 30.50 SEER, Required Efficiency = 14.00 SEER
 Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00
 Fan System: 437 CFM | BREAK RM E48 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes
 Fans:
 FAN 6 Supply, Constant Volume, 437 CFM, 0.1 motor nameplate hp, 0.10 fan energy index, fan exception: Single fan < 1 HP or < 0.89 kW
 SYSTEM VERIFICATION REQUIRED.
- 2 HP-16 (3-TON SINGLE SPLIT)
 Split System Heat Pump
 Heating Mode: Capacity = 38 kBtu/h, Proposed Efficiency = 10.30 HSPF, Required Efficiency = 8.20 HSPF
 Cooling Mode: Capacity = 34 kBtu/h, Proposed Efficiency = 38.00 SEER, Required Efficiency = 14.00 SEER
 Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00
 Fan System: 990 CFM | HALLWAY -- Compliance (Motor nameplate HP and fan efficiency method) : Passes
 Fans:
 FAN 7 Supply, Constant Volume, 990 CFM, 0.1 motor nameplate hp, 0.10 fan energy index, fan exception: Single fan < 1 HP or < 0.89 kW
 SYSTEM VERIFICATION REQUIRED.
- 1 HP-11 (0.5 TON SINGLE SPLIT)
 Split System Heat Pump
 Heating Mode: Capacity = 8 kBtu/h, Proposed Efficiency = 13.50 HSPF, Required Efficiency = 8.20 HSPF
 Cooling Mode: Capacity = 6 kBtu/h, Proposed Efficiency = 33.50 SEER, Required Efficiency = 14.00 SEER
 Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00
 Fan System: 437 CFM 2 | LIBRARY OFFICE -- Compliance (Motor nameplate HP and fan efficiency method) : Passes
 Fans:
 FAN 8 Supply, Constant Volume, 437 CFM, 0.1 motor nameplate hp, 0.10 fan energy index, fan exception: Single fan < 1 HP or < 0.89 kW
 SYSTEM VERIFICATION REQUIRED.
- 2 HP-21,22 (MULTI SPLIT)
 Split System Heat Pump
 Heating Mode: Capacity = 12 kBtu/h, Proposed Efficiency = 9.50 HSPF, Required Efficiency = 8.20 HSPF
 Cooling Mode: Capacity = 22 kBtu/h, Proposed Efficiency = 18.00 SEER, Required Efficiency = 14.00 SEER
 Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00
 Fan System: 406 CFM | OFFICE -- Compliance (Motor nameplate HP and fan efficiency method) : Passes
 Fans:
 FAN 11 Supply, Constant Volume, 406 CFM, 0.1 motor nameplate hp, 0.10 fan energy index, fan exception: Single fan < 1 HP or < 0.89 kW
 FAN 10 Supply, Constant Volume, 406 CFM, 0.1 motor nameplate hp, 0.10 fan energy index, fan exception: Single fan < 1 HP or < 0.89 kW
 FAN 9 Supply, Constant Volume, 406 CFM, 0.1 motor nameplate hp, 0.10 fan energy index, fan exception: Single fan < 1 HP or < 0.89 kW
 SYSTEM VERIFICATION REQUIRED.

Project Title: ALSEA SCHOOL DISTRICT 1C9-2C22 Report date: 09/21/22
 Data filename: Page 2 of 25

Quantity System Type & Description

- 2 EUH-1,2
 Heating: 1 each - Unit Heater, Electric, Capacity = 6 kBtu/h
 No minimum efficiency requirement applies
 Fan System: 65 CFM | HALLWAY AND RR -- Compliance (Motor nameplate HP and fan efficiency method) : Passes
 Fans:
 FAN 12 Supply, Constant Volume, 65 CFM, 0.1 motor nameplate hp, 0.10 fan energy index, fan exception: Single fan < 1 HP or < 0.89 kW
 SYSTEM VERIFICATION REQUIRED.
- 4 EUH-3,4,5,6
 Heating: 1 each - Unit Heater, Electric, Capacity = 2 kBtu/h
 No minimum efficiency requirement applies
 Fan System: 65 CFM | HALLWAY AND RR -- Compliance (Motor nameplate HP and fan efficiency method) : Passes
 Fans:
 FAN 12 Supply, Constant Volume, 65 CFM, 0.1 motor nameplate hp, 0.10 fan energy index, fan exception: Single fan < 1 HP or < 0.89 kW
 SYSTEM VERIFICATION REQUIRED.
- 1 EUH-7
 Heating: 1 each - Unit Heater, Electric, Capacity = 7 kBtu/h
 No minimum efficiency requirement applies
 Fan System: 350 CFM -- Compliance (Motor nameplate HP and fan efficiency method) : Passes
 Fans:
 FAN 13 Supply, Constant Volume, 350 CFM, 0.1 motor nameplate hp, 0.10 fan energy index, fan exception: Single fan < 1 HP or < 0.89 kW
 SYSTEM VERIFICATION REQUIRED.
- 4 EUH-8,9,10,11
 Heating: 1 each - Unit Heater, Electric, Capacity = 13 kBtu/h
 No minimum efficiency requirement applies
 Fan System: 150 CFM | LOCKER -- Compliance (Motor nameplate HP and fan efficiency method) : Passes
 Fans:
 FAN 14 Supply, Constant Volume, 150 CFM, 0.1 motor nameplate hp, 0.10 fan energy index, fan exception: Single fan < 1 HP or < 0.89 kW
 SYSTEM VERIFICATION REQUIRED.
- 1 RTU-1
 Single Package Heat Pump
 Heating Mode: Capacity = 31 kBtu/h, Proposed Efficiency = 8.00 HSPF, Required Efficiency = 8.00 HSPF
 Cooling Mode: Capacity = 34 kBtu/h, Proposed Efficiency = 16.00 SEER, Required Efficiency = 14.00 SEER
 Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00
 Fan System: 1200 CFM | OFFICES -- Compliance (Motor nameplate HP and fan efficiency method) : Passes
 Fans:
 FAN 14 Supply, Constant Volume, 1200 CFM, 0.8 motor nameplate hp, 0.75 fan energy index, fan exception: Single fan < 1 HP or < 0.89 kW
 SYSTEM VERIFICATION REQUIRED.
- 1 RTU-2
 Single Package Heat Pump
 Heating Mode: Capacity = 262 kBtu/h, Proposed Efficiency = 3.30 COP, Required Efficiency = 3.30 COP
 Cooling Mode: Capacity = 77 kBtu/h, Air Economizer
 Proposed Efficiency = 11.50 EER, Required Efficiency = 11.00 EER
 Proposed Part Load Efficiency = 15.50 IEER, Required Part Load Efficiency = 12.20 IEER
 Fan System: 4000 CFM | GYM -- Compliance (Motor nameplate HP and fan efficiency method) : Passes
 Fans:
 FAN 16 Supply, Constant Volume, 4000 CFM, 2.8 motor nameplate hp, 2.80 fan energy index
 SYSTEM VERIFICATION REQUIRED.

Quantity System Type & Description

SYSTEM VERIFICATION REQUIRED.

Mechanical Compliance Statement

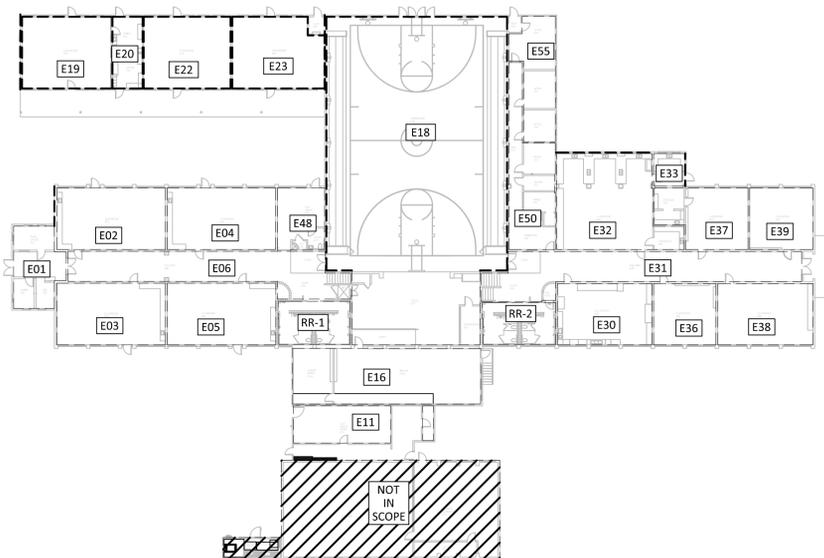
Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 90.1 (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Peter Bibikov Signature 9/21/22
 Name - Title Date

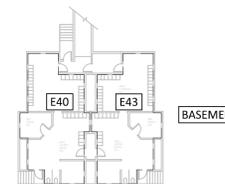
LOAD CALCULATION SUMMARY FORM

ZONE	ROOM NAME	EQUIPMENT	SQFT	COOLING LOAD WITH FRESH AIR (MBH)	HEATING LOAD WITH FRESH AIR (MBH)	VENTILATION TYPE
E01	OFFICES ENTRY	RTU-1	502	13.1	20.7	NATURAL
E02	CLASSROOM	FC/HP-5A,5B	940	28.2	26.0	NATURAL
E03	CLASSROOM	FC/HP-9A,9B	946	32.7	26.0	NATURAL
E04	CLASSROOM	FC/HP-6A,6B	945	28.0	24.6	NATURAL
E05	CLASSROOM	FC/HP-10A,10B	947	27.6	36.0	NATURAL
E06	HALLWAY	FC/HP-8, EUH-1	1475	7.8	45.3	MECHANICAL
E11	BOILER	EUH-7	514	-	2.0	-
E16	LIBRARY	FC/HP-11,12A,12B	1467	32.9	31.5	MECHANICAL
E18	GYM	RTU-2	7785	-	235.0	MECHANICAL
E19	CLASSROOM	FC/HP-1A,1B	940	32.6	31.5	NATURAL
E20	OFFICES	FC/HP-2A,2B	302	4.4	10.5	NATURAL
E22	CLASSROOM	FC/HP-3A,3B	905	32.5	28.2	NATURAL
E23	CLASSROOM	FC/HP-4A,4B	895	31.0	26.1	NATURAL
E30	KITCHEN	FC/HP-13A,13B	820	32.2	22.8	NATURAL
E31	HALLWAY	FC/HP-16, EUH-2	1475	8.6	46.8	MECHANICAL
E32	CLASSROOM	FC/HP-20	1395	25.0	16.6	NATURAL
E33	STORAGE	FC/HP-19	144	2.3	4.6	NATURAL
E36	CLASSROOM	FC/HP-14	540	22.1	15.3	NATURAL
E37	CLASSROOM	FC/HP-18	702	16.8	15.4	NATURAL
E38	CLASSROOM	FC/HP-15A,15B	821	36.2	25.4	NATURAL
E39	CLASSROOM	FC/HP-17	555	16.5	17.4	NATURAL
E40	LOCKER	EUH-8,10	950	-	24.0	-
E43	LOCKER	EUH-9,11	950	-	24.0	-
E48	BREAK RM	FC/HP-7	402	10.8	9.4	NATURAL
E50	RECEPTION	FC/HP-22A,B,C	754	8.0	16.7	MECHANICAL
E55	OFFICES	FC/HP-21A,B,C	615	12.3	14.9	MECHANICAL
RR-1	RESTROOM	EUH-3,4	400	-	3.0	-
RR-2	RESTROOM	EUH-5,6	400	-	3.0	-

- MECHANICAL SYSTEMS HAVE BEEN DESIGNED UNDER THE 2018 AHSRAE 90.1.
- LOAD CALCULATIONS HAVE BEEN PERFORMED IN ACCORDANCE WITH ASHRAE 183.
- DUCT SEALING SHALL BE PERFORMED IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE.
- ALL THERMOSTATS CONTROLLING HVAC SYSTEMS SHALL BE 7-DAY, SOLID STATE, PROGRAMMABLE THERMOSTATS WITH NIGHT SETBACK CAPABILITIES AT A MINIMUM.



1 MAIN LEVEL MECHANICAL ZONE PLAN
 SCALE: NTS



2 LOWER LEVEL MECHANICAL ZONE PLAN
 SCALE: NTS

COMMISSIONING REQUIREMENT

- A COMMISSIONING AGENT WILL BE PROVIDING COMMISSIONING FOR THIS PROJECT. THE CONTRACTOR IS REQUIRED TO PROVIDE ALL NECESSARY DOCUMENTATION, SUPPORT AND ACCESS FOR VERIFICATION AS REQUIRED BY THE COMMISSIONING AGENT. CONTRACTOR IS ALSO REQUIRED TO ATTEND COORDINATION MEETINGS AS REQUIRED. TESTING, ADJUSTING AND BALANCING (TAB) WILL ALSO BE COMPLETED. THE CONTRACTOR SHALL MAKE MODIFICATIONS TO CONTROL SEQUENCES AS DEEMED NECESSARY BY BOTH THE TAB AND COMMISSIONING AGENT TO ENSURE PROPER FUNCTION OF THE SYSTEM.
- COMMISSIONING SHALL BE PERFORMED AS STATED IN OREGON EFFICIENCY CODE SECTIONS 4.2.5. COMMISSIONING MUST UTILIZE ASHRAE/JES STANDARD 202 OR OTHER GENERALLY ACCEPTED ENGINEERING STANDARDS ACCESSIBLE TO THE BUILDING OFFICIAL. FPT AND VERIFICATION REQUIREMENTS FOR COMMISSIONING ARE AS STATED IN SECTION 4.2.5.1. COMMISSIONING SHALL DOCUMENT COMPLIANCE OF THE BUILDING SYSTEMS, CONTROLS, AND BUILDING ENVELOPE WITH REQUIRED PROVISIONS OF THIS STANDARD. COMMISSIONING REQUIREMENTS SHALL BE INCORPORATED INTO THE CONSTRUCTION DOCUMENTS.



301 SOUTH 3rd STREET
 ALSEA, OREGON 97324

ALSEA SCHOOL DISTRICT
1c9-2c22: K-12 BUILDING HVAC UPGRADE



STRAIGHTLINE ARCHITECTURE
 4521 South Cloverdale Road
 Suite 102 - Paisley, Idaho 83709
 P: 208.991.0855
 F: Scott@straightline.biz
 W: www.straightlinearchitects.com

Date: 9-21-2022
 Project: ALS-1821
 Version History: V1.0

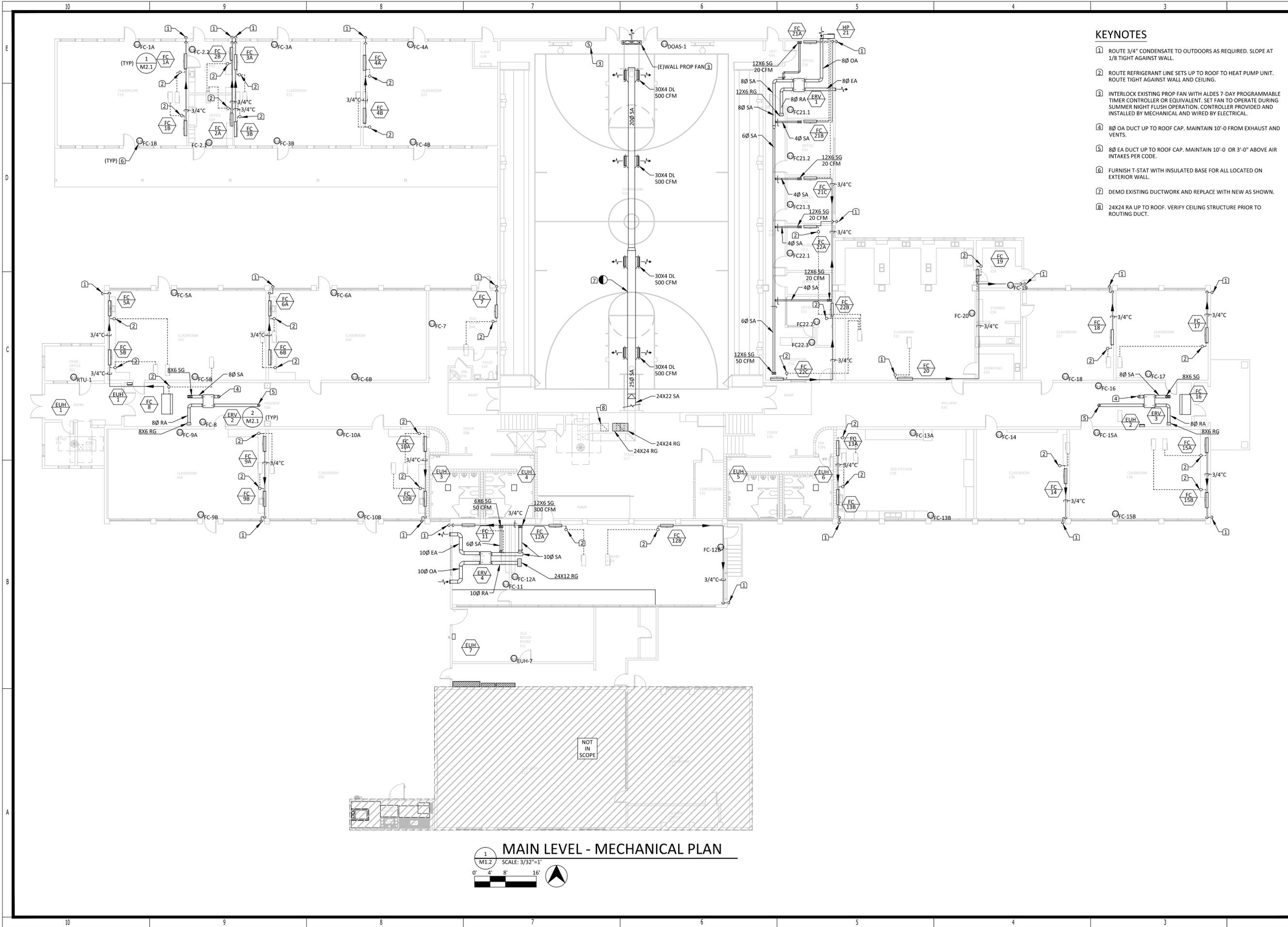
PHASES (PH):

DESIGN DEVELOPMENT

DRAWING NO.

M0.2

ENERGY COMPLIANCE SHEET



- ### KEYNOTES
- 1 ROUTE 3/4" CONDENSATE TO OUTDOORS AS REQUIRED. SLOPE AT 1/8" TIGHT AGAINST WALL.
 - 2 ROUTE REFRIGERANT LINE SETS UP TO ROOF TO HEAT PUMP UNIT. ROUTE TIGHT AGAINST WALL AND CEILING.
 - 3 INTERLOCK EXISTING PROP FAN WITH ALDES 7-DAY PROGRAMMABLE TIMER CONTROLLER OR EQUIVALENT. SET FAN TO OPERATE DURING SUMMER NIGHT FLUSH OPERATION. CONTROLLER PROVIDED AND INSTALLED BY MECHANICAL AND WIRED BY ELECTRICAL.
 - 4 8" Ø OA DUCT UP TO ROOF CAP. MAINTAIN 10'-0" FROM EXHAUST AND VENTS.
 - 5 8" Ø EA DUCT UP TO ROOF CAP. MAINTAIN 10'-0" OR 3'-0" ABOVE AIR INTAKES PER CODE.
 - 6 FURNISH T-STAT WITH INSULATED BASE FOR ALL LOCATED ON EXTERIOR WALL.
 - 7 DEMO EXISTING DUCTWORK AND REPLACE WITH NEW AS SHOWN.
 - 8 24X24 RA UP TO ROOF. VERIFY CEILING STRUCTURE PRIOR TO ROUTING DUCT.



301 SOUTH 3rd STREET
ALSEA, OREGON 97324

ALSEA SCHOOL DISTRICT 1c9-2c22: K-12 BUILDING HVAC UPGRADE



STRAIGHTLINE
ARCHITECTURE

4521 South Cloverdale Road
Suite 102 - Boise Idaho 83709
P: 208.991.0855
F: Scott@straightline.biz
W: www.straightlinearchitects.com

Date: 9-21-2022
Project: ALS-1821
Version History: V1.0

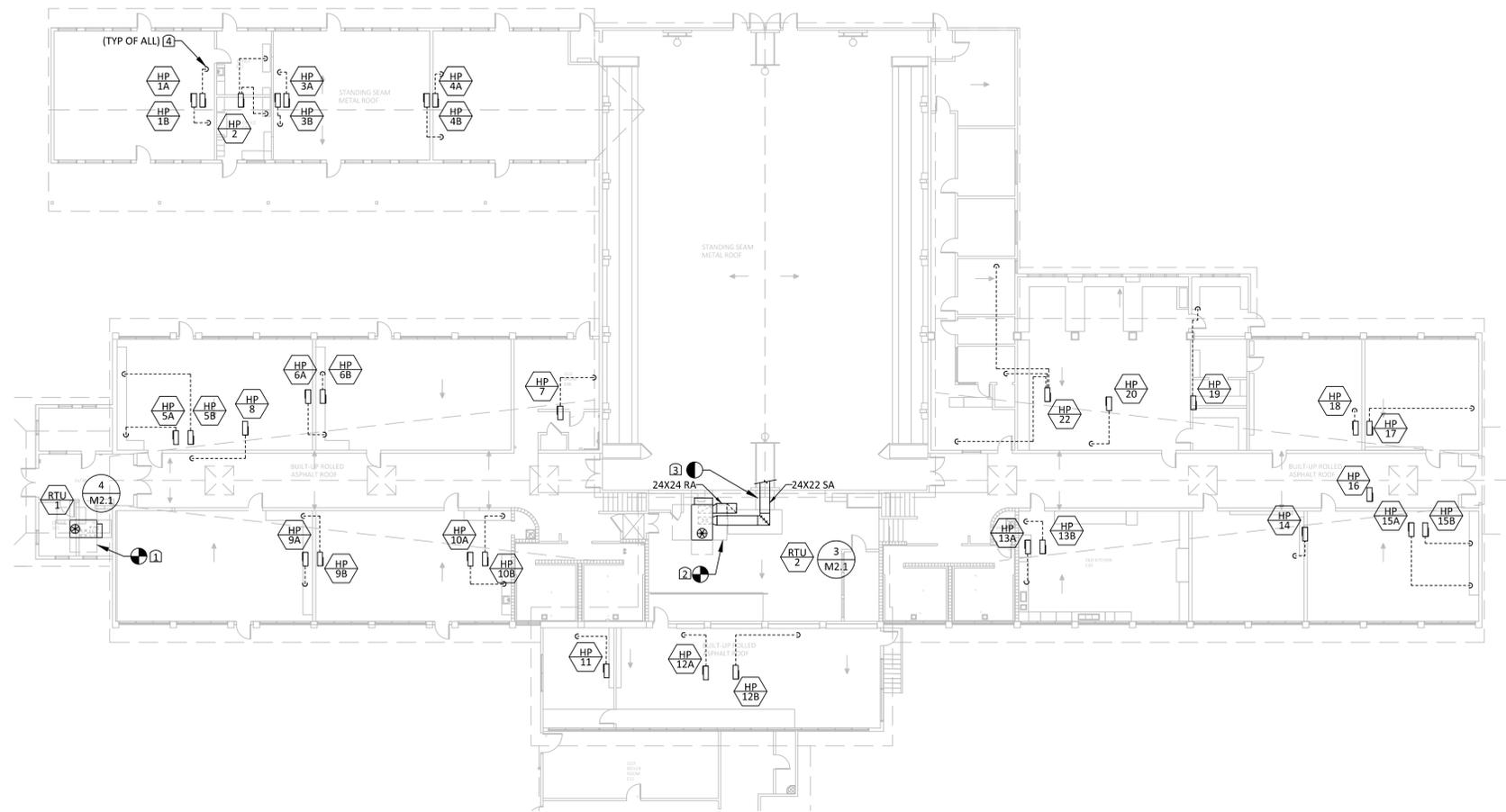
PHASES (PH):
DESIGN DEVELOPMENT

DRAWING NO.
M1.1
MECHANICAL PLAN

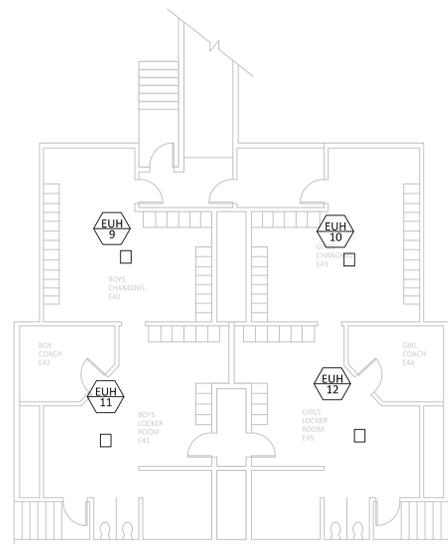
1
M1.2 SCALE: 3/32"=1'
0' 4' 8' 16'

MAIN LEVEL - MECHANICAL PLAN

NOT IN SCOPE



1
M1.2 SCALE: 1/16"=1'
0' 8' 16' 32'



2
M1.2 SCALE: 3/32"=1'
0' 4' 8' 16'

KEYNOTES

- 1 DEMO EXISTING RTU WITH CURB AND LEGALLY DISPOSE OF. REPLACE WITH NEW AS SHOWN. RECONNECT DUCTWORK AND POWER AS REQUIRED.
- 2 DEMO EXISTING MECHANICAL UNIT WITH CURB AND LEGALLY DISPOSE OF. REPLACE WITH NEW AS SHOWN.
- 3 DEMO EXISTING DUCTWORK AND LEGALLY DISPOSE OF. REPLACE WITH NEW AS SHOWN.
- 4 REFRIGERANT LINE SET DOWN TO INDOOR FAN COIL UNIT. SEE DETAIL 1/M2.1.



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STRAIGHTLINE
ARCHITECTURE

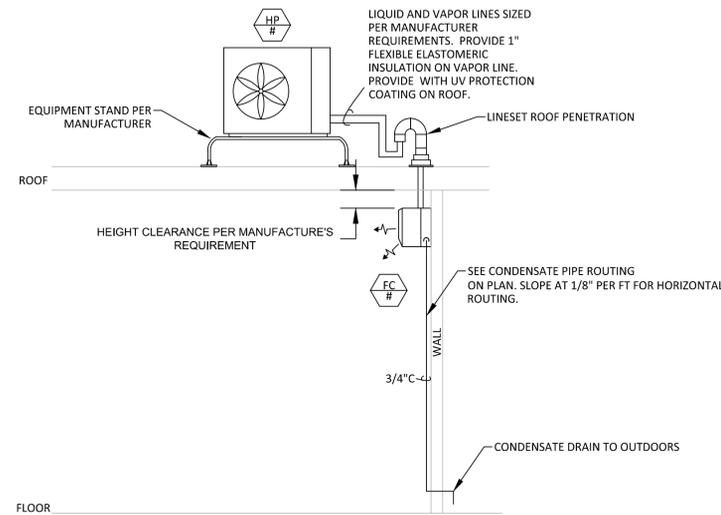
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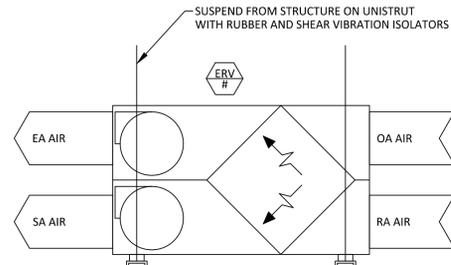
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DESIGN DEVELOPMENT

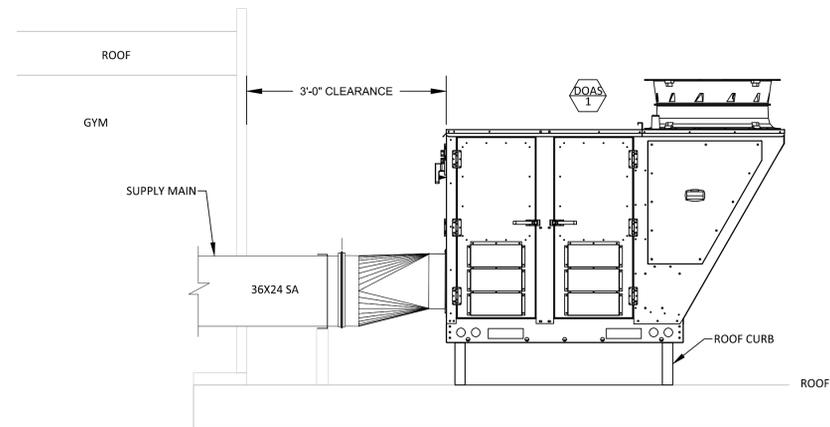
DRAWING NO.
M1.2
MECHANICAL PLAN



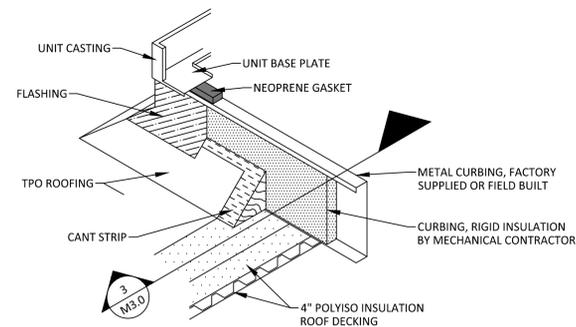
1
M2.1 SCALE: NTS
DUCTLESS SPLIT SYSTEM DETAIL



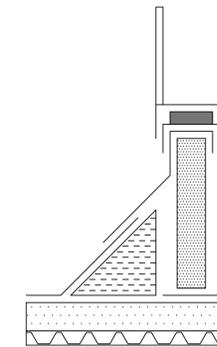
2
M1.1 SCALE: NTS
ENERGY RECOVERY VENTILATOR



3
M2.1 SCALE: NTS
DEDICATED OUTSIDE AIR UNIT DETAIL



4
M2.1 SCALE: NTS
ISOMETRIC ROOFCURB DETAIL



5
M2.1 SCALE: NTS
ROOFCURB SECTION DETAIL



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PHASES (PH):

DESIGN DEVELOPMENT

DRAWING NO.

M2.1

MECHANICAL SCHEDULES

GENERAL

SCOPE OF WORK

- CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED LABOR, EQUIPMENT, AND MATERIALS AS SHOWN OR INDICATED IN THESE DRAWINGS. CONTRACTOR SHALL ALSO PROVIDE ANY REQUIRED SUPPORTING MATERIALS IN ORDER TO PROVIDE A FULLY FUNCTIONING SYSTEM AS PER THE DESIGN INTENT OF THESE DRAWINGS.
- PROPER AND REASONABLE EFFORT TO ENSURE COMPLETE CONSTRUCTIONS DOCUMENTS HAS BEEN PROVIDED ON THESE DRAWINGS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE TO VERIFY DRAWINGS AND LOOK FOR ANY INACCURACIES BEFORE BIDDING ON PROJECT. IF ANY INACCURACIES ARE NOTICED, PLEASE REPORT THEM TO THE ENGINEER AS SOON AS POSSIBLE. DO NOT BID OR PERFORM ANY WORK BEFORE NOTIFYING ENGINEER OF THESE DISCREPANCIES.
- CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY FEES, PERMITS, AND INSPECTIONS REQUIRED TO COMPLETE THE WORK INTENDED IN THESE DOCUMENTS.
- COORDINATE ALL ROOF AND WALL PENETRATIONS WITH STRUCTURAL ENGINEER AND ROOFING CONTRACTOR TO ENSURE ALL PENETRATIONS ARE PROPERLY SEALED AND SUPPORTED.
- PROVIDE ALL NECESSARY WORK INCLUDING ELECTRICAL, STRUCTURAL, AND ARCHITECTURAL TO COMPLETE THE WORK SHOWN IN THESE DRAWINGS UNLESS THAT WORK IS SPECIFICALLY CALLED OUT UNDER ANOTHER DIVISION.
- COORDINATE ALL WORK WITH ALL OTHER DIVISIONS IN ORDER TO ENSURE WORK IS FULLY COMPLETED. ALSO COORDINATE THIS WORK WITH THE GENERAL CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE TO PROVIDE ANY NECESSARY SEISMIC RESTRAINTS PER LISTED CODE, MANUFACTURER, AND STANDARD RECOMMENDATIONS.
- THE CONTRACTOR IS RESPONSIBLE TO REPAIR ANY AND ALL DAMAGE THAT OCCURS AS A RESULT OF THE WORK ON THIS PROJECT. WORK MUST BE REPAIRED TO A CONDITION THAT IS ACCEPTED BY OWNER.
- CONTRACTOR SHALL ONLY EMPLOYEE COMPETENT, QUALITY TRADESMEN IN THE TRADE THEY ARE SKILLED IN FOR THE WORK THEY ARE PROVIDING.
- CONTRACTOR SHALL PROVIDE AND INSTALL NEW MATERIALS AND EQUIPMENT UNLESS THOSE MATERIALS OR EQUIPMENT ARE SPECIFICALLY STATED TO BE REUSED.
- ANY MATERIALS OR TRIM THAT IS REQUIRED IN ORDER TO MAKE A SYSTEM OPERATE PROPERLY SHALL BE PROVIDED AND INSTALLED EVEN IF THOSE MATERIALS ARE NOT SHOWN IN THESE DRAWINGS.
- IF ANY TESTING IS REQUIRED FOR THIS WORK, CONTRACTOR IS RESPONSIBLE FOR PROVIDING ANY REQUIRED MATERIAL, EQUIPMENT, OR LABOR.
- ARCHITECT, ENGINEER, OWNER, OR HIS/HER REPRESENTATIVE MAY INSPECT THE WORK AT ANY TIME. IF WORK HAS BEEN COVERED, IT SHALL BE UNCOVERED FOR INSPECTION.
- GET APPROVAL IN WRITING FROM OWNER, ARCHITECT, AND ENGINEER BEFORE PERFORMING ANY ADDITIONAL WORK YOU EXPECT TO BE COMPENSATED FOR.

EQUIPMENT AND MATERIAL HANDLING

- ENSURE EQUIPMENT AND MATERIAL ORDERS ARE DELIVERED IN A TIMELY MANNER IN ORDER TO ENSURE PROJECT SCHEDULE IS CONFORMED TO.
- CONTRACTOR IS RESPONSIBLE TO ENSURE EQUIPMENT AND MATERIAL IS NOT DAMAGED WHEN DELIVERED. ANY DAMAGED ITEMS SHALL BE REPLACED AT NO COST TO THE OWNER.
- COORDINATE WITH THE GENERAL CONTRACTOR AND OWNER IN ORDER TO LOCATE A SAFE AND CLEAN SPACE IN ORDER TO STORE MATERIALS, EQUIPMENT, AND TOOLS IN AN ORGANIZED MANNER.
- COORDINATE WORK AREAS WITH GENERAL CONTRACTOR TO ENSURE WORKPLACE SAFETY AND CONTRACTOR COORDINATION.
- DAMAGED OR LOST EQUIPMENT OR MATERIALS SHALL BE REPLACED AT NO COST TO THE OWNER.
- CONTRACTOR IS RESPONSIBLE TO PROVIDE A ONE YEAR WARRANTY FOR ALL WORK COMPLETED ON THIS PROJECT. WARRANTY COVERAGE SHALL INCLUDE EQUIPMENT, CRAFTSMANSHIP, AND ALL OTHER MATERIALS.

STANDARDS AND CODES

- ALL MATERIALS AND WORK COMPLETED BY CONTRACTOR SHALL BE PERFORMED PER ALL CODE, MANUFACTURER, AND OWNER REQUIREMENTS, WHICHEVER IS MOST STRINGENT.
- CONTRACTOR SHALL FOLLOW THE MOST RECENTLY ADOPTED EDITIONS OF THE FOLLOWING CODES AND STANDARDS:
 - EXISTING BUILDING CODE OF OREGON
 - OREGON FIRE CODE
 - NATIONAL FIRE PROTECTION ASSOCIATION
 - INTERNATIONAL FUEL GAS CODE
 - OREGON ENERGY EFFICIENCY SPECIALTY CODE
 - OREGON MECHANICAL SPECIALTY CODE
 - OREGON PLUMBING SPECIALTY CODE
 - AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS
 - SHEET METAL AND AIR CONDITIONING NATIONAL ASSOCIATION
 - ALL OTHER APPLICABLE LAWS AND REGULATIONS
- THESE DRAWINGS DO NOT INTENTIONALLY, OR UNINTENTIONALLY PERMIT INSTALLATIONS NOT CONFORMING TO ANY OF THESE STANDARDS OR CODES. CONTRACTOR SHALL ENSURE INSTALLATIONS MEET OR EXCEED THESE REQUIREMENTS.

EQUIPMENT SUBMITTALS

- PROVIDE EQUIPMENT SUBMITTALS FOR ALL EQUIPMENT NECESSARY FOR THIS PROJECT. THIS INCLUDES MECHANICAL EQUIPMENT, DUCTWORK, ACCESSORIES, PIPING, PLUMBING FIXTURES, VALVES, TRIM, ETC. SUBMIT EVERYTHING REQUIRED FOR THIS PROJECT IN

ONE PACKAGE NEATLY ORGANIZED AND LABELED FOR REVIEW. CLEARLY STATE CAPACITIES AND EQUIPMENT OPTIONS.

- CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ANY CHANGES FROM ORIGINAL DESIGN INCLUDING, BUT NOT LIMITED TO DIMENSIONS, STRUCTURAL IMPACTS, ELECTRICAL IMPACTS, ETC. CONTRACTOR IS RESPONSIBLE FOR THE COSTS RESULTING FROM THESE CHANGES.

CLEANING

- CLEAN ALL WORK AFTER IT HAS BEEN COMPLETED. THIS INCLUDES, BUT IS NOT LIMITED TO HYDRONIC CHEMICAL TREATMENT, DUCT CLEANING, EQUIPMENT CLEANING, VALVE CLEANING, STRAINER CLEAN OUT, DOMESTIC WATER PIPING CLEANING, AND GAS PIPING CLEANING.
- CLEAN UP SITE AT THE END OF EACH DAY AFTER WORK. ONCE ALL WORK HAS BEEN COMPLETED, CLEAN UP THE SITE IN A CONDITION SATISFACTORILY TO THE OWNER.

COORDINATION

- ALL WORK DUE TO THESE CONSTRUCTION DOCUMENTS SHALL BE COORDINATED WITH OTHER TRADES TO ENSURE EFFICIENT CONSTRUCTION. THIS COORDINATION SHALL OCCUR BEFORE BEGINNING CONSTRUCTION.
- COORDINATE ALL ELECTRICAL CONNECTIONS WITH ELECTRICAL CONTRACTOR BEFORE BEGINNING WORK.
- CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT, SLEEVES, PIPING, EQUIPMENT, AND DUCT LOCATIONS BEFORE CONCRETE IS POURED.

MATERIALS AND EQUIPMENT

GENERAL EQUIPMENT REQUIREMENTS

- EQUIPMENT MAKE AND MODELS IN THESE CONSTRUCTION DOCUMENTS ARE TO ESTABLISH DESIGN INTENT. ALTERATIONS FROM THESE SELECTIONS ARE ACCEPTABLE AS LONG AS THEY ARE REVIEWED BY THE ENGINEER FOR CONFORMANCE TO DESIGN INTENT. CONTRACTOR IS STILL RESPONSIBLE FOR DIMENSIONS AND ELECTRICAL COORDINATION.
- CONTRACTOR TO ENSURE EQUIPMENT AND MATERIALS ARE UL LISTED OR APPROVED BY A SIMILAR LISTING PROCESS.
- CONTRACTOR IS RESPONSIBLE FOR ALL ACCESS DOORS REQUIRED IN THIS PROJECT FOR EQUIPMENT, FIRE DAMPERS, SMOKE DAMPERS, FIRE/SMOKE DAMPERS, MATERIAL VALVE, OR FITTING ACCESS. ACCESS PANEL SIZE SHALL BE APPROPRIATE FOR THE EQUIPMENT OR VALVE TO BE ACCESSED. COORDINATE WITH ARCHITECTURAL DRAWINGS. FRAME SHALL BE MOUNTED FLUSH TO THE SURFACE WITH APPROPRIATE LOCKING MECHANISM. ACCESS PANEL SHALL BE APPROPRIATELY RATED AND INSTALLED IF LOCATED IN A RATED ASSEMBLY.

MATERIALS

DUCTWORK

- ALL DUCT WORK SHALL BE G90 GALVANIZED SHEET METAL CONSTRUCTED PER SMACNA DUCT CONSTRUCTION STANDARDS. SUPPLY DUCT SHALL BE CONSTRUCTED TO SMACNA 2 IN. WG. PRESSURE CLASS. ALL RETURN, EXHAUST, AND TRANSFER DUCT SHALL BE CONSTRUCTED TO 1 IN. WG. PRESSURE CLASS. SUPPLY AND RETURN DUCT SHALL BE SEALED TO SMACNA SEAL CLASS A. ALL DUCT SHALL BE CLEANED PER SMACNA DUCT CLEANLINESS GUIDELINES TO THE INTERMEDIATE LEVEL. ALL DUCTWORK SHALL BE 26 GAUGE AT A MINIMUM.
- ROUND DUCTWORK IN EXPOSED AREAS SHALL BE SPIRAL CONSTRUCTION.
- ROUND DUCTWORK THAT IS LINED SHALL BE MCGILL K-27 OR EQUAL.
- ALL DUCTWORK SHALL BE SEALED WITH DUCT SEALER.
- ALL DUCTWORK SHALL BE SUPPORTED AND BRACED APPROPRIATELY PER MANUFACTURER AND SEISMIC REQUIREMENTS.
- FLEXIBLE DUCTWORK RUNOUTS SHALL BE LIMITED TO 5 FEET UNLESS DRAWINGS STATE OTHERWISE OR YOU HAVE APPROVAL FROM THE OWNER AND ENGINEER.

DUCT INSULATION

- CONCEALED FRESH AIR, SUPPLY, AND RETURN DUCTWORK SHALL BE INSULATED WITH 1-1/2" INSULATION WITH A MINIMUM R-VALUE THAT MEETS THE REQUIREMENTS OF THE IECC.
- EXPOSED FRESH AIR, SUPPLY, AND RETURN DUCTWORK SHALL BE ACOUSTICALLY LINED WITH A MINIMUM R-VALUE THAT MEETS THE REQUIREMENTS OF THE IECC.
- EXTERIOR FRESH AIR, SUPPLY, AND RETURN DUCTWORK SHALL BE DOUBLE WALLED CONSTRUCTION WITH 2" INSULATION WITH A MINIMUM R-VALUE THAT MEETS THE REQUIREMENTS OF THE IECC.

GRILLES, REGISTERS, AND DIFFUSERS

- VERIFY ALL SURFACES AND REFLECTED CEILING PLANS BEFORE ORDERING DIFFUSERS. ALTERNATE MANUFACTURERS ARE ALLOWED AS LONG AS SUPPLIER VERIFIES SIZING TO ENSURE PROPER THROW AND NOISE CRITERIA. ENSURE APPEARANCE OF ALTERNATE IS SIMILAR TO ORIGINAL DESIGN.

ACCESSORIES

- CONTRACTOR SHALL PROVIDE FILTERS FOR ALL PIECES OF EQUIPMENT. IF EQUIPMENT IS RAN DURING CONSTRUCTION, REPLACE FILTERS ONCE THE PROJECT IS TURNED OVER TO THE OWNER. SEE THESE DOCUMENTS OF MANUFACTURER RECOMMENDATIONS FOR FILTER SIZES AND REQUIREMENTS.
- PROVIDE AND INSTALL FLEXIBLE CONNECTIONS ON ALL PIECES OF EQUIPMENT THAT HAS A CHANCE OF VIBRATING. THIS INCLUDED DUCTWORK AND PIPING. PROVIDE AN APPROPRIATE FLEX CONNECTION FOR THE APPLICATION IT IS USED.
- CONTRACTOR SHALL SUPPLY FIRE, SMOKE, AND FIRE/SMOKE DAMPERS AS SHOWN ON DRAWINGS AS WELL AS WHERE REQUIRED BY CODE. FIRE DAMPERS SHALL MEET ALL CODE AND UL REQUIREMENTS. PROVIDE FIRE/SMOKE DAMPERS WITH 120 VOLT ACTUATOR.
- PROVIDE PARALLEL BLADE MANUAL BALANCE DAMPERS

ON ALL DUCTWORK RUNOUTS UNLESS DRAWINGS STATE OTHERWISE.

EXECUTION

MATERIALS

- DUCTWORK SHALL BE KEPT CLEAN OF ALL DIRT AND DEBRIS. IT SHALL ALSO BE COVERED AT THE END OF EACH DAY TO LIMIT THE AMOUNT OF DUST INTRUSION. TEST DUCTWORK FOR LEAKAGE PER IMC AND IECC REQUIREMENTS. PROVIDE AND INSTALL APPROPRIATE HANGERS FOR ALL DUCTWORK PER MANUFACTURER AND CODE REQUIREMENTS. ENSURE DUCTWORK CONSTRUCTION MEETS CODE, SMACNA, AND ASHRAE REQUIREMENTS.
- CLEAN AND SEAL ALL EQUIPMENT PRIOR TO INSTALLING NEW FILTERS. REPLACE FILTER IF EQUIPMENT WAS RAN DURING CONSTRUCTION.

EQUIPMENT

- INSTALL ALL EQUIPMENT PER MANUFACTURER AND CODE REQUIREMENTS. ENSURE EQUIPMENT IS ACCESSIBLE FOR EASE OF MAINTENANCE.
- ENSURE EQUIPMENT IS PROPERLY ANCHORED AND BRACED FOR CODE, MANUFACTURER, AND STRUCTURAL REQUIREMENTS.
- IDENTIFY EACH PIECE OF EQUIPMENT AS SHOWN IN THESE CONSTRUCTION DOCUMENTS WITH PLASTIC TAGS INCLUDING EQUIPMENT ABBREVIATION AND NUMBER. CONTACT ENGINEER IF THERE IS A DISCREPANCY IN NUMBERING.

CONTROLS

- CONTRACTOR SHALL PROVIDE CONTROLS ON THIS PROJECT PER CONSTRUCTION DRAWING REQUIREMENTS. CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT, PROGRAMMING, VALVES, AND TRIM TO ENSURE A COMPLETE FUNCTIONING SYSTEM THAT OPERATES PER THE DESIGNED SEQUENCE OF OPERATION.
- COORDINATE ALL WORK WITH THE ELECTRICAL CONTRACTOR FOR ALL WORK INCLUDING CONDUIT, WIRING, AND ELECTRICAL CONNECTIONS.
- EXPOSED WIRING IN A PLENUM SHALL BE PLENUM RATED AND MEET ALL CODE REQUIREMENTS.

TESTING, ADJUSTING, AND BALANCING

- PROVIDE TESTING, ADJUSTING, AND BALANCING ON THIS PROJECT INCLUDING ALL AIR FLOWS, STATIC PRESSURES, AND OTHER CONDITIONS OF THE EQUIPMENT. PROVIDE A REPORT SHOWING ALL ACTUAL VERSUS DESIGN CONDITIONS.

EQUIPMENT START UP

- ENSURE EQUIPMENT IS PROPERLY SET UP BEFORE STARTING. THIS INCLUDES, BUT IS NOT LIMITED TO SAFETY VALVES, VALVES, TRIM, WIRING, LUBRICATION, CONTROLS, ETC.
- START EQUIPMENT AND PROVIDE OWNER WITH DOCUMENTATION OF START UP AND PROPER EQUIPMENT OPERATION.

CLEANING AND PATCHING

- CLEAN THE WORK SITE COMPLETELY AT THE END OF THE PROJECT IN A MANNER ACCEPTABLE TO OWNER. REPAIR ANY DAMAGED FINISHED SURFACES WITH A CRAFTSMAN THAT IS SKILLED IN THAT TRADE.

TRAINING

- PROVIDE OWNER WITH APPROPRIATE TRAINING ON EQUIPMENT OPERATION AND MAINTENANCE. PROVIDE OWNER WITH RED LINE DRAWINGS, SUBMITTALS, WARRANTY INFORMATION, AND OPERATION AND MAINTENANCE MANUALS AT THIS TIME.



301 SOUTH 3rd STREET
ALSEA, OREGON 97324

ALSEA SCHOOL DISTRICT
1c9-2c22: K-12 BUILDING HVAC UPGRADE



CB Construction
1202 Adams Avenue
LaGrande, OR 97850



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PHASES (PH):

DESIGN DEVELOPMENT

DRAWING NO.

M3.1

MECHANICAL SPECIFICATIONS



CALENDAR

2022-2023

OCTOBER 18, 2022	6:00PM	GYM
NOVEMBER 15, 2002	6:00PM	GYM
DECEMBER 20, 2022	6:00PM	GYM
JANUARY 17, 2023	6:00PM	GYM
FEBRUARY 21, 2023	6:00PM	GYM
MARCH 21, 2023	6:00PM	GYM
APRIL 18, 2023	6:00PM	GYM
MAY 16, 2023	6:00PM	GYM
JUNE 20, 2023	6:00PM	GYM

Note: Location may change depending on student need for Gym use.



OREGON STATE ASSESSMENTS

SBAC - Smarter Balanced Assessment
Consortium



Purpose of the Assessment

- 
- ❑ Assessment helps evaluate Systems
 - ❑ Summative tests identify strengths and needs
 - ❑ Summative assessment results give us a reliable, comparable indicator to measure the state of student academic achievement in ELA, math, and science across districts and schools in Oregon
 - ❑ Assessments helps the Government provide funding for curriculum and special programs
 - ❑ Provides parents with normalized assessment data for their individual child



Participation Rates



For the data to be meaningful we **MUST HAVE**
have a **95%** Participation rate

This is a Federally Required Assessment. The (ESEA) - Elementary and Secondary Education Act requires rates to be at least **95%** for all students.

Statistically, the district needs to see >80% participation to validate the scores



Opt out

ORS 329.479, also called the Student Assessment Bill of Rights, requires districts to provide the option for parents to opt out of state summative testing in English language arts and mathematics that does not include science*

This will be provided by a letter going home stating when the State test will be taking place. Parents then may contact the school for an opt - out form if they wish.

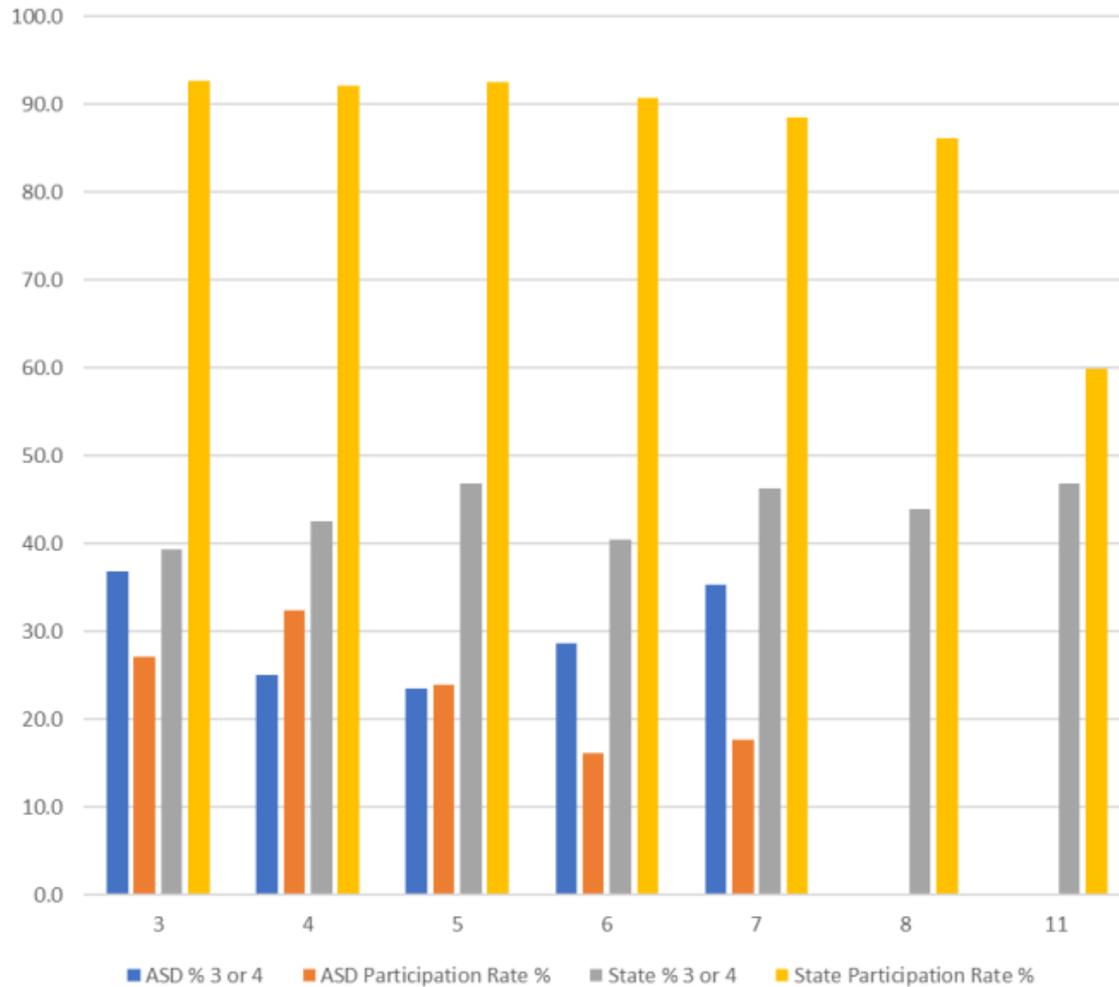
Alsea is encouraging all required grades (3,4,5,6,7,8 &11) for 22-23 school year to take the assessment to help determine the gaps in learning and to provide accurate data that could result in additional resources.

*Note: Science can only be opted out by a religious or medical exemption

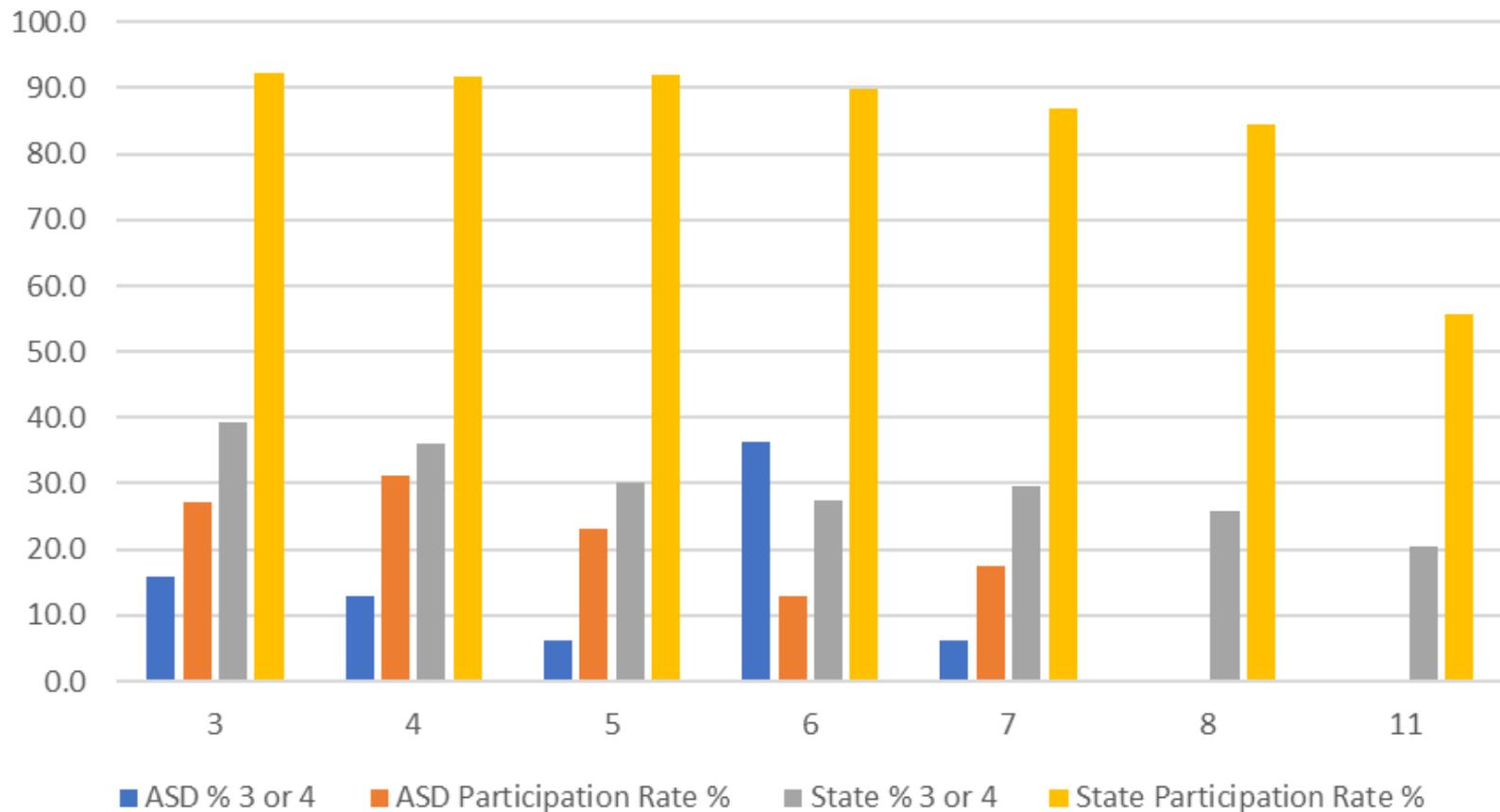


21-22 School Data

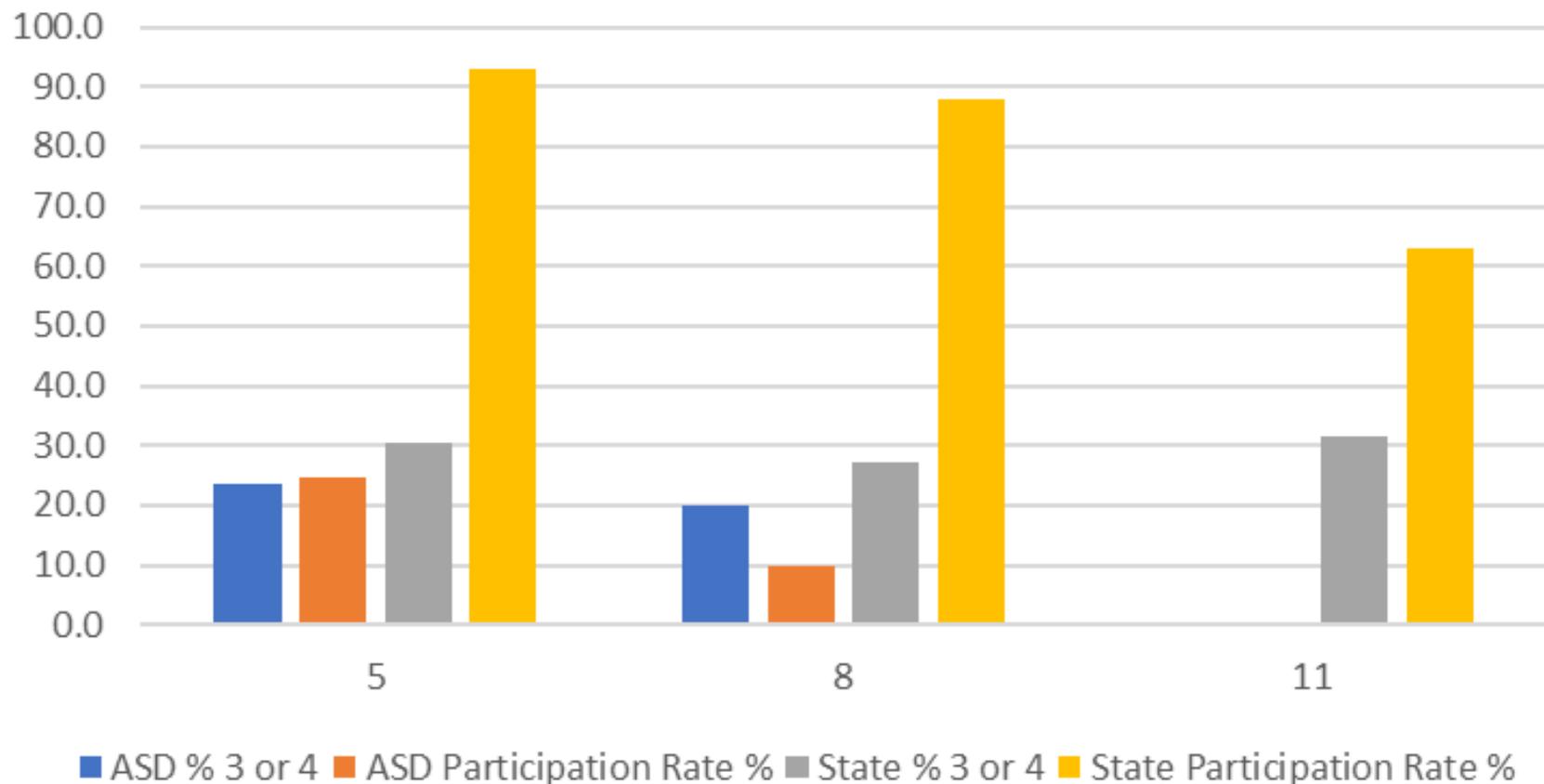
ASD vs State ELA Assessments



ASD vs State Math Assessments 21-22



ASD vs State Science Assessments 21-22







District Administration Office
Mr. Sean Gallagher – Acting Superintendent

301 S 3rd St
Alsea, OR 97324
Office: 541 487-5643
Fax: 541 487-4089

Email: sean.gallagher@alsea.k12.or.us
www.alsea.k12.or.us

MEMO

Date: 10/13/22

To: Board of Directors

From: Sean Gallagher – Acting Superintendent

Re: Roles and Responsibilities of a Project Manager for a school construction project

- Make sure the customer is satisfied with the outcome of the project
- To ensure that the project is completed in a quality manner
- To ensure that the project maintains budget and timeline
- Provide leadership in planning, organizing, and controlling the work effort
- To ensure that plan designs are efficient and effective
- Coordinates all teams to perform tasks at the right time and place
- To communicate project updates with all constituents
- To define project objectives in collaboration with the customer
- To utilize highly developed construction management skills to ensure the customers interests are preserved at all levels
- Utilizes a management information system to track actual progress and compare this with planned progress schedules
- To intervene and be proactive, resolving problems before they become a worse issue
- To clearly define roles and responsibilities of all team members
- To facilitate problem solving as the project progresses
- To negotiate effectively with contractors in the best interests of the customer
- To be recognized as the one who gets things done
- To ensure that all safety regulations are being followed at all times
- To know and understand completely the construction marketplace and utilize those built relationships in the best interest of the customer

6. Financials

a. Accounts

Speaker(s): LaRae Sullivan



MEMORANDUM

October 13th, 2022

TO: Alsea School District Board of Directors
FROM: LaRae Sullivan, LBL-ESD Assistant Business Manager
RE: September 30th, 2022 Financial Statements

Board Members,

Attached you will find the 2022-23 financial statements through September 30th, 2022. These statements include the General Fund Statement of Revenues Budget vs. Actual, General Fund Statement of Expenditures Budget vs. Actual, and total Appropriations for the year.

The General Fund statements include the actual revenues and expenditures from July 1, 2022 through September 30th, 2022. The estimated General Fund Ending Fund Balance is \$1,352,462. This is projected with expenditure appropriation used at 84% of budget. Unappropriated Ending Fund Balance make up \$1,341,734 of the Fund Balance total.

At this time there are still no additional funds being released to the State School fund for next fiscal year.

All of Alsea School District 7J investments are held in the Local Government Investment Pool. Investments total \$3,328,227.87 and are yielding an annualized interest rate of 1.84% through September 30th, 2022.

Enrollment: Please remember enrollment could change on a daily basis. These numbers are as of: 10/01/2022

Grade	K	1	2	3	4	5	6	7	8	9	10	11	12	Total
In Building														
As of 10/01/22	20	16	16	23	21	17	16	16	24	14	16	21	24	244
Learn at Home Oregon														
As of 10/01/22	42	50	25	27	20	15	29	43	27	0	0	0	0	278

Total Enrollment for all schools equals 522 for the month of September 2022.

Please let me know if you have any questions or concerns regarding these statements.

Alesea School District 7J
General Fund: Statement of Revenue Budget Vs. Actual
For the Fiscal Year 2022-2023
As of 09/30/2022

Source	Adopted 2022-23 Budget	Actual YTD Rev. 9/30/2022	Projected through 6/30/2023	Total Estimated 2022-2023	(Over)/Under Budget	Total Actuals YTD* 6/30/2022	Adopted 2021-22 Budget
SSF Funding							
1111 Current Year Property Taxes	\$ 450,000	557	462,943	\$ 463,500	\$ (13,500)	460,495	\$ 425,000
1112 Prior Year's Property Taxes	1,500	173	1,552	\$ 1,725	(225)	3,966	5,000
1190 Penalties & Interest	1,000	75	925	\$ 1,000	-	1,133	1,500
2101 County School Funds	2,500	-	5,000	\$ 5,000	(2,500)	8,805	2,400
3101 State School Support Funds	10,531,799	3,497,894	5,581,425	\$ 9,079,319	1,452,480	10,732,474	10,548,592
3101 SSF- High Cost Disability Payment	-	-	5,000	\$ 5,000	(5,000)	4,518	-
3101 SSF- May Adjustment	-	-	-	\$ -	-	-	-
3103 Common School Fund	26,000	-	49,000	\$ 49,000	(23,000)	48,709	26,000
Total SSF Funding	11,012,799	3,498,699	6,105,845	9,604,544	1,408,255	11,260,101	11,008,492
Non State School Support Formula Sources							
Local Sources							
1412 Transportation Fees from Other Dist.	-	-	-	\$ -	-	-	-
1510 Interest on Investments/Taxes	25,000	14,622	10,378	\$ 25,000	-	26,580	20,000
1710 Admissions	-	-	-	\$ -	-	-	100
1920 Donations from Private Sources	1,000	1,000	-	\$ 1,000	-	800	1,000
1940 Services Provided to Other Ed.- General	35,000	-	-	\$ -	35,000	-	50,000
1940 Services Provided to Other Ed.- KVCS	-	14,743	20,257	\$ 35,000	(35,000)	28,775	66,000
1940 Services Provided to Other Ed.- WLA	-	-	35,000	\$ 35,000	(35,000)	35,392	120,000
1960 Recovery of Prior Year Exp.	-	-	-	\$ -	-	(2,613)	-
1980 Fees Charged to Grants	4,000	-	4,000	\$ 4,000	-	6,048	-
1990 Miscellaneous Local Revenue	15,000	1,850	28,150	\$ 30,000	(15,000)	39,421	15,000
1991 Misc. Erate	-	-	-	\$ -	-	-	20,000
2102 Education Service District Resources	5,000	-	500	\$ 500	4,500	-	40,000
2199 Other Intermediate Source	-	-	-	\$ -	-	69	-
Total Non Formula Local Sources	85,000	32,215	128,285	160,500	(75,500)	134,472	332,100
State/Federal Sources							
3199 Other Grants-In-Aid	-	-	-	-	-	-	-
3203 Special Ed	5,000	-	5,000	5,000	-	8,393	-
Total State/Federal Sources	5,000	-	5,000	5,000	-	8,393	-
Other Sources							
5160 Lease Purchase	-	-	-	-	-	-	-
5300 Sale/Loss of Fixed Assets	5,000	-	-	-	5,000	-	5,000
5400 Beginning Fund Balance	1,800,000	-	1,093,000	1,093,000	707,000	1,696,388	2,100,000
Total Other Sources	1,805,000	-	1,093,000	1,093,000	712,000	1,696,388	2,105,000
Total Non SSF Revenue	1,895,000	32,215	1,226,285	1,258,500	636,500	1,839,252	2,437,100
Total Resources	\$ 12,907,799	3,530,914	\$ 7,332,130	\$ 10,863,044	\$ 2,044,755	\$ 13,099,353	\$ 13,445,592
				Less Estimated Requirements	\$ (9,510,582)		
				Estimated Ending Fund Balance	\$ 1,352,462		
				Less UEFB	\$ 1,341,734		
				Estimated Ending Fund Balance	\$ 10,728		

Alesa School District 7J
 General Fund: Statement of Expenditures Budget Vs. Actual
 For the Fiscal Year 2022-2023
 As of 09/30/2022

Function	Adopted 2022-23 Budget	Actual YTD Exp. 9/30/2022	Projected through 6/30/2023	Total Estimated 2022-2023	(Over)/ Under Budget	% Committed	Total Actuals YTD* 6/30/2022	Adopted 2021-22 Budget
Instruction								
1111 Elementary, K-6	1,777,633	182,448	1,310,764	1,493,212	284,421	84.00%	1,777,484	2,026,282
1112 Learn at Home (LAHO)	-	-	-	-	-	0.00%	4,079	-
1113 Elementary Extracurricular	17,443	-	14,652	14,652	2,791	0.00%	9,505	-
1121 Middle/Junior High Programs	734,134	69,132	547,541	616,673	117,461	84.00%	713,180	715,357
1122 Middle/Junior High School Extracurricular	24,371	2,795	17,677	20,472	3,899	84.00%	16,680	40,051
1131 High School Programs	515,653	101,577	331,572	433,149	82,504	84.00%	558,393	577,238
1132 High School Extracurricular	109,764	28,431	63,770	92,202	17,562	84.00%	123,459	114,943
1140 Pre-K	14,826	333	-	333	14,493	2.24%	13,403	217
1210 Programs for the Talented and Gifted	21,831	10,817	7,521	18,338	3,493	84.00%	12,434	109
1250 Programs for Students w/Severe Disabilities	1,457,424	189,956	903,112	1,093,068	364,356	75.00%	1,268,978	1,309,845
1280 District Alternative Programs	49,288	799	20,603	21,402	27,886	43.42%	62,209	101,503
1288 Charter School Payments	900,000	311,500	405,500	717,000	183,000	79.67%	1,621,500	1,659,200
1291 ELL	92,746	7,825	70,082	77,907	14,839	0.00%	54,431	-
Total Instruction	5,715,113	905,612	3,692,793	4,598,406	1,116,707		6,235,735	6,544,747
Support Services								
2113 Family Support Liaison	56,254	129	47,124	47,253	9,001	84.00%	54,323	106,925
2114 Staff Accounting Services	134,066	83,774	28,841	112,615	21,451	0.00%	279,106	275,000
2120 Guidance Services	111,172	-	93,384	93,384	-	84.00%	-	113,449
2122 Guidance Services	-	2,938	-	2,938	-	0.00%	-	-
2134 Nurse Services	-	1,758	(1,758)	-	-	0.00%	-	-
2142 Psychological Testing Services	40,000	3,251	30,349	33,600	-	84.00%	-	-
2150 Speech Pathology and Audiology Services	-	7,119	-	7,119	(7,119)	-	-	-
2152 Speech Pathology Services	49,809	6,461	35,379	41,840	7,969	84.00%	161,944	204,768
2160 Other Student Treatment Services	14,000	2,362	9,398	11,760	2,240	0.00%	17,771	-
2190 Service Direction, Student Support Services	260,933	16,149	203,035	219,184	-	84.00%	88,807	100,128
2222 Library/Media Center	1,250	-	1,050	1,050	200	84.00%	-	39,106
2230 Assessment and Testing	-	1,245	(1,245)	-	-	-	-	-
2240 Staff Development	1,000	-	840	840	160	84.00%	34,426	1,063
2310 Board of Education	180,750	41,733	110,097	151,830	28,920	84.00%	172,584	163,450
2321 Office of the Superintendent Services	373,103	95,500	217,907	313,407	59,696	84.00%	340,042	350,574
2410 Office of the Principal Services	1,046,124	292,211	586,533	878,744	167,380	84.00%	1,234,165	1,269,651
2520 Fiscal Services	484,103	115,194	291,453	406,647	77,456	84.00%	440,450	394,773
2540 Operation & Maintenance of Plant	647,012	216,672	326,818	543,490	103,522	84.00%	679,074	697,202
2543 Care and Upkeep of Grounds	-	121	-	121	(121)	0.00%	-	-
2544 Maintenance	-	-	-	-	-	0.00%	12,654	6,553
2550 Student Transportation Services- Alesa	683,498	129,719	444,419	574,138	109,360	84.00%	682,712	636,820
2550 Student Transportation Services- KV	365,650	47,201	259,945	307,146	58,504	84.00%	299,815	371,241
2550 Student Transportation Services- WLA	410,215	53,419	291,162	344,580	-	84.00%	353,841	319,550
2558 Special Ed Transportation Services	54,103	1,095	44,352	45,447	8,656	84.00%	15,304	11,267
2572 Purchasing Services	-	-	-	-	-	0.00%	-	17,109
2660 Technology	267,915	28,826	196,223	225,049	42,866	84.00%	420,892	295,464
Total Support Services	5,180,957	1,146,875	3,215,306	4,362,181	690,142		5,287,909	5,374,093
Other Requirements								
5110 Bus	19,995	19,995	-	19,995	0	100.00%	141,278	151,499
5200 Transfers of Funds	530,000	0	530,000	530,000	-	100.00%	281,500	281,500
6000 Contingency	120,000	0	-	-	120,000	0.00%	-	93,755
Total Other Requirements	669,995	19,995	530,000	549,995	120,000		422,778	526,754
Total Requirements	\$ 11,566,065	\$ 2,072,483	\$ 7,438,099	\$ 9,510,582	\$ 1,926,850		11,946,422	\$ 12,445,592

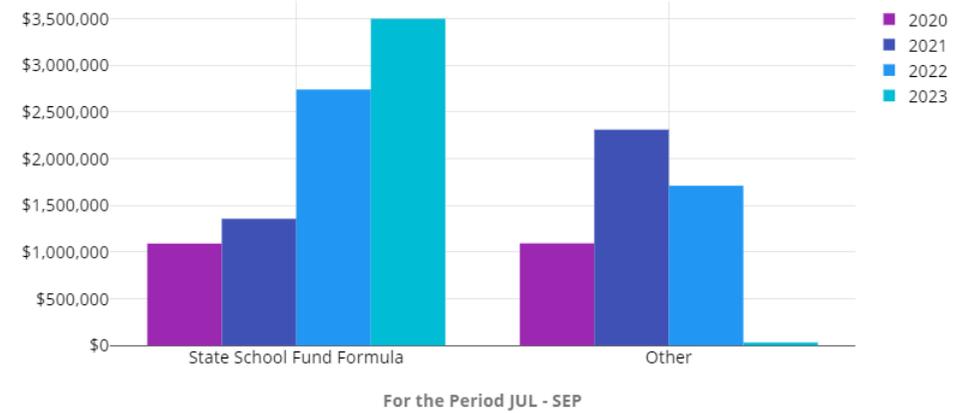
Alesea School District 7J
YTD Appropriations - General Fund
For the Fiscal Year 2022-2023
As of 09/30/2022

Fund	Appropriations	Resolutions	YTD	Encumbrances	Totals	(Over)/Under Budget
General Fund, 100						
1000 Instruction	\$ 5,715,113	\$ -	\$ 905,612	\$ 3,692,793	\$ 4,598,406	\$ 1,116,707
2000 Support Services	\$ 5,180,957	\$ -	\$ 1,146,875	\$ 3,215,306	\$ 4,362,181	\$ 818,776
5100 Debt Service	\$ 19,995	\$ -	\$ 19,995	\$ -	\$ 19,995	\$ 0
5200 Transfers	\$ 530,000	\$ -	\$ -	\$ 530,000	\$ 530,000	\$ -
6000 Contingency	\$ 120,000	\$ -	\$ -	\$ -	\$ -	\$ 120,000
Sub Totals	\$ 11,566,065	\$ -	\$ 2,072,483	\$ 7,438,099	\$ 9,510,582	\$ 2,055,483
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Totals	\$ 11,566,065	\$ -	\$ 2,072,483	\$ 7,438,099	\$ 9,510,582	\$ 2,055,483

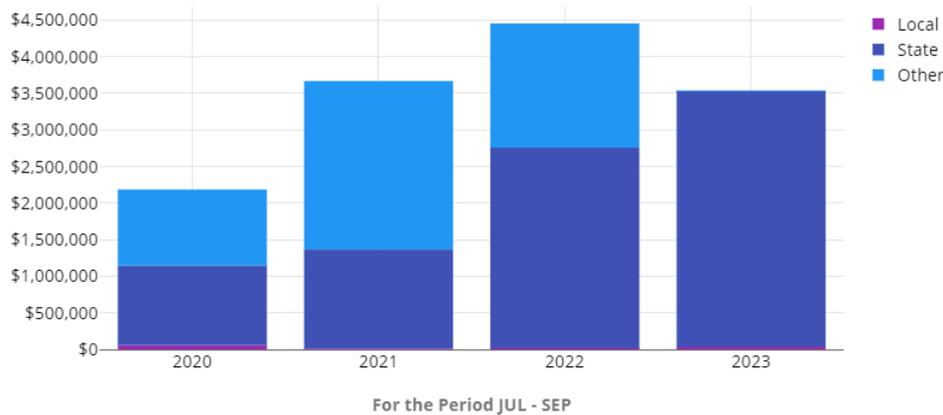
General Fund Historical Revenues for Current Month



General Fund Year to Date Revenues



General Fund Year to Date Revenues by Source



Source Level 1	For the Period JUL - SEP			
	2020 YTD Amount	2021 YTD Amount	2022 YTD Amount	2023 YTD Amount
1000-1999 Local Sources	\$55,954	\$12,394	\$15,774	\$33,020
3000-3999 State Sources	\$1,088,763	\$1,354,091	\$2,739,569	\$3,497,894
5000-5999 Other Sources	\$1,039,793	\$2,300,055	\$1,696,388	\$0



2022-2023 Alsea SD 7J | General Fund Overview - Revenue

YTD Local Sources

6.20% of Budget

Prior Year YTD: 2.62% of Actuals

YTD State Sources

33.12% of Budget

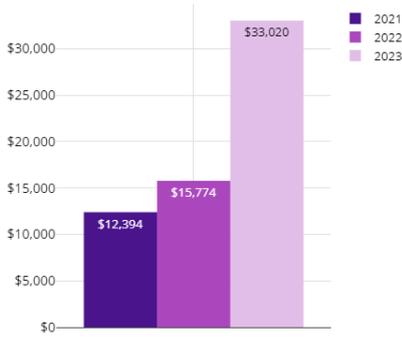
Prior Year YTD: 25.38% of Actuals

YTD All Sources (except 5400s)

31.79% of Budget

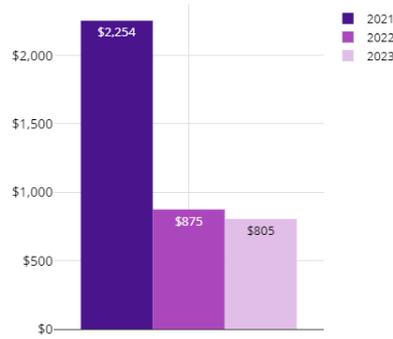
Prior Year YTD: 24.17% of Actuals

Local Sources (1000s)



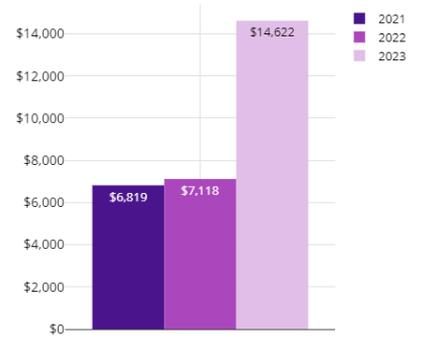
For the Period JUL - SEP

Property Taxes (1100s)



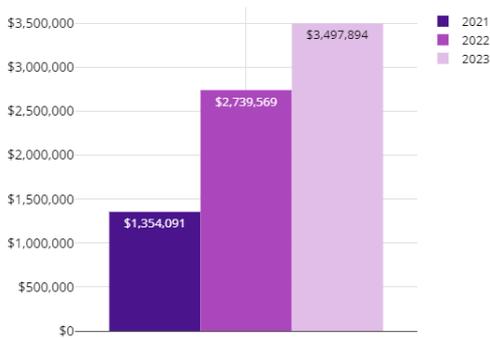
For the Period JUL - SEP

Interest Earnings (1500s)



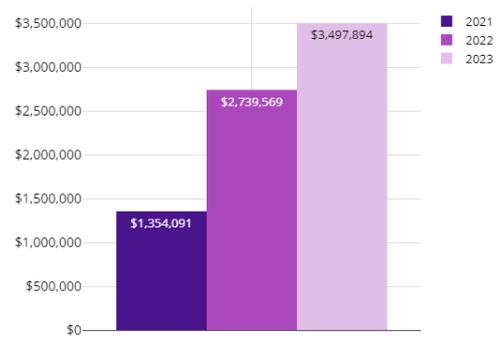
For the Period JUL - SEP

State Sources (3000s)



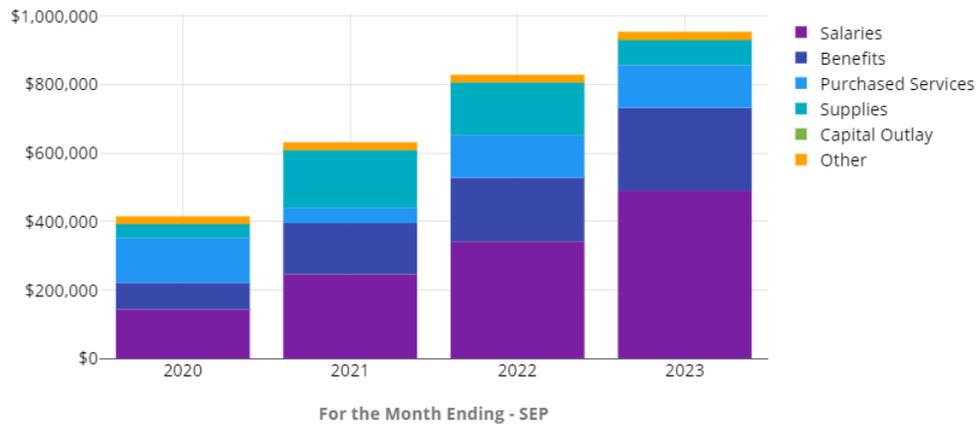
For the Period JUL - SEP

State School Fund (3101)

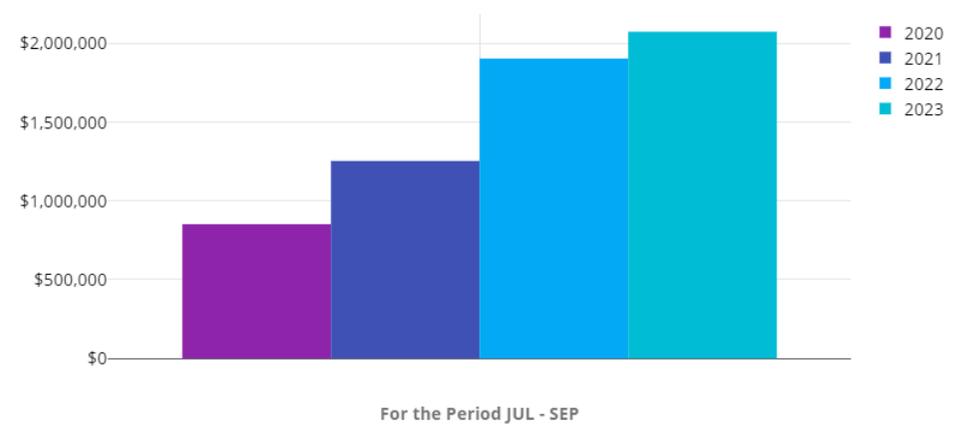


For the Period JUL - SEP

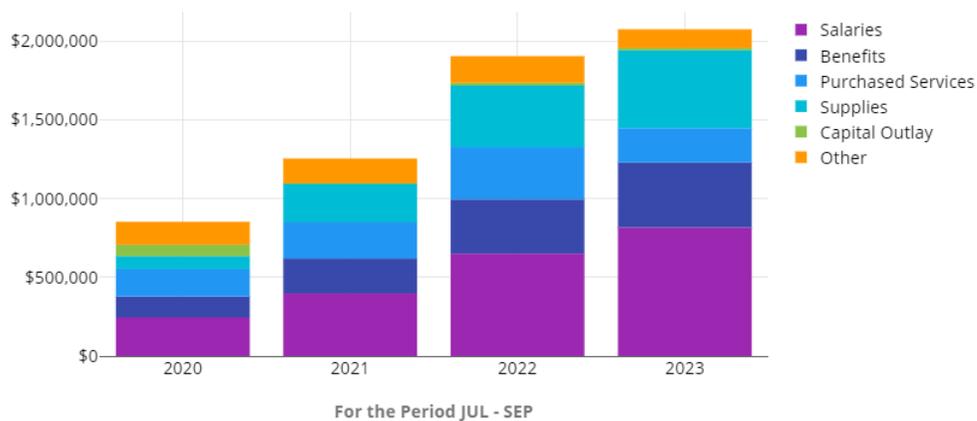
General Fund Historical Expenses for Current Month



General Fund Year to Date Expenses



General Fund Year to Date Expenses by Object



Object Level 1	For the Period JUL - SEP			
	2020	2021	2022	2023
	YTD Amount	YTD Amount	YTD Amount	YTD Amount
Salaries	\$245,332	\$398,340	\$650,316	\$816,562
Benefits	\$132,913	\$221,507	\$344,234	\$412,804
Purchased Services	\$174,264	\$230,832	\$331,090	\$217,043
Supplies	\$82,013	\$245,968	\$397,462	\$494,165
Capital Outlay	\$71,848	\$0	\$11,070	\$14,697
Other	\$146,095	\$156,915	\$169,507	\$118,811



YTD Salary and Benefits

14.62% of Budget

Prior Year YTD: 13.07% of Actuals

YTD Purchased Services

23.35% of Budget

Prior Year YTD: 15.83% of Actuals

YTD Other Expenses

29.74% of Budget

Prior Year YTD: 25.98% of Actuals

Salaries (100s)



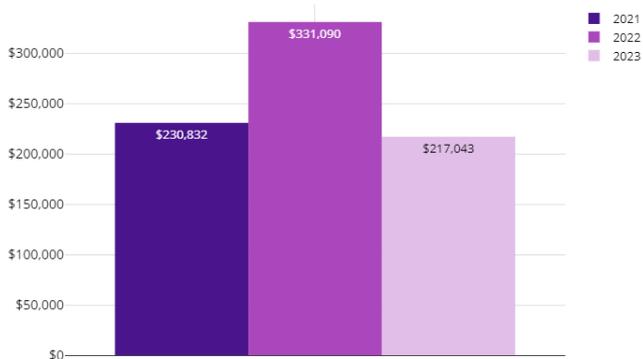
For the Period JUL - SEP

Benefits (200s)



For the Period JUL - SEP

Purchased Services (300s)



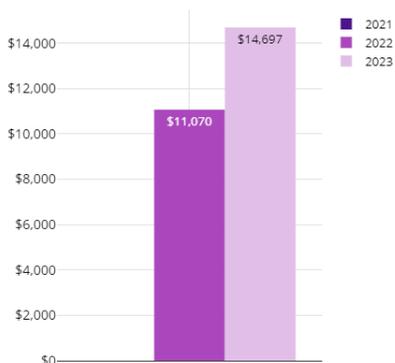
For the Period JUL - SEP

Supplies (400s)



For the Period JUL - SEP

Capital Outlay (500s)



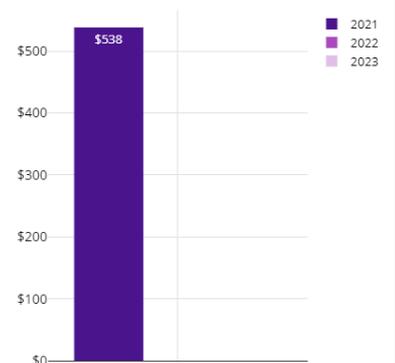
For the Period JUL - SEP

Other Objects (600s)



For the Period JUL - SEP

Transfers (700s)



For the Period JUL - SEP

7. Payment of Bills for October
Speaker(s): LaRae Sullivan

Alsea School District 7J

Disbursement Detail Listing

Bank Name: Citizens Bank - Checking

Date Range: 09/01/2022 - 09/30/2022

Sort By: Vendor

Fiscal Year: 2022-2023

Voucher Range: -

Dollar Limit: \$0.00

Print Employee Vendor Names

Exclude Voided Checks

Exclude Manual Checks

Include Non Check Batches

Check Number	Date	Voucher	Payee	Invoice	Account	Description	Amount	
Bank Name: Citizens Bank - Checking								
10393	09/29/2022	1080	Aimee Hart	AH Reimb 9/22/22	259.1132.0410.007.000.467	Concessions Food	\$357.34	
10393	09/29/2022	1080	Aimee Hart	AH Reimb 9/22/22	259.1132.0410.007.000.467	Grill Racks for Concessions	\$36.84	
10393	09/29/2022	1080	Aimee Hart	AH Reimb 9/22/22	259.1132.0410.007.000.467	Concessions Food	\$181.76	
							Check Total:	\$575.94
10361	09/22/2022	1053	Alsea Wolverines Booster Club	100	259.1132.0410.007.000.467	Food for Concessions left over from Jamboree	\$151.00	
10361	09/22/2022	1053	Alsea Wolverines Booster Club	101	259.1132.0410.007.000.467	Food for Concessions left over from Jamboree	\$575.16	
							Check Total:	\$726.16
10313	09/08/2022	1039	Amplified IT, LLC	47169	100.2660.0470.000.000.000	Chome Gopher – 1 year subscription	\$400.00	
							Check Total:	\$400.00
10362	09/22/2022	1053	Annastazia Stoffell	AS Reimb 9/19/22	100.2520.0342.000.000.000	Mileage to OASBO Conf. – Bend, OR	\$86.06	
10362	09/22/2022	1053	Annastazia Stoffell	AS Reimb 9/19/22	100.2520.0342.000.000.000	Dinner – Per Bend, OR GSA Rates	\$29.00	
10362	09/22/2022	1053	Annastazia Stoffell	AS Reimb 9/19/22	100.2520.0342.000.000.000	Dinner – Per Bend, OR GSA Rates	\$16.98	
10362	09/22/2022	1053	Annastazia Stoffell	AS Reimb 9/19/22	100.2520.0342.000.000.000	Mileage from OASBO Conf. – Bend, OR	\$82.38	
							Check Total:	\$214.42
10363	09/22/2022	1053	Bashors Team Athletics	79268	100.1122.0410.005.230.000	Footballs	\$77.85	
							Check Total:	\$77.85
10364	09/22/2022	1053	BEGGS TIRE CENTER	157954	100.1121.0410.005.220.000	Tires for Shop Class Wheelbarrow	\$40.00	
10364	09/22/2022	1053	BEGGS TIRE CENTER	157954	100.1131.0410.007.220.000	Tires for Shop Class Wheelbarrow	\$60.00	
							Check Total:	\$100.00

Alsea School District 7J

Disbursement Detail Listing

Bank Name: Citizens Bank - Checking

Date Range: 09/01/2022 - 09/30/2022

Sort By: Vendor

Fiscal Year: 2022-2023

Voucher Range: -

Dollar Limit: \$0.00

Print Employee Vendor Names

Exclude Voided Checks

Exclude Manual Checks

Include Non Check Batches

Check Number	Date	Voucher	Payee	Invoice	Account	Description	Amount
10394	09/29/2022	1080	BENTON COUNTY HEALTH DEPARTMENT	EH23-10	299.3100.0380.000.000.000	Inspections – Indoor/Outdoor	\$478.00
Check Total:							\$478.00
10331	09/15/2022	1046	BENTON COUNTY PUBLIC WORKS	0370 - 8/31/22	100.2540.0327.000.000.000	Water & Sewer Services	\$184.00
10331	09/15/2022	1046	BENTON COUNTY PUBLIC WORKS	0390 - 8/31/22	100.2540.0327.000.000.000	Water & Sewer Services	\$63.00
10331	09/15/2022	1046	BENTON COUNTY PUBLIC WORKS	0400 - 8/31/22	100.2540.0327.000.000.000	Water & Sewer Services	\$34.00
Check Total:							\$281.00
10365	09/22/2022	1053	BEST POTS, INC.	478501	100.2540.0324.000.000.000	ADA and Regular Unit for Jamboree	\$430.00
10365	09/22/2022	1053	BEST POTS, INC.	481306	100.1132.0324.007.230.000	Blue Room Rental – Football Field	\$392.20
Check Total:							\$822.20
10366	09/22/2022	1053	Betsy Brooks	Aug Inv. 9/8/22	100.2134.0389.000.000.000	August Hours Worked	\$1,640.63
10366	09/22/2022	1053	Betsy Brooks	BB Reimb 9/19/22	100.2134.0389.000.000.000	(10) CPR/First Aid Cards for Nurse	\$117.20
Check Total:							\$1,757.83
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22223050	100.2520.0410.000.000.000	Storage Bins for HR/Payroll	\$118.44
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22223050	100.2520.0410.000.000.000	Wireless Mouse – A.Stoffell	\$14.99
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230032	100.2540.0460.000.000.000	Wireless 2-Way Intercom	\$348.00
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230040	100.2660.0389.000.000.612	Web Hosting – Learn at Home Oregon	\$300.00
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230041	100.2550.0410.000.000.601	Tablet Case for Frontline Usage	\$89.00
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230041	100.2550.0480.000.000.601	Tablet for Frontline Usage	\$69.99
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230044	251.2113.0410.000.000.000	Bins	\$38.96
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230044	251.2113.0410.000.000.000	Bins	\$32.96

Alsea School District 7J

Disbursement Detail Listing

Bank Name: Citizens Bank - Checking

Date Range: 09/01/2022 - 09/30/2022

Sort By: Vendor

Fiscal Year: 2022-2023

Voucher Range: -

Dollar Limit: \$0.00

Print Employee Vendor Names

Exclude Voided Checks

Exclude Manual Checks

Include Non Check Batches

Check Number	Date	Voucher	Payee	Invoice	Account	Description	Amount
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230044	251.2113.0460.000.000.000	Cabinet	\$257.80
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230044	251.2113.0460.000.000.000	Cabinet	\$190.69
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230046	100.2550.0460.000.000.601	KV 59 bus spring brake valve	\$199.00
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230050	100.2550.0331.000.000.604	WLA Bus 18	\$130.50
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230051	100.2550.0460.000.000.000	Bus 2 replacement cb radio parts	\$72.59
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230052	100.2540.0410.000.000.000	Tubes for Mower and Hand Truck Tires	\$25.00
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230052	100.2550.0410.000.000.000	Tires for Van 3	\$840.00
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230053	100.2660.0410.000.000.612	Monitors for LAHO Teachers	\$844.80
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230055	100.2660.0410.000.000.000	Replacement Ink for AD Printer	\$56.49
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230060	100.2152.0410.000.320.000	SLP: ARIZONA-4 Standardized Assessment of	\$294.10
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230060	100.2152.0410.000.320.000	Shipping - SLP: ARIZONA-4 Standardized	\$29.41
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230060	100.2152.0410.000.320.612	Shipping - SLP: ARIZONA-4 Standardized	\$5.19
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230060	100.2152.0410.000.320.612	SLP: ARIZONA-4 Standardized Assessment of	\$51.90
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230061	100.1250.0460.000.320.000	Adjustable Height Tables for SLP Office	\$119.96
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230065	100.2550.0410.000.000.601	KV bus 59 rear brake shoes	\$273.98
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230065	100.2550.0410.000.000.601	KV 59 Front brake shoes	\$263.98
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230065	100.2550.0410.000.000.601	KV 59 Front brake drums	\$631.10
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230065	100.2550.0410.000.000.601	KV 59 rear brake drums	\$369.32

Alsea School District 7J

Disbursement Detail Listing

Bank Name: Citizens Bank - Checking

Date Range: 09/01/2022 - 09/30/2022

Sort By: Vendor

Fiscal Year: 2022-2023

Voucher Range: -

Dollar Limit: \$0.00

Print Employee Vendor Names

Exclude Voided Checks

Exclude Manual Checks

Include Non Check Batches

Check Number	Date	Voucher	Payee	Invoice	Account	Description	Amount
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230066	100.1121.0410.005.220.000	Saw Stop, Saw Blades, Dust Guard, Push Sticks, Stock	\$392.03
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230066	100.1131.0410.007.220.000	Saw Stop, Saw Blades, Dust Guard, Push Sticks, Stock	\$588.04
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230067	100.1131.0410.007.221.000	Consumable Supplies and Materials	\$68.35
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230068	100.2550.0460.000.000.000	Bus slack adjuster rebuild kit	\$52.71
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230069	100.2550.0410.000.000.601	KV 59 bus relay valve rebuild kit	\$53.68
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230070	100.2550.0410.000.000.000	Paper Shredder	\$106.95
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230070	100.2550.0410.000.000.601	Black Ink	\$24.99
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230070	100.2550.0410.000.000.601	Color Ink	\$58.99
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230076	100.1131.0410.007.120.000	Student Binders for Science Class	\$82.74
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230077-1	100.2550.0410.000.000.000	Air Conditioning Kit	\$37.99
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230077-2	100.2550.0410.000.000.000	Blue Def, Brake Cleaner, CB Radio	\$83.46
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230079	100.1132.0342.007.230.000	Dufer Football Jamboree - Hotel Rooms	\$217.94
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230079	259.1132.0342.007.000.426	Dufer Football Jamboree - Hotel Rooms	\$762.79
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230086	100.1111.0410.006.000.612	Utility cart	\$64.98
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230091	100.1132.0342.007.230.000	Dufer Volleyball Jamboree - Hotel Room	\$108.97
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230093-1	100.2410.0353.000.000.612	LAHO Postage - USPS	\$148.94
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230093-2	100.2410.0353.000.000.612	LAHO Postage - USPS	\$269.70
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230093-3	100.2410.0353.000.000.612	LAHO Postage - USPS	\$317.49
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230093-4	100.2410.0353.000.000.612	LAHO Postage - USPS	\$579.64
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230093-5	100.2410.0353.000.000.612	LAHO Postage - USPS	\$372.45

Alsea School District 7J

Disbursement Detail Listing

Bank Name: Citizens Bank - Checking

Date Range: 09/01/2022 - 09/30/2022

Sort By: Vendor

Fiscal Year: 2022-2023

Voucher Range: -

Dollar Limit: \$0.00

Print Employee Vendor Names
 Exclude Voided Checks
 Exclude Manual Checks
 Include Non Check Batches

Check Number	Date	Voucher	Payee	Invoice	Account	Description	Amount
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230093-6	100.2410.0353.000.000.612	LAHO Postage - USPS	\$198.36
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230093-7	100.2410.0353.000.000.612	LAHO Postage - USPS	\$622.95
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230094-1	100.2410.0353.000.000.612	LAHO Postage - FedEx	\$192.60
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230094-2	100.2410.0353.000.000.612	LAHO Postage - FedEx	\$211.64
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230094-3	100.2410.0353.000.000.612	LAHO Postage - FedEx	\$513.98
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230094-4	100.2410.0353.000.000.612	LAHO Postage - FedEx	\$651.28
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230094-5	100.2410.0353.000.000.612	LAHO Postage - FedEx	\$149.70
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230094-6	100.2410.0353.000.000.612	LAHO Postage - FedEx	\$720.21
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230094-7	100.2410.0353.000.000.612	LAHO Postage - FedEx	\$51.07
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230094-8	100.2410.0353.000.000.612	LAHO Postage - FedEx	\$820.25
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230094-9	100.2410.0353.000.000.612	LAHO Postage - FedEx	\$118.33
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230095	100.2550.0322.000.000.000	Bus 2 ignition switch	\$31.20
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230100	100.2540.0417.000.000.000	Ceiling Fan, Fridge	\$520.53
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230101-1	100.1250.0410.000.320.612	GFTA-3 Scoring Subscription	\$45.00
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230101-1	100.1250.0410.000.320.612	CELf-5 Scoring Subscription	\$45.00
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230102-1	100.2410.0354.000.000.612	Advertisement for LAHO	\$5,000.00
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230102-10	100.2410.0354.000.000.612	Advertisement for LAHO	\$5,000.00
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230102-11	100.2410.0354.000.000.612	Advertisement for LAHO	\$5,000.00
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230102-12	100.2410.0354.000.000.612	Advertisement for LAHO	\$5,000.00
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230102-13	100.2410.0354.000.000.612	Advertisement for LAHO	\$5,000.00
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230102-2	100.2410.0354.000.000.612	Advertisement for LAHO	\$5,000.00
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230102-3	100.2410.0354.000.000.612	Advertisement for LAHO	\$5,000.00
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230102-4	100.2410.0354.000.000.612	Advertisement for LAHO	\$5,000.00
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230102-5	100.2410.0354.000.000.612	Advertisement for LAHO	\$5,000.00
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230102-6	100.2410.0354.000.000.612	Advertisement for LAHO	\$5,019.38
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230102-7	100.2410.0354.000.000.612	Advertisement for LAHO	\$5,000.00
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230102-8	100.2410.0354.000.000.612	Advertisement for LAHO	\$5,000.00
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230102-9	100.2410.0354.000.000.612	Advertisement for LAHO	\$5,000.00

Alsea School District 7J

Disbursement Detail Listing

Bank Name: Citizens Bank - Checking

Date Range: 09/01/2022 - 09/30/2022

Sort By: Vendor

Fiscal Year: 2022-2023

Voucher Range: -

Dollar Limit: \$0.00

Print Employee Vendor Names

Exclude Voided Checks

Exclude Manual Checks

Include Non Check Batches

Check Number	Date	Voucher	Payee	Invoice	Account	Description	Amount
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230103	100.1131.0410.007.050.000	(4) Caster Wheels for Cart	\$95.95
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230106	100.1121.0410.005.050.000	Medical Cabinet for Secondary Office-MS	\$57.49
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230106	100.1131.0410.007.050.000	Medical Cabinet for Secondary Office-HS	\$98.55
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230106	100.1250.0410.000.320.000	Medical Cabinet for Secondary	\$8.21
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230107	259.1132.0410.007.000.403	Homecoming Tiara	\$16.18
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230107b	259.1132.0410.007.000.403	Homecoming Sashes, Tiaras, Crown	\$91.38
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230108	100.1111.0410.006.050.000	Boxes-Records Requests	\$15.85
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230108	100.1131.0410.007.050.000	Boxes-Records Requests \$15.85	\$15.85
NCB	09/27/2022	1073	BMO - Credit Card Purchases	22230109	100.2550.0322.000.000.000	Bus 1 fan clutch	\$655.60
NCB	09/27/2022	1073	BMO - Credit Card Purchases	2223051	100.2520.0460.000.000.000	Sound Supressing Divider Panels for Business Office	\$569.05
NCB	09/27/2022	1073	BMO - Credit Card Purchases	2223052	100.2520.0410.000.000.000	Business Office All-in-One Printer	\$179.00
NCB	09/27/2022	1073	BMO - Credit Card Purchases	2223053-1	100.2230.0318.000.000.000	Professional Development - District Data Assessments -	\$201.00
NCB	09/27/2022	1073	BMO - Credit Card Purchases	2223053-1	100.2230.0318.000.000.612	Professional Development - District Data Assessments -	\$99.00
NCB	09/27/2022	1073	BMO - Credit Card Purchases	2223059	100.2321.0460.000.000.000	Blinds for Super office (5) plus blinds for conference	\$1,646.04
NCB	09/27/2022	1073	BMO - Credit Card Purchases	2223060	100.2310.0460.000.000.000	Conference Chairs - Uline	\$500.00
NCB	09/27/2022	1073	BMO - Credit Card Purchases	2223060	100.2310.0460.000.000.000	Mesh Task Chair - Uline	\$225.00
NCB	09/27/2022	1073	BMO - Credit Card Purchases	2223060	100.2310.0460.000.000.000	Conference Table - Uline	\$398.24
NCB	09/27/2022	1073	BMO - Credit Card Purchases	2223060	100.2321.0460.000.000.000	Conference Chairs - Uline	\$500.00
NCB	09/27/2022	1073	BMO - Credit Card Purchases	2223060	100.2321.0460.000.000.000	Conference Table - Uline	\$398.23

Alsea School District 7J

Disbursement Detail Listing

Bank Name: Citizens Bank - Checking

Date Range: 09/01/2022 - 09/30/2022

Sort By: Vendor

Fiscal Year: 2022-2023

Voucher Range: -

Dollar Limit: \$0.00

Print Employee Vendor Names

Exclude Voided Checks

Exclude Manual Checks

Include Non Check Batches

Check Number	Date	Voucher	Payee	Invoice	Account	Description	Amount
NCB	09/27/2022	1073	BMO - Credit Card Purchases	2223072	100.2321.0389.000.000.000	Business cards for Sara Cash per Sean's OK	\$40.59
Check Total:							\$85,783.67
10314	09/08/2022	1039	CARSON OIL CO., INC./MSC 63052	0756811	100.2550.0418.000.000.000	Biodiesel 179.4 Gal @ \$3.8864	\$697.23
Check Total:							\$697.23
10332	09/15/2022	1046	CARSON OIL CO., INC./MSC 63052	0759619	100.2550.0418.000.000.000	Biodiesel 809.6 Gal @ \$4.1712	\$3,377.02
Check Total:							\$3,377.02
10395	09/29/2022	1080	CARSON OIL CO., INC./MSC 63052	0765281	100.2550.0418.000.000.000	Biodiesel 630.9 Gal @ \$3.9244	\$2,475.96
Check Total:							\$2,475.96
10315	09/08/2022	1039	Cintas Corporation - 172	1903278111	100.2540.0416.000.000.000	Custodial Supplies for 22/23 school year	\$130.00
10315	09/08/2022	1039	Cintas Corporation - 172	1903290250	100.2540.0416.000.000.000	Custodial Supplies for 22/23 school year	\$249.98
10315	09/08/2022	1039	Cintas Corporation - 172	4129773891	100.2540.0416.000.000.000	Custodial Supplies for 22/23 school year	\$713.50
10315	09/08/2022	1039	Cintas Corporation - 172	4130511091	100.2540.0416.000.000.000	Custodial Supplies for 22/23 school year	\$1,309.08
Check Total:							\$2,402.56
10367	09/22/2022	1053	Cintas Corporation - 172	1903327113	100.2540.0416.000.000.000	Custodial Supplies for 22/23 school year	\$90.00
10367	09/22/2022	1053	Cintas Corporation - 172	1903330645	100.2550.0410.000.000.000	Gloves - Industrial	\$250.00
10367	09/22/2022	1053	Cintas Corporation - 172	4131826722	100.2540.0416.000.000.000	Custodial Supplies for 22/23 school year	\$949.19
10367	09/22/2022	1053	Cintas Corporation - 172	41331143228	100.2540.0416.000.000.000	Custodial Supplies for 22/23 school year	\$713.50
Check Total:							\$2,002.69
10396	09/29/2022	1080	Cintas Corporation - 172	1903357825	100.2540.0416.000.000.000	Custodial Supplies for 22/23 school year	\$445.99

Alsea School District 7J

Disbursement Detail Listing

Bank Name: Citizens Bank - Checking

Date Range: 09/01/2022 - 09/30/2022

Sort By: Vendor

Fiscal Year: 2022-2023

Voucher Range: -

Dollar Limit: \$0.00

Print Employee Vendor Names

Exclude Voided Checks

Exclude Manual Checks

Include Non Check Batches

Check Number	Date	Voucher	Payee	Invoice	Account	Description	Amount
10396	09/29/2022	1080	Cintas Corporation - 172	4132552404	100.2540.0416.000.000.000	Custodial Supplies for 22/23 school year	\$713.50
Check Total:							\$1,159.49
NCB	09/06/2022	1043	CITIZENS BANK	Statement 8/19/22	100.5110.0610.000.000.000	Preschool House Loan Payment - Principal	\$16,524.81
NCB	09/06/2022	1043	CITIZENS BANK	Statement 8/19/22	100.5110.0621.000.000.000	Preschool House Loan Payment - Interest	\$3,469.99
Check Total:							\$19,994.80
10368	09/22/2022	1053	Columbia Concrete Sawing	60319	100.2540.0322.000.000.000	Concrete Cutting for ADA Ramp at Crosswalk	\$425.00
Check Total:							\$425.00
10316	09/08/2022	1039	CONSUMERS POWER INC.	14280200 - 9/1/22	100.2540.0325.000.000.000	Electric Services	\$56.09
10316	09/08/2022	1039	CONSUMERS POWER INC.	486400 - 9/1/22	100.2540.0325.000.000.000	Electric Services	\$1,050.40
10316	09/08/2022	1039	CONSUMERS POWER INC.	486401 - 9/1/22	100.2540.0325.000.000.000	Electric Services	\$123.13
10316	09/08/2022	1039	CONSUMERS POWER INC.	486402 - 9/1/22	100.2540.0325.000.000.000	Electric Services	\$177.53
10316	09/08/2022	1039	CONSUMERS POWER INC.	486403 - 9/1/22	100.2540.0325.000.000.000	Electric Services	\$202.06
Check Total:							\$1,609.21
10333	09/15/2022	1046	CONSUMERS POWER INC.	486404 - 9/9/22	100.2540.0325.000.000.000	Electric Services	\$141.93
Check Total:							\$141.93
10369	09/22/2022	1053	Corvallis Heating LLC	8057	100.2540.0389.000.000.000	Maintenance to Ductless Sytem in Shop	\$250.00
Check Total:							\$250.00
10317	09/08/2022	1039	COSA	4971460	100.2190.0640.000.320.000	2022-23 Member Dues C. Doe	\$161.25
10317	09/08/2022	1039	COSA	4971460	100.2190.0640.000.320.612	2022-23 Member Dues C. Doe	\$483.75
Check Total:							\$645.00
10334	09/15/2022	1046	COSA	4971710	100.2190.0342.000.320.000	2022 Fall SpEd Conf. Eugene 10/6 - 10/7 C. Doe	\$73.75
10334	09/15/2022	1046	COSA	4971710	100.2190.0342.000.320.612	2022 Fall SpEd Conf. Eugene 10/6 - 10/7 C. Doe	\$221.25
Check Total:							\$295.00

Alsea School District 7J

Disbursement Detail Listing

Bank Name: Citizens Bank - Checking

Date Range: 09/01/2022 - 09/30/2022

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Fiscal Year: 2022-2023

Voucher Range: -

Dollar Limit: \$0.00

Print Employee Vendor Names

Exclude Voided Checks

Exclude Manual Checks

Include Non Check Batches

Check Number	Date	Voucher	Payee	Invoice	Account	Description	Amount
10370	09/22/2022	1053	COSA	6514	100.2310.0389.000.000.000	HR Consultaion	\$8,925.00
Check Total:							\$8,925.00
10371	09/22/2022	1053	CURTIS RESTAURANT EQUIPMENT	1009106	204.3100.0541.000.000.000	JACKSON DISHWASHER PER QUOTE	\$16,500.00
10371	09/22/2022	1053	CURTIS RESTAURANT EQUIPMENT	1009106	299.3100.0541.000.000.000	JACKSON DISHWASHER PER QUOTE	\$11,208.13
10371	09/22/2022	1053	CURTIS RESTAURANT EQUIPMENT	1009106	299.3100.0541.000.000.000	BOOSTER HEATER, ELECTRIC	\$3,102.42
Check Total:							\$30,810.55
10372	09/22/2022	1053	Day Wireless Systems	743348	100.2660.0359.000.000.000	Wireless Service	\$1,801.22
Check Total:							\$1,801.22
10397	09/29/2022	1080	Dreambox Learning	DB042182113	100.1111.0420.006.050.000	Math Program Software K-8	\$2,938.07
10397	09/29/2022	1080	Dreambox Learning	DB042182113	100.1121.0420.005.050.000	Math Program Software K-8	\$1,259.18
Check Total:							\$4,197.25
10335	09/15/2022	1046	Entourage Yearbooks	10622333001	259.1132.0410.007.000.401	Deposit for 2023 Yearbooks	\$100.00
Check Total:							\$100.00
10336	09/15/2022	1046	Eugene Silkscreen, Inc.	57119	100.1132.0410.007.230.000	Volleyball Net Shipping	\$27.00
Check Total:							\$27.00
10318	09/08/2022	1039	FEI Testing & Inspection, Inc.	33332	410.4150.0520.000.000.000	Bond - VOC Building Ground Testing and	\$1,164.00
Check Total:							\$1,164.00
10373	09/22/2022	1053	FinalForms	011696CC	100.1122.0640.005.230.000	Athletic Forms - Annual Fee	\$152.00
10373	09/22/2022	1053	FinalForms	011696CC	100.1132.0640.007.230.000	Athletic Forms - Annual Fee	\$152.00
Check Total:							\$304.00
10337	09/15/2022	1046	FRANKLIN PRESS	27765	100.2410.0410.000.000.612	Enveloppes - LAHO	\$194.50
Check Total:							\$194.50
10398	09/29/2022	1080	Good Earth Pest Company	386479	100.2540.0322.000.000.000	Mole Trapping	\$780.00
Check Total:							\$780.00

Alsea School District 7J

Disbursement Detail Listing

Bank Name: Citizens Bank - Checking

Date Range: 09/01/2022 - 09/30/2022

Sort By: Vendor

Fiscal Year: 2022-2023

Voucher Range: -

Dollar Limit: \$0.00

Print Employee Vendor Names

Exclude Voided Checks

Exclude Manual Checks

Include Non Check Batches

Check Number	Date	Voucher	Payee	Invoice	Account	Description	Amount
10374	09/22/2022	1053	Greenways Academy LLC	9152	100.1288.0360.000.000.602	Charter School Payments – Aug Payment Adj	\$1,500.00
Check Total:							\$1,500.00
10399	09/29/2022	1080	Heather Shunk	HS Mileage 9/12/22	100.2410.0342.000.000.612	Mileage for Travel to Alsea 8/9–8/10	\$296.25
10399	09/29/2022	1080	Heather Shunk	HS Mileage 9/12/22	100.2410.0342.000.000.612	Mileage for Travel to Alsea 8/15–8/17	\$296.25
10399	09/29/2022	1080	Heather Shunk	HS Reimb 9/12/22	100.2410.0342.000.000.612	Lodging for Travel to Alsea 8/9–8/10	\$200.78
10399	09/29/2022	1080	Heather Shunk	HS Reimb 9/12/22	100.2410.0342.000.000.612	Lodging for Travel to Alsea 8/15–8/17	\$308.41
Check Total:							\$1,101.69
10319	09/08/2022	1039	IML Security Supply	3360717	100.2540.0541.000.000.000	Trilogy Security Locks – Board Approved 6/9/22	\$900.00
Check Total:							\$900.00
10320	09/08/2022	1039	Industrial Welding Supply, Inc.	00271380	259.1132.0324.007.000.403	Helium Tank Rental	\$5.00
Check Total:							\$5.00
10375	09/22/2022	1053	JOHN BOY'S ALSEA MERCANTILE	5114	100.1111.0410.006.050.000	Coffee Filters	\$1.13
10375	09/22/2022	1053	JOHN BOY'S ALSEA MERCANTILE	5114	100.1121.0410.005.050.000	Coffee Filters	\$0.50
10375	09/22/2022	1053	JOHN BOY'S ALSEA MERCANTILE	5114	100.1131.0410.007.050.000	Coffee Filters	\$0.75
10375	09/22/2022	1053	JOHN BOY'S ALSEA MERCANTILE	5114	100.1132.0410.007.230.000	Athletics Chains for Jamboree	\$8.78
10375	09/22/2022	1053	JOHN BOY'S ALSEA MERCANTILE	5114	100.1250.0410.000.320.000	Coffee Filters	\$0.12
10375	09/22/2022	1053	JOHN BOY'S ALSEA MERCANTILE	5114	100.2540.0416.000.000.000	Custodial Supplies	\$3.99
10375	09/22/2022	1053	JOHN BOY'S ALSEA MERCANTILE	5114	100.2540.0417.000.000.000	Maintenance Supplies	\$104.64
10375	09/22/2022	1053	JOHN BOY'S ALSEA MERCANTILE	5114	254.1400.0410.006.000.030	Summer Enrichment Consumables	\$16.78

Alsea School District 7J

Disbursement Detail Listing

Bank Name: Citizens Bank - Checking

Date Range: 09/01/2022 - 09/30/2022

Sort By: Vendor

Fiscal Year: 2022-2023

Voucher Range: -

Dollar Limit: \$0.00

Print Employee Vendor Names

Exclude Voided Checks

Exclude Manual Checks

Include Non Check Batches

Check Number	Date	Voucher	Payee	Invoice	Account	Description	Amount
10375	09/22/2022	1053	JOHN BOY'S ALSEA MERCANTILE	5114	259.1113.0410.006.000.310	ASB - Elementary Reading Expenses	\$47.76
Check Total:							\$184.45
10400	09/29/2022	1080	LES & BOB'S SPORTS & APPAREL	37521	100.1132.0419.007.230.000	Football Padded Pants 2022/2023	\$180.00
10400	09/29/2022	1080	LES & BOB'S SPORTS & APPAREL	37635	100.1132.0419.007.230.000	HS Football Jerseys 2022/2023	\$4,060.00
Check Total:							\$4,240.00
10401	09/29/2022	1080	Lock Pro-Corvallis	4261	100.2540.0322.000.000.000	Lock Services	\$750.00
Check Total:							\$750.00
10402	09/29/2022	1080	Mainline Pump & Irrigation	303416	100.2540.0389.000.000.000	Irrigation Pump & Motor Replacement	\$4,633.25
Check Total:							\$4,633.25
10376	09/22/2022	1053	MARY'S PEAK TRUE VALUE	B303240	100.1121.0410.005.220.000	Mini Sweeper	\$13.20
10376	09/22/2022	1053	MARY'S PEAK TRUE VALUE	B303240	100.1121.0410.005.220.000	Fencer Gloves	\$8.80
10376	09/22/2022	1053	MARY'S PEAK TRUE VALUE	B303240	100.1121.0410.005.220.000	50 Pack 24" Wood Stakes	\$11.20
10376	09/22/2022	1053	MARY'S PEAK TRUE VALUE	B303240	100.1131.0410.007.220.000	50 Pack 24" Wood Stakes	\$16.79
10376	09/22/2022	1053	MARY'S PEAK TRUE VALUE	B303240	100.1131.0410.007.220.000	Fencer Gloves	\$13.19
10376	09/22/2022	1053	MARY'S PEAK TRUE VALUE	B303240	100.1131.0410.007.220.000	Mini Sweeper	\$19.79
Check Total:							\$82.97
10377	09/22/2022	1053	Michelle Morimoto	MM Reimb 8/29/22	100.2152.0470.000.320.000	SLP Toolkit Annual Subscription	\$183.60
10377	09/22/2022	1053	Michelle Morimoto	MM Reimb 8/29/22	100.2152.0470.000.320.612	SLP Toolkit Annual Subscription	\$32.40
Check Total:							\$216.00
10338	09/15/2022	1046	MID-VALLEY VOLLEYBALL OFFICIALS ASSOC.	2022-001	100.1132.0389.007.230.000	Volleyball Officials/Line Judges	\$1,028.00
10338	09/15/2022	1046	MID-VALLEY VOLLEYBALL OFFICIALS ASSOC.	2022-001	100.1132.0389.007.230.000	Fees - Mileage	\$352.00
10338	09/15/2022	1046	MID-VALLEY VOLLEYBALL OFFICIALS ASSOC.	2022-001	100.1132.0389.007.230.000	Accounting Fees	\$66.50

Alsea School District 7J

Disbursement Detail Listing

Bank Name: Citizens Bank - Checking

Date Range: 09/01/2022 - 09/30/2022

Sort By: Vendor

Fiscal Year: 2022-2023

Voucher Range: -

Dollar Limit: \$0.00

Print Employee Vendor Names

Exclude Voided Checks

Exclude Manual Checks

Include Non Check Batches

Check Number	Date	Voucher	Payee	Invoice	Account	Description	Amount
10338	09/15/2022	1046	MID-VALLEY VOLLEYBALL OFFICIALS ASSOC.	2022-001	100.1132.0389.007.230.000	Commissioner Fees	\$67.50
Check Total:							\$1,514.00
10321	09/08/2022	1039	Miller Nash LLP	2192541	100.2310.0382.000.000.000	Legal Services Regarding Staff Investigations	\$8,227.00
Check Total:							\$8,227.00
10322	09/08/2022	1039	Modern Building Systems, Inc.	0136235	100.2540.0324.000.000.000	Modular Building Rental	\$780.42
Check Total:							\$780.42
10378	09/22/2022	1053	MOUNTAIN WEST LEAGUE	HS 9/22/22	100.1122.0640.005.230.000	MS Yearly League Dues	\$0.00
10378	09/22/2022	1053	MOUNTAIN WEST LEAGUE	HS 9/22/22	100.1132.0640.007.230.000	HS Yearly League Dues	\$255.00
10378	09/22/2022	1053	MOUNTAIN WEST LEAGUE	MS 9/22/22	100.1122.0640.005.230.000	MS Yearly League Dues	\$145.00
Check Total:							\$400.00
10379	09/22/2022	1053	Nicole Davis	ND Reimb 9/17/22	100.1132.0410.007.230.000	HS Football Muscle Cramp Relief Spray	\$24.24
Check Total:							\$24.24
10339	09/15/2022	1046	NORTHWEST TEXTBOOK DEPOSITORY COMPANY	114-331-917	100.1131.0420.007.180.000	Reveal Math Course 1 – 6 Year Subscription	\$3,580.20
10339	09/15/2022	1046	NORTHWEST TEXTBOOK DEPOSITORY COMPANY	114-331-917	100.1131.0420.007.180.000	Reveal Math Course 2 – 6 Year Subscription	\$3,580.20
10339	09/15/2022	1046	NORTHWEST TEXTBOOK DEPOSITORY COMPANY	114-331-917	100.1131.0420.007.180.000	Reveal Math Course 3 – 6 Year Subscription	\$3,580.20
10339	09/15/2022	1046	NORTHWEST TEXTBOOK DEPOSITORY COMPANY	114-331-917	100.1131.0420.007.180.000	Reveal Math Algebra 1 – 6 Year Subscription	\$4,162.50
10339	09/15/2022	1046	NORTHWEST TEXTBOOK DEPOSITORY COMPANY	114-331-917	100.1131.0420.007.180.000	Reveal Math Algebra 2 – 6 Year Subscription	\$4,162.50
10339	09/15/2022	1046	NORTHWEST TEXTBOOK DEPOSITORY COMPANY	114-331-917	100.1131.0420.007.180.000	Reveal Math Geometry – 6 Year Subscription	\$4,162.50
10339	09/15/2022	1046	NORTHWEST TEXTBOOK DEPOSITORY COMPANY	114-331-917	100.1131.0420.007.180.000	Shipping – Reveal Math Curriculum	\$824.60
Check Total:							\$24,052.70
10380	09/22/2022	1053	Oregon Athletic Coaches Association	265	100.1131.0410.007.050.000	Basketball OACA Gold card	\$130.00

Alsea School District 7J

Disbursement Detail Listing

Bank Name: Citizens Bank - Checking

Date Range: 09/01/2022 - 09/30/2022

Sort By: Vendor

Fiscal Year: 2022-2023

Voucher Range: -

Dollar Limit: \$0.00

Print Employee Vendor Names

Exclude Voided Checks

Exclude Manual Checks

Include Non Check Batches

Check Number	Date	Voucher	Payee	Invoice	Account	Description	Amount
10380	09/22/2022	1053	Oregon Athletic Coaches Association	265	100.1131.0410.007.050.000	Football OACA Gold Card	\$455.00
10380	09/22/2022	1053	Oregon Athletic Coaches Association	265	100.1131.0410.007.050.000	Athletic Director OACA Gold Card	\$130.00
10380	09/22/2022	1053	Oregon Athletic Coaches Association	265	100.1131.0410.007.050.000	Track OACA Gold Cards	\$65.00
Check Total:							\$780.00
10340	09/15/2022	1046	OREGON GOVERNMENT ETHICS COMMISSION	AIE16290	100.2310.0640.000.000.000	Annual Oregon Ethics Commission	\$658.59
Check Total:							\$658.59
10381	09/22/2022	1053	Oregon Labor Law Poster Service	2477239	100.2410.0410.000.000.000	Labor Law Posters – 2023	\$99.50
Check Total:							\$99.50
10382	09/22/2022	1053	OREGON SCHOOL BOARDS ASSOCIATION	0022963	100.2310.0342.000.000.000	Conf. Fees for Board Retreat in Bend – S.Koetz	\$226.00
10382	09/22/2022	1053	OREGON SCHOOL BOARDS ASSOCIATION	0022967	100.2310.0342.000.000.000	Conf. Fees for Board Retreat in Bend – R.Follett	\$527.00
10382	09/22/2022	1053	OREGON SCHOOL BOARDS ASSOCIATION	0022968	100.2310.0342.000.000.000	Conf. Fees for Board Retreat in Bend – S.Gallagher	\$527.00
10382	09/22/2022	1053	OREGON SCHOOL BOARDS ASSOCIATION	0022969	100.2310.0342.000.000.000	Conf. Fees for Board Retreat in Bend – R.VanLeuven	\$527.00
Check Total:							\$1,807.00
10383	09/22/2022	1053	PACE	CHG-3658	100.2550.0653.000.000.604	Insurance: Auto Liability, Damage & Excess– WLA Bus	\$1,046.00
Check Total:							\$1,046.00
10403	09/29/2022	1080	Paradigm Learning Systems	31 Software	100.1288.0470.000.000.612	Learn at Home Oregon	\$1,600.00
Check Total:							\$1,600.00
10323	09/08/2022	1039	PEAK INTERNET	176352 - 9/1/22	100.2660.0351.000.000.000	Monthly 1GB (2) and 500 Mb (1) Ethernet Transport	\$339.50
Check Total:							\$339.50
10384	09/22/2022	1053	Peterson Trucks, Inc.	705505	100.2550.0389.000.000.601	KV Bus 76 Annual Inspection	\$1,938.52
Check Total:							\$1,938.52

Alsea School District 7J

Disbursement Detail Listing

Bank Name: Citizens Bank - Checking

Date Range: 09/01/2022 - 09/30/2022

Sort By: Vendor

Fiscal Year: 2022-2023

Voucher Range: -

Dollar Limit: \$0.00

Print Employee Vendor Names
 Exclude Voided Checks
 Exclude Manual Checks
 Include Non Check Batches

Check Number	Date	Voucher	Payee	Invoice	Account	Description	Amount
10404	09/29/2022	1080	PIONEER TELEPHONE COOPERATIVE	101858 - 10/1/22	100.1140.0351.000.000.000	Preschool Internet – Reimbursed	\$59.89
10404	09/29/2022	1080	PIONEER TELEPHONE COOPERATIVE	101858 - 10/1/22	100.2660.0351.000.000.000	Monthly Telephone Service	\$1,236.55
Check Total:							\$1,296.44
10385	09/22/2022	1053	Remind101, Inc.	2021-122022	100.2660.0359.000.000.000	District Communication Service to reach	\$1,500.00
Check Total:							\$1,500.00
10324	09/08/2022	1039	REPUBLIC SERVICES #452	0452-004830040	100.2540.0328.000.000.000	Garbage Service	\$1,158.91
Check Total:							\$1,158.91
10405	09/29/2022	1080	Samuel H. Aley -School Psychologist, LLC	1 9/25/22	100.2142.0389.000.320.612	Phycho-Educational Evaluatinos – Sept 2022	\$3,250.66
Check Total:							\$3,250.66
10386	09/22/2022	1053	Santander Leasing LLC	2832214	290.5110.0610.000.000.604	Principal 2023 WLA Bus #18 (VIN# 1BABNBSA6PF391443)	\$27,114.00
10386	09/22/2022	1053	Santander Leasing LLC	2832214	290.5110.0622.000.000.000	Interest 2023 WLA Bus #18 (VIN# 1BABNBSA6PF391443)	\$338.00
Check Total:							\$27,452.00
10341	09/15/2022	1046	Sara Cash	2	100.2310.0389.000.000.000	PIO Contract Hours – July & August	\$1,120.50
10341	09/15/2022	1046	Sara Cash	2	100.2310.0389.000.000.000	PIO Mileage – July & August	\$71.25
10341	09/15/2022	1046	Sara Cash	2	100.2310.0389.000.000.000	PIO COSA Conf Registration – Eugene, OR	\$99.00
Check Total:							\$1,290.75
10342	09/15/2022	1046	SCHOOL SPECIALTY INC	308104080820	100.1111.0410.006.050.612	LAHO Student School Supplies	\$1,526.29
10342	09/15/2022	1046	SCHOOL SPECIALTY INC	308104080820	100.1121.0410.005.050.612	LAHO Student School Supplies	\$751.75
Check Total:							\$2,278.04
10387	09/22/2022	1053	SCHOOL SPECIALTY INC	208130858071	100.1111.0410.006.050.612	LAHO Student School Supplies	\$147.60

Alsea School District 7J

Disbursement Detail Listing

Bank Name: Citizens Bank - Checking

Date Range: 09/01/2022 - 09/30/2022

Sort By: Vendor

Fiscal Year: 2022-2023

Voucher Range: -

Dollar Limit: \$0.00

Print Employee Vendor Names

Exclude Voided Checks

Exclude Manual Checks

Include Non Check Batches

Check Number	Date	Voucher	Payee	Invoice	Account	Description	Amount
10387	09/22/2022	1053	SCHOOL SPECIALTY INC	208130858071	100.1121.0410.005.050.612	LAHO Student School Supplies	\$72.70
Check Total:							\$220.30
10343	09/15/2022	1046	Sean Gallagher	SG Mileage 9/9/22	100.2321.0342.000.000.000	Mileage for Off-Site Meetings in August	\$94.38
Check Total:							\$94.38
10388	09/22/2022	1053	Shawn Webb	SW Reimb 9/8/22	100.1122.0410.005.230.000	MS Football Wrist PlayCoach	\$20.00
10388	09/22/2022	1053	Shawn Webb	SW Reimb 9/8/22	100.1122.0419.005.230.000	MS Football Pants	\$59.98
Check Total:							\$79.98
10389	09/22/2022	1053	Shirt Star Screen Printing & Embroidery	220913SASH	259.1132.0410.007.000.466	Alumni Prom Court Sash Printing	\$60.00
Check Total:							\$60.00
10344	09/15/2022	1046	SILKE COMMUNICATIONS INC.	128037	100.2550.0351.000.000.000	Air Time Per Radio	\$323.40
10344	09/15/2022	1046	SILKE COMMUNICATIONS INC.	128037	100.2550.0351.000.000.000	FCC License User Surcharge Fee	\$35.49
Check Total:							\$358.89
10345	09/15/2022	1046	Special Occasions	151967	100.2321.0324.000.000.000	Table Rental for Inservice Staff Breakfast/Meeting	\$161.70
Check Total:							\$161.70
10346	09/15/2022	1046	T-Mobile	97878 - 9/12/22	258.2660.0351.000.000.612	LAHO Student Internet Hotspots	\$2,546.00
Check Total:							\$2,546.00
10390	09/22/2022	1053	TeachBoost	2022-12896	100.2321.0470.000.000.000	TeachBoost Platform - Teacher Evaluation Tool	\$1,600.00
10390	09/22/2022	1053	TeachBoost	2022-12896	100.2321.0470.000.000.000	TeachBoost Platform - Teacher Evaluation Tool	\$800.00
Check Total:							\$2,400.00
10325	09/08/2022	1039	The Hungerford Law Firm, LLP	SchoolLawWebinar	100.2310.0318.000.000.000	22/23 School Law Webinar	\$900.00
Check Total:							\$900.00

Alsea School District 7J

Disbursement Detail Listing

Bank Name: Citizens Bank - Checking

Date Range: 09/01/2022 - 09/30/2022

Sort By: Vendor

Fiscal Year: 2022-2023

Voucher Range: -

Dollar Limit: \$0.00

Print Employee Vendor Names

Exclude Voided Checks

Exclude Manual Checks

Include Non Check Batches

Check Number	Date	Voucher	Payee	Invoice	Account	Description	Amount
10347	09/15/2022	1046	The Hungerford Law Firm, LLP	10900	100.2310.0382.000.000.000	Legal Services for Classified Handbook Review	\$228.75
10347	09/15/2022	1046	The Hungerford Law Firm, LLP	109511	100.2310.0382.000.000.000	Legal Services for Contract/Policy Review	\$1,116.30
Check Total:							\$1,345.05
10326	09/08/2022	1039	The Math Learning Center	INV27197	100.1111.0420.006.051.000	Number Corner 2ED GR 1 Student Book 5/pkg	\$72.00
10326	09/08/2022	1039	The Math Learning Center	INV27197	100.1111.0420.006.051.000	Bridges 2ED GR 1 Student Book 5/pkg	\$72.00
10326	09/08/2022	1039	The Math Learning Center	INV27197	100.1111.0420.006.051.000	Freight – Bridges Curriculum	\$10.08
Check Total:							\$154.08
10327	09/08/2022	1039	Timothy Pearson	TP Mileage 8/30/22	268.2240.0342.000.000.000	Mentorship Training Mileage – Albany	\$201.25
Check Total:							\$201.25
10328	09/08/2022	1039	Waxmaster Janitorial LLC	001089	100.2540.0389.000.000.000	Strip and Wax Floors – Locker Rooms	\$300.00
Check Total:							\$300.00
Bank Total:							\$278,925.74

Alsea School District 7J

Disbursement Detail Listing

Bank Name: Citizens Bank - Checking

Date Range: 09/01/2022 - 09/30/2022

Sort By: Vendor

Fiscal Year: 2022-2023

Voucher Range: -

Dollar Limit: \$0.00

Print Employee Vendor Names

Exclude Voided Checks

Exclude Manual Checks

Include Non Check Batches

Check Number	Date	Voucher	Payee	Invoice	Account	Description	Amount
<u>Fund</u>							<u>Amount</u>
100							\$213,351.54
204							\$16,500.00
251							\$520.41
254							\$16.78
258							\$2,546.00
259							\$2,385.21
268							\$201.25
290							\$27,452.00
299							\$14,788.55
410							\$1,164.00
<hr/>							
Fund Totals:							\$278,925.74

End of Report

Disbursements Grand Total: \$278,925.74

8. Patron Comments:
9. Board Comments
 - a. Superintendent Search and Survey
 - b. Upcoming Open Board Member Seats
 - c. Communication with State Legislators

Special Districts Who Serve You in Benton County

If you are a registered voter in any of these districts and interested in serving as an elected member of their board, you can contact the district's office or the Benton County Elections Office for more information. Forms needed to file as a candidate can be obtained in the Forms Section of this website under Special Districts Filing.

Mailing Address:

Benton County Clerk
Elections & Passports Division
P.O. Box 888
Corvallis, OR 97339

Physical Location:

Records & Elections Department
Elections & Passports Division
[Kalapuya Building](#)
4500 SW Research Way, 2nd Floor
Corvallis OR 97333

Contact Information:

541-766-6756 (Phone)
541-766-6757 (Fax)
800-735-2900 (TTY)
elections@co.benton.or.us

Before each candidate election a list of positions that will appear on that election is published in local papers. Anyone who is interested in becoming a candidate can visit Benton County Elections website, call the Benton County Elections Office at 541-766-6756 or come by our office located at 4500 SW Research Way in Corvallis, for more information on qualifications and deadlines that apply to filing for office.

Special Districts Filing Resources

To learn more about the different types of special districts within Benton County, refer to the [Special District section](#) of this website. There you will find information about what each district does, qualifications, duties and responsibilities of elected board members, and contact information for the boards that serve your area.

You must be a registered voter living in the district to file as a candidate for their board. You may call the Elections Office at 541-766-6756 for the districts you are qualified to run for and when positions on their board will appear on the ballot.

Special Districts elect their board members in the Special District Election which is held in odd numbered years in May. The next scheduled Special District Election is **May 18, 2021**.

Filing by Declaration

First day to file: **February 6, 2021**

Last day to file: **March 18, 2021**

Fee: \$10.00

Filing by Petition

First day to file: **February 6, 2021**

Last day to file: **March 11, 2021**; 7 days before filing deadline

Number of signatures: Contact the Benton County Elections Office

Filing forms must be typed or typed information attached to form. After completing the form, print it and sign it, before submitting it to the elections office either in person or by mail.

An original signature is required. These forms can also be obtained at the Elections Office 4500 SW Research Way, Corvallis, OR 97333.

[SEL 190 Candidate Filing - District](#)

Used to file for candidacy. This filing will be posted on the Benton County Elections website at www.co.benton.or.us/elections.

[SEL 121 Candidate Signature Sheet - Nonpartisan](#) and

[SEL 338 Petition Submission - Candidate, Voters' Pamphlet](#)

Used only if the candidate is filing by collecting signatures. Make sure you know how many signatures you will need, that signers live in your district, and that you obtain at least 10% more signatures than are actually needed.

[SEL 150 Candidate Filing - Withdrawal](#)

Withdrawal deadline is **March 18, 2021** at **5:00 PM PST**.

Campaign Finance

Campaign finance filings are now filed with Secretary of State Office. Please contact the Elections Division at 503-986-1518 or visit their website at <http://sos.oregon.gov/voting/Pages/default.aspx> for more information.

County Voters' Pamphlet

First, determine if there will be a County Voters' Pamphlet produced for this election. Inclusion in the County Voters' Pamphlet is optional with a fee. Please refer to the [County Voters' Pamphlet](#) page for instructions, deadlines and fees.

Good afternoon,

As most of you know our interim superintendent will be leaving the end of June 2023 and we are starting to work on finding our next superintendent. Please take some time to complete the survey.

Below is the link to the Qualities and Qualifications (Q&Qs) survey for our Superintendent search, Please take some time and help us with what you would like to see in a new Superintendent.

<https://www.surveymonkey.com/r/AlseaSD2022>

10. Approval of Minutes: September 22, 2022, September 24, 2022

Alsea School Board Retreat
Saturday, September 24, 2022 12:00 PM
Pacific

Alsea School Library
301 South 3rd Street
Alsea, OR 97324

1. Call to Order

Risteen called meeting to order at 12:00pm

2. Flag Salute

3. Approval of the Agenda

Agenda approved with no additions.

4. Board Operating Agreement

OSBA Instructions &

Samples: https://www.osba.org/Resources/Article/Board_Operations/Board_Operating_Agreements.aspx

Deb Lindberg was absent, but she submitted to the Board Chair the things she wanted to talk about.

Examples of board operating agreements were given to board members. After the board looked at examples, they agreed that using the Central Linn example fit the best and would work with additions and editing. The board felt that simple is best over length. Ryan Van Leaven felt that if it was too long it would be over kill. Would also help criticism to a minimum by going short.

Risteen Follett likes the purpose statement in some of them. Should we go that route or straight into the why? (under board norms at the corvallis webpage)

Rob Webb likes the time piece where it states a distinct start and end time.

Not list the board secretary as the first point of contact for responding to communications.

Ryan Van Leaven should first start with how we operate, then go into how they communicate.

Sample on OSBA #1 - scratch the communication piece.

Addressing how the staff and community want to communicate with the board, they don't always go to the Superintendent. Need to "train the community" in how to go about the process correctly.

Keep the neutrality of the board with the complaint process. Rob Webb doesn't like that comfortability doesn't exist anymore, everyone should feel comfortable talking to the board.

Linda Montanez knows everyone and redirects to the correct process when they come to her. Although there are some complaints, listening to them is inevitable.

Sean Gallagher tries to get to the bottom of what the individual has tried so far and then gets them on the right track.

Risteen Follett - first one is following the chain of command (basic and to the point), don't spring surprises, collective decision making process, senior leadership (Sean Gallagher said :that's usually for larger districts), exemplify the governance rule (change wording), annually conduct a self examination (assessment evaluation tool), clearly state goals, utilize CEO (combine with) board acts as a body, meeting protocol: add a,b,c,d for the following 4, CHILDREN'S INTERESTS COME FIRST (should be the first thing or in the mission statement),

When things are presented for the first time not always going to be an action item in the meeting.

Board goals-something to look into creating.

RyanVan Leuven - section or paragraph about communication,

Linda Montanez - would like to see something done today not be so specific to the point that the board can't make a decision.

Document was edited during the meeting - real time

Deb Lindberg wanted to talk about the staff having the right to communicate to the board. Risteen Follett would like to have Sean Gallagher talk to Deb Lindberg about the complaint.

Compensation/wages/stipends should be brought to the board before they are granted. They will have a market analysis done to make sure they are comparable.

Rob Webb feels like there should be more board involvement in the classified compensation process so the school doesn't suffer in the long run.

The board discussed the transportation problem, and they discussed the online program and the need for advertising to bring more students into the program.

The board will work with the superintendent to develop a district communication plan and be open to communication with the staff.

5. Adjourned
1:57pm

6. Referenced Board Policies

1. Call to Order

2. Flag Salute

3. Approval of the Agenda

Risteen Follett Move to Accept Agenda with change 11c; Seconded Deb Lindberg, All in Favor. This motion, made by Risteen Follett and seconded by Deb Lindberg, Carried.

Risteen Follett: Yea, Deb Lindberg: Yea, Linda Montanez: Yea, Ryan VanLeuven: Yea, Robert Webb: Yea
Yea: 5, Nay: 0

*ADDITION*to the Agenda, Action item of 11c Superintendent Goals to be voted upon
NO additional additions.

4. Present Superintendent Search Calendar (OSBA, Vincent Adams)

Vincent Adams from OSBA presented the Superintendent search calendar. The calendar goes over timelines as to what and how actions will be taken to hire a new Superintendent .

Three things that Vincent Adams needs from the Board . Board needs:to declare the Superintendent's seat will be vacant on a future date? Has the board formally retained OSBA to assist with the Superintendent Search? Last, you will need to approve the draft calendar? First step is to approve the calendar (plan). Vincent Adams went over each step which is lined out in the calendar. Vincent Adams feels positive about our search-the other three that he has going are having great pools being drawn.

Risteen Follett asked how to select committee members. Do we ask people to apply or can something be posted? Vincent Adams you can choose. You'll want staff and admin, others who have experience? Ryan Van Leaven asked about a formal letter? Vincent Adams said to reach out to individual people who you want to be on the committee (12-15 people). Do they need to sign a confidentiality agreement? Vincent Adams said yes. Deb Lindberg stated:conflict with vacation. Vincent Adams said you can do a virtual interview. You'll want to go directly into negotiations once you find a candidate that is wanted. Have a lawyer go over the contract before presenting it. Jan 17th can not be moved. You will want to cyber stock each candidate. Ask the references for other individuals that you might want to talk to. You can go do site visits. Vincent Adams said you can interview anywhere between 2-4 candidates. Ask staff for their input. Have the contract parameters pre done. Risteen Follett asked if the board would like to add an action item to declare the vacancy.

5. District Recognition:

a. Learn at Home Oregon

i. Employee

b. Brick and Mortar

i. Student:

ii. Employee

District Recognition for LaHO: Tim France recognized two students, with a short video presented by Heather Shunk. Rebecca, the mom of a student, Emma, is a 1st grade student. Told how her Mom makes her day special. Mom made a "school bus" for her to be picked up and drops her off at "school" The Learn at Home Magic

Cheryl Doe: presented LaHO Teacher recognition. SpEd teacher: Leslie Boser: all around fantastic employee, teacher of the month, she really enjoys working for Alsea, the first district where she feels she can grow. Leslie Boser is from St Helens OR. Sean Gallagher stated that there is such a different environment between the LaHO and B&M transition.

Sean Gallagher presented Mary O'brien with the brick and mortar recognition. Mary O'brien, organized a sale of old books that were outdated. Working on an up-to-date inventory, she spent the summer going through our library of over 8,000 books.

Sean Gallagher presented Linda Montanez a sash that Mr. Crowe made for her as an alumni prom queen in 1967.

6. Superintendent Report:

Sean Gallagher

- a. Superintendent Goals 2022 -2023
- b. District Priority Projects
- c. Legislative Roadshow
- d. Celebrate National School Lunch Week
- e. Bond Update: Sean Gallagher
- f. Alsea Project Manager Update

Superintendent report: Goals: (word doc) student achievement, implementing aligning for student success, continuous improvement plan, student investment, everyday matters. Take the district goals and make it bigger. The other two goals were wonderful and he wanted to keep them the same, and felt that they were worth keeping. Open to thoughts and input.

District property projects: seen before it matters of updating where they were at, head lice presentation up later. The next 6-8 months will be a heavy lift on board policy implementation. Charter review will be coming, updating and continuing, increased communication (fireside chats). Deb Lindberg would like to see the dates posted ahead of time.

Personnel: hierarchy chart, secretary of state will be sending an audit team to the school. The attorney says this is big. HR reset is still coming, teacher contracts are being evaluated, job descriptions are almost done, support staff next, salary adjustments will be brought to the board. Hiring: restoring the staff evaluation process, restoring the staff handbook, sustainability of the budget-supplementary budget will be coming our way mid year, programs: synergy transformation will be coming. Will be a heavy lift, but provide amazing data on the students. Deb Lindberg asked if it is an internal communication program? "Sean Gallagher said," Yes, it's a system where you can have certain data accessible to staff and not available to others. Risteen Follett asked what's the draw to moving? Sean Gallagher, we don't want to use outdated and less efficient systems. It allows us to have better data management for our students, a better way to deep dive for the needs of the student. Math textbooks are adopted and being

used is a learning process. Language Arts text books are in the works. State and Fed Reports are upcoming. There are many. I just received last spring's data, and will see the results at the next meeting. Facilities, Bond update shortly, seismic application just opened - wants to reach out to group who will help us.

Risteen Follett: Cert staff negotiation? Not yet, but they will let us know when they are ready to open negotiations. There will be 2 Board members and 2 Administrators at the table.

Legislative roadshow: big board involvement Oct 17th at LBLESD 6pm dinner, 7pm meeting, lots of legislative information will be gone over. School funding...lots of information. All can attend. Let Shirley Koetz know if you would like to attend.

Celebrate National School Lunch Week: email Shirley Koetz if you would like to attend

Bond update: Sean Gallagher and Ryan VanLeaven said the word they are hearing about GMP #'s are still soft, the board still wants hard numbers. Patience is key. Project Manager, Sean Gallagher has been working through LBL to get the person, HMK David McKay, to shorten the time if we go with someone who knows. Ryan Van Leuven said the numbers were soft because they got them yesterday and CB hadn't seen them yet. Next week there might have to be a meeting. We asked David McKey to look at the numbers too. Ryan VanLeaven: HVAC for sure. Electricity might still be out. Deb Lindberg asked about soft numbers. Andy Bryphy said they have 2 numbers for mechanical, electrical panel supply, and electrical budget number for today. No time yet to pick them apart. Risteen Follett asked if the next GMP is going to be the entire project or just pieces, going back. The initial contract was just very basic and going forward as packages came up they would come back as individual GMP's. There would be several that would come back. There was reprioritization of the pieces. HVAC then VOC (have numbers, getting better ones), warm shell and cold shell where options presented. The original hallway turned into just a paneled room and then paving the gravel, power upgrade program...last Kitchen upgrade if money. Ryan Vanleuven asked if we were going to have electrical and HVAC numbers coming in next time. Andy' Bryphy will push for those.

7. Patron Comments

No Patron Comments.

8. Board Comments

8a. OSBA Annual Conference November 11-13, 2022

Deb Lindberg would like to attend the OSBA Annual Conference but not sure she can. When would be the last day to cancel?

9. Approval of Minutes July 14, Sept 8, Sept 12

Deb Lindberg moved to accept the minutes for July 14, 2022, September 8, 2022, and September 12, 2022; Robert Webb Seconded, All in Favor. This motion, made by Deb Lindberg and seconded by Robert Webb, Carried.

Risteen Follett: Yea, Deb Lindberg: Yea, Linda Montanez: Yea, Ryan VanLeuven: Yea, Robert Webb: Yea

Yea: 5, Nay: 0

Deb Lindberg would like to attend the OSBA Annual Conference but not sure she can. When would be the last day to cancel?

10. First Reading of Policies:

Guest Presenter: Betsy Brooks, Alsea School Nurse

- i. JHCCF Pediculosis (Head Lice)
- ii. JHCC/GBEB-AR Communicable Diseases
- iii. JHCCF-AR Pediculosis (Head Lice)

First Reading of policies: Betsy Brooks

There are three policies and two AR's to consider. Board approves the policies and the administration does the AR's, just talking about them now. Second reading is when you approve them. Sean Gallagher will add a memo to recommend changes, but wanted to hear from the nurse.

Betsy Brooks shared a screen, explained she has done this for Lincoln county. Alsea is completely different and doesn't want students to miss school. Betsy Brooks uses the NASN guidelines. Having someone come in and check every classroom for nits isn't cost effective and can cause other adverse effects. Sean Gallagher asked to have it emailed to him and Shirley. Betsy Brooks spoke about our current policies. She cannot think of one good thing about them. You could see sky rocketing absenteeism.

Betsy Brooks cons: kids will be excluded for long periods of time, violating confidentiality and civil liberties. Based on old information.

Eddyvilles/Siletz policy: this version is a lot less harsh, not likely to have kids miss much school. Follow the proper authorities guidelines.

Risteen Follett are the handouts in other districts about how to handle the environment and home care? Betsy Brooks said they don't live long enough to survive once off the head. No need to do the old antiquated things anymore. VIDEO she will share (EPA website)

11. Action Items:

- a. Approve Calendar Days to include a School Day
- b. Superintendent Search Calendar

Risteen Follett Moved to Approve the Additional School day of January 6, 2023 to calendar; Ryan VanLeaven Seconded, All in Favor. This motion, made by Risteen Follett and seconded by Ryan VanLeuven, Carried.

Risteen Follett: Yea, Deb Lindberg: Yea, Linda Montanez: Yea, Ryan VanLeuven: Yea, Robert Webb: Yea

Yea: 5, Nay: 0

Deb Lindberg moved to adopt the Superintendent Search Calendar, Ryan Van Leaven seconded. All in favor. This motion, made by Deb Lindberg and seconded by Ryan VanLeuven, Carried.

Risteen Follett: Yea, Deb Lindberg: Yea, Linda Montanez: Yea, Ryan VanLeuven: Yea, Robert Webb: Yea

Yea: 5, Nay: 0

Deb Lindberg Moved to Adopt the Superintendent Goals: Linda Montanez, Seconded, All in favor. This motion, made by Deb Lindberg and seconded by Linda Montanez, Carried. Risteen Follett: Yea, Deb Lindberg: Yea, Linda Montanez: Yea, Ryan VanLeuven: Yea, Robert Webb: Yea

Yea: 5, Nay: 0

Deb Lindberg Moved to Declared a Vacancy of the Superintendent on July 1, 2023, Ryan Van Leaven second, All in favor. This motion, made by Deb Lindberg and seconded by Ryan VanLeuven, Carried.

Risteen Follett: Yea, Deb Lindberg: Yea, Linda Montanez: Yea, Ryan VanLeuven: Yea, Robert Webb: Yea

Yea: 5, Nay: 0

Action items:

School day to be included in the school calendar. Jan 2nd needed to be changed, but we didn't add a school day so we would like to add Jan 6th which is a Friday as the school day. Risteen Follett motioned, Ryan VanLeaven seconded. All in favor

Deb Lindberg motioned to adopt the Superintendent Search calendar, Ryan Van Leaven seconded. All in favor

Superintendent Goal Adoption: Deb Lindberg motioned, Linda Montanez, seconded, All in favor

Declared a vacancy of Superintendent on July 1, 2023, Deb Lindberg motioned. Ryan Van Leaven second, All in favor

Remove item e.

12. Executive Session:

Went into Executive Session at 8:35pm

13. Adjourn

Back into open session at 8:46, Adjourned meeting. The next meeting will be a Board Retreat on September 24th between 12:00pm - 4:00pm.

14. Key Dates and Calendar Updates:

September 24, Board Retreat 12:00pm to 4:00pm

September 26 - 31 Homecoming Week

October 13, 7:00pm Regular Board Meeting

October 14, Teacher Work Day

October 21, In-service/Grading

October 26, 8:00am Picture Retakes

October 27, 7:00pm Regular Board Meeting

October 27, Early Release/Student Conferences

October 28, Student Conferences

11. First Reading of FMLA
 - i. GCBDA/GDBDA - Family Medical Leave

Alsea School District 7J

Code: **GCBDA/GDBDA**
Adopted: 3/13/96
Readopted: 7/12/10; 1/13/16; 6/13/17
Orig. Code(s): GCBDA/GDBDA

Family Medical Leave

When applicable, the district will comply with the provisions of the Family and Medical Leave Act (FMLA) of 1993, the Oregon Family Leave Act (OFLA) of 1995, the Military Family Leave Act as part of the National Defense Authorization Acts of 2008 and for Fiscal Year 2010 (which expanded certain leave to military families and veterans for specific circumstances), the Oregon Military Family Leave Act of (OMFLA) 2009 and other applicable provisions of Board policies and collective bargaining agreements regarding family medical leave.

FMLA applies to districts with 50 or more employees within 75 miles of the employee's worksite, based on employment during each working day during any of the 20 or more work weeks in the calendar year in which the leave is to be taken, or in the calendar year preceding the year in which the leave is to be taken. The 50 employee test does not apply to educational institutions for determining employee eligibility.

OFLA and OMFLA applies to districts that employ 25 or more part-time or full-time employees in Oregon, based on employment during each working day during any of the 20 or more work weeks in the calendar year in which the leave is to be taken, or in the calendar year immediately preceding the year in which the leave is to be taken.

In order for an employee to be eligible for the benefits under FMLA, he/she must have been employed by the district for at least 12 months and have worked at least 1,250 hours during the past 12-month period.

In order for an employee to be eligible for the benefit under OFLA, he/she must work an average of 25 hours per week and have been employed at least 180 calendar days prior to the first day of the family medical leave of absence. For parental leave purposes, an employee becomes eligible upon completing at least 180 calendar days immediately preceding the date on which the parental leave begins. There is no minimum average number of hours worked per week when determining employee eligibility for parental leave.

OMFLA applies to employees who work an average of at least 20 hours per week, there is no minimum number of days worked when determining an employee's eligibility for OMFLA

Federal and state leave entitlements generally run concurrently.

The superintendent or designee will develop administrative regulations as necessary for the implementation of the provisions of both federal and state law.

END OF POLICY

Legal Reference(s):

[ORS 332.507](#)

[ORS 342.545](#)

[ORS 659A.090](#)

[ORS 659A.093](#)

[ORS 659A.096](#)

[ORS 659A.099](#)

[ORS 659A.150 to -659A.186](#)

[OAR 839-009-0200 to -0320](#)

Americans with Disabilities Act, 42 U.S.C. §§ 12101-12213; 29 C.F.R. Part 1630 (2017); 28 C.F.R. Part 35 (2017).

Family and Medical Leave Act, 29 U.S.C. §§ 2601-2654 (2017); 5 U.S.C. §§ 6381-6387 (2017); Family and Medical Leave Act, 29 C.F.R. Part 825 (2017).

Americans with Disabilities Act Amendments Act of 2008.

Escriva v. Foster Poultry Farms, Inc. 743 F.3d 1236 (9th Cir. 2014).

Cross Reference(s):

GCBDD/GDBDD - Sick Time

12. Seconded Reading and approval of Policies:

- i. JHCCF Pediculosis (Head Lice)
- ii. JHCC/GBEB-AR Communicable Diseases
- iii. JHCCF-AR Pediculosis (Head Lice)

OSBA Model Sample Policy

Code: JHCCF
Adopted:

Pediculosis (Head Lice)

(Version 1)

(Excludes a student infested with either live lice or nits; does not allow attendance of a student with live lice or nits.)

The Board recognizes that district programs should be conducted in a manner that protects and enhances student and employee health and is consistent with recognized health practices. Consequently, in order to prevent the spread of pediculosis (head lice) in the school setting, district staff shall institute guidelines for classrooms that will assist in the prevention of and the spread of head lice. A student with a suspected case of lice shall be referred to the school nurse or administrator for an assessment. A student found with live lice or nits (lice eggs) will be excluded from school attendance. The district recognizes that the Oregon Health Authority, Public Health Division, no longer requires exclusion of a student for the presence of nits and allows the discretion of the district. A student excluded from school will be readmitted after an assessment by designated personnel to confirm no live lice or nits are present, and may be subject to periodic checks.

Successful treatment of head lice requires a coordinated approach and may involve the use of anti-lice products, combing and implementation of preventative measures recommended by health authorities. Treatment information will be provided by the district to parents of students found to have contracted head lice. It is the district's intent to encourage elimination of the current infestation and to prevent a repeat episode.

The superintendent will develop administrative regulations, as necessary, to implement this policy.

END OF POLICY

Legal Reference(s):

[ORS 433.255](#)
[ORS 433.260](#)

[OAR 333-019-0010](#)
[OAR 437-002-0360](#)

[OAR 581-022-2220](#)

OSBA Model Sample Policy

Code: JHCCF
Adopted:

Pediculosis (Head Lice)

(Version 2)

(Excludes a student with 10 or more live lice; allows attendance of a student with nits and less than 10 live lice.)

A student with a suspected case of head lice will be referred to the school nurse or administrator for assessment. A student found with live lice may be excluded from school. A parent of the student will be notified and treatment will be requested.[Students with a severe infestation¹ will be excluded immediately until treated.] [A student excluded from school that has been treated will be readmitted after an assessment by designated personnel.] The student may be subject to periodic checks.

The successful treatment of head lice requires a coordinated approach and may involve the use of anti-lice products, combing and implementation of preventative measures recommended by health authorities. Treatment information will be provided by the district to the parents of students found to have contracted head lice.

The superintendent will develop administrative regulations, as necessary, to implement this policy.

END OF POLICY

Legal Reference(s):

[ORS 433.255](#)
[ORS 433.260](#)
[OAR 333-019-0010](#)
[OAR 437-002-0360](#)
[OAR 581-022-2220](#)

¹ Ten or more live lice are present on the student upon assessment by designated personnel.

National Association of School Nurses, Pediculosis Management in the School Setting: Position Statement Revised 2011.
American Academy of Pediatrics: Position Statement on Head Lice 8-1-2012.
Centers for Disease Control and Prevention Head Lice Information for Schools 2011.

OSBA Model Sample Policy

Code: JHCCF
Adopted:

Pediculosis (Head Lice)

(Version 3)

(A student with nits and/or infested with live lice will be allowed to remain in school.)

A student with a suspected case of head lice may be referred to designated trained staff for a screening. The screening will be done in a confidential manner by trained personnel.

School personnel will notify the parent or guardian of a student found with head lice and provide information on appropriate treatment. The student will be allowed to remain in school.

The suggested school measures for head lice control, as provided in *Head Lice Guidance* published by the Oregon Department of Education and the Oregon Health Authority, Public Health Division,¹ shall be followed.

END OF POLICY

Legal Reference(s):

[ORS 332.107](#)

¹ <http://www.oregon.gov/ode/students-and-family/healthsafety/Pages/Student-Health-Conditions.aspx>

NATIONAL ASSOCIATION OF SCHOOL NURSES, *Pediculosis Management in the School Setting*, (POSITION STATEMENT REVISED 2016).
THE AMERICAN ACADEMY OF PEDIATRICS, *Head Lice*, (MAY, 2015).
CENTERS FOR DISEASE CONTROL AND PREVENTION, *Head Lice Information for Schools* (2015).
OREGON DEPARTMENT OF EDUCATION, *Head Lice Guidance* (2017).

OSBA Model Sample Policy

Code: JHCCF-AR
Revised/Reviewed:

Pediculosis (Head Lice)

(Exclude a student infested with either live lice or nits; does not allow attendance of a student with live lice or nits.)
(Version 1)

A student found to have contracted head lice will be subject to the following procedures:

1. Suggested school measures for head lice control, as provided in *Communicable Disease*¹ issued through the Oregon Department of Education;
2. Periodic head lice checks of students are not recommended; however, screening recommendations are as follows:
 - a. [Criteria for screening an individual for lice are:
 - (1) Persistent itching or scratching;
 - (2) Known exposure to sibling or other close contact with head lice (e.g., seat mate in classroom, locker partners, overnight sleep activities, scouts, etc.); or
 - (3) Self (student or parent) referral.
 - b. Three nonrelated cases of head lice in a classroom within 10 consecutive school days requires that all students in the classroom be screened by the following school day;
 - c. If there is infestation among three percent of the entire student population within 10 consecutive school days, there should be a screening of all students in the school within one week. Multiple cases from a single household count as one case for purposes of calculating the percent of students infested.]
3. Students found to have contracted head lice will be excluded from school (Oregon Administrative Rule (OAR) 333-019-0010);
4. Treatment information, district policy requirements and readmittance provisions will be provided to the parent. A parent will be advised to:
 - a. Use a lice-killing agent that a health care provider, school nurse or local health authority has recommended on all family members who have symptoms of infestation;
 - b. Follow the personal and household cleaning instructions provided by the district, health care provider or local health authority, as appropriate; and
 - c. Remove all nits after treatment.

¹ <http://www.oregon.gov/ode/students-and-family/healthsafety/Documents/commddisease.pdf>

5. Following treatment, the student may be readmitted to school. A parent must either accompany his/her student to school for readmittance or provide a signed statement that treatment has been initiated;
6. The student will be subject to screening by designated personnel to determine the treatment's effectiveness. The student will be readmitted to school or denied admittance, as appropriate. The absence of live lice or nits is required for readmittance. In the event the student is not readmitted to school, parents will be notified;
7. A student who has been readmitted to school will be subject to follow-up screening by designated personnel;
8. The parent should contact his/her local health department in the event additional assistance and/or information is needed regarding the treatment of the student, other family members, close contacts and the home environment (e.g., bedding, linens, grooming equipment, etc.);
9. A student with chronic head lice may be referred for follow-up to the school's nurse or local health department, as appropriate;
10. A parent who identifies head lice on his/her student(s) at home should complete treatment prior to the readmission of the student, as required above. A parent is also encouraged to notify the school of his/her student's condition so that appropriate preventative measures may be implemented at school.

OSBA Model Sample Policy

Code: JHCCF-AR
Revised/Reviewed:

Pediculosis (Head Lice)

(Exclude a student with 10 or more live lice; allows attendance of a student with nits and less than 10 live lice.)

(Version 2)

Suggested school measures for head lice control, as provided in *Communicable Disease*¹ issued through the Oregon Department of Education will be followed.

1. Periodic head lice checks of students are not recommended; however, screening recommendations are as follows:
 - a. Criteria for screening an individual for lice are:
 - (1) Persistent itching or scratching;
 - (2) Known exposure to sibling or other close contact with head lice (e.g., seat mate in classroom, locker partners, overnight sleep activities, scouts, etc.); or
 - (3) Self (student or parent) referral.
 - b. Three nonrelated cases of head lice in a classroom within 10 consecutive school days requires that all students in the classroom be screened by the following school day;
 - c. If there is infestation among three percent of the entire student population within 10 consecutive school days, there should be a screening of all students in the school within one week. Multiple cases from a single household count as one case for purposes of calculating the percentage of students infested.
2. Treatment information, district policy requirements and readmittance provisions will be provided to a parent. A parent will be advised to:
 - a. Use a lice-killing agent that a health care provider, school nurse or local health authority has recommended on all family members who demonstrate symptoms of infestation; and
 - b. Follow the personal and household cleaning instructions provided by the district, health care provider or local health authority, as appropriate.
3. Following treatment, the student may be readmitted to school. A parent must either accompany his/her student to school for readmittance or provide a signed statement that treatment has been initiated.
4. The student will be subject to screening by designated personnel to determine the treatment's effectiveness. The student will be readmitted to school or denied admittance, as appropriate.

¹ <http://www.oregon.gov/ode/students-and-family/healthsafety/Documents/commdisease.pdf>

5. A student who has been readmitted to school will be subject to follow-up screening by designated personnel.
6. The parent should contact his/her local health department in the event additional assistance and/or information is needed regarding the treatment of the student, other family members, close contacts and the home environment (e.g., bedding, linens, grooming equipment, etc.).
7. A student with chronic head lice may be referred for follow-up to the school's nurse or local health department, as appropriate.
8. A parent who identifies head lice on his/her student(s) at home should complete treatment prior to the readmission of the student, as required above. A parent is also encouraged to notify the school of his/her student's condition so that appropriate preventative measures may be implemented at school.



District Administration Office
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MEMO

Date: 9/23/22

To: Board of Directors

From: Sean Gallagher – Acting Superintendent

Re: BP JHCCF Version 3 – Pediculosis (Head Lice)

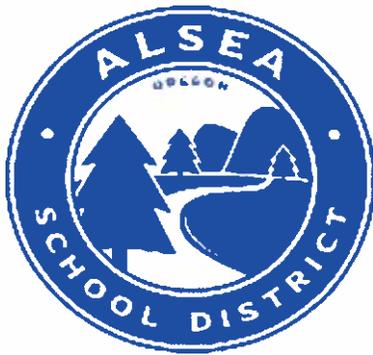
Per the first reading board session with Betsy Brooks – ASD Nurse, I am recommending that the board of directors adopts BP JHCCF Version 3 that allows a student with nits and/or infested with head lice be allowed to remain in school. This policy reflects the following recommendations:

NATIONAL ASSOCIATION OF SCHOOL NURSES, Pediculosis Management in the School Setting, (POSITION STATEMENT REVISED 2016).

THE AMERICAN ACADEMY OF PEDIATRICS, Head Lice, (MAY, 2015).

CENTERS FOR DISEASE CONTROL AND PREVENTION, Head Lice Information for Schools (2015).

OREGON DEPARTMENT OF EDUCATION, Head Lice Guidance (2017).



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MEMO

Date: 9/23/22

To: Board of Directors

From: Sean Gallagher – Acting Superintendent

Re: BP JHCCF Version 3 – Pediculosis (Head Lice)

Per the first reading board session with Betsy Brooks – ASD Nurse, I am recommending that the board of directors adopts BP JHCCF Version 3 that allows a student with nits and/or infested with head lice be allowed to remain in school. This policy reflects the following recommendations:

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CENTERS FOR DISEASE CONTROL AND PREVENTION, Head Lice Information for Schools (2015).

OREGON DEPARTMENT OF EDUCATION, Head Lice Guidance (2017).

13. Action Items:

- a. Approval for RFP to get a Project Manager
- b. Alsea School Board Operating Agreement
- c. Approval of Grant 23178, Stay on track to Graduate
- d. Approval of Weather Station Grant Request
- e. Surplus, Math Books
- f. Surplus Equipment
- g. Approval of Division 22 Standards
- h. Approve GMP for the Bond



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MEMO

Date: 10/13/2022

To: Board of Directors

From: Sean Gallagher – Acting Superintendent

Re: Project Manager RFP

I have fully explored options to attain the services of a project manager for the current bond construction project since our last board meeting. At this time I am recommending that the board direct the Superintendent to develop a Request for Proposal (RFP) to secure Project Manager services. The recommended cost is approximately 3.5% of the project value which is around \$192K. An effective and efficient project manager will be able to save the cost of services within the project and ensure that the project maintains a scheduled timeline. The RFP will be advertised locally, statewide, and nationally. The district will need to conduct interviews after 5-6 weeks of advertising to select the best qualified. I will be developing the RFP with the assistance of Jason Hay – LBL ESD Asst Superintendent per board approval.

ALSEA SCHOOL BOARD OPERATING AGREEMENT

The Alsea School Board also has Board and Superintendent Working Agreements, which provide guidance regarding meeting operations and communications that represent the needs and interests of all the students in the district.

HOW WE OPERATE AS A BOARD:

1. Don't spring surprises on other board members or the superintendent. Surprises to the board or the superintendent will be the exception, not the rule. If the board requests more information, actions upon agenda items will move to a follow up meeting.
2. Follow the chain of command. We agree to follow the chain of command and insist that others do so. While the board is eager to listen to its constituents and staff, each inquiry is to be referred to the person who can properly and expeditiously address the issue.
 - Information that will likely require considerable time or have political implications are to be directed to the superintendent.
 - All personnel complaints and criticisms received by the board, or its individual members will be directed to the superintendent.
3. Communication between staff and the board is encouraged. The board and superintendent will create and implement a communications plan and strategy.
4. Own the collective decision-making process. The Alsea board will allow their voice to be their vote. The board will support decisions made by the board and/or the administrative team once a decision is made. We will support the majority decision(s).
5. Exemplify the governance role. The Alsea School Board will support the policies our district currently has in place.
6. Clearly state goals. The board will set clear goals for itself and the superintendent. The board and superintendent will set clear goals for the district.
7. Only the board as a whole has authority. We agree that an individual board member will not take unilateral action.
 - The board chair will communicate the position(s) of the board on controversial issues only after the board has voted.
 - When board members serve on various board committees, their role shall be defined by the board as silent observer or active participant.
 - The board will utilize Superintendent input
8. Conduct at a board meeting is very important and board members will handle themselves professionally and with respect towards others. We will not react to impromptu complaints but will assure any individual(s) that the school district will follow up.
 - Conduct efficient and effective board meetings
 - Speak to agenda topics
 - As a general practice, the board will not converse with the audience including electronic messaging
 - Executive sessions will be held only for legally appropriate subjects



District Administration Office
Mr. Sean Gallagher – Acting Superintendent
301 S 3rd St
Alsea, OR 97324
Office: 541 487-5643
Fax: 541 487-4089

Email: sean.gallagher@alsea.k12.or.us
www.alsea.k12.or.us

MEMO

Date: 9/27/22

To: Board of Directors

From: Sean Gallagher – Acting Superintendent

Re: State of Oregon Grant Agreement – Grant No. 23178

Attached is a grant agreement with the State of Oregon to provide funding to align school, district, and community systems in order to help students stay on track to graduate from high school. The grant amount is \$2,765 and expire June 30, 2023. The district has hired a new guidance counselor for the 2022-23 school year whose job will be to focus on graduation and career plans for the 2022-23 school year. The funds will be used to support this process. I recommend the board approves this grant.

STATE OF OREGON GRANT AGREEMENT

Grant No. 23178

This Grant Agreement (“Grant”) is between the State of Oregon acting by and through its Department of Education (“Agency”) and Alsea SD 7J (“Grantee”), each a “Party” and, together, the “Parties”.

SECTION 1: AUTHORITY

Pursuant to ORS 327.367 and OAR 581-017-0660 to 581-017-0672, Agency is authorized to enter into a grant agreement and provide funding for the purposes described in this Grant.

SECTION 2: PURPOSE

The purpose of this Grant is to provide funding to align school, district, and community systems in order to help students stay on track to graduate from high school.

SECTION 3: EFFECTIVE DATE AND DURATION

When all Parties have executed this Grant, and all necessary approvals have been obtained (“Executed Date”), this Grant is effective and has a Grant funding start date as of July 1, 2022 (“Effective Date”), and, unless extended or terminated earlier in accordance with its terms, will expire on June 30, 2023.

SECTION 4: GRANT MANAGERS

4.1 Agency’s Grant Manager is:

Dany Douglas
Office of Education Innovation and Improvement, Programs & Practices
255 Capitol St NE
Salem OR 97310
503-400-0189
Dany.Douglas@ode.oregon.gov

4.2 Grantee’s Grant Manager is:

Sean Gallagher

PO Box B

Alsea, OR 97324-0120

sean.gallagher@alsea.k12.or.us

4.3 A Party may designate a new Grant Manager by written notice to the other Party.

SECTION 5: PROJECT ACTIVITIES

Grantee must perform the project activities set forth in Exhibit A (the “Project”), attached hereto and incorporated in this Grant by this reference, for the period beginning on the Effective Date and ending on the expiration date set forth in Section 2 (the “Performance Period”).

SECTION 6: GRANT FUNDS

In accordance with the terms and conditions of this Grant, Agency will provide Grantee up to \$2,765.00 (“Grant Funds”) for the Project. Agency will pay the Grant Funds from monies available through its Statewide Education Initiatives Account (“Funding Source”).

SECTION 7: DISBURSEMENT GENERALLY

7.1 Disbursement.

7.1.1 Subject to the availability of sufficient moneys in and from the Funding Source based on Agency’s reasonable projections of moneys accruing to the Funding Source, Agency will disburse Grant Funds to Grantee for the allowable Project activities described in Exhibit A that are undertaken during the Performance Period.

7.1.2 Grantee must provide to Agency any information or detail regarding the expenditure of Grant Funds required under Exhibit A prior to disbursement or as Agency may request.

7.2 **Conditions Precedent to Disbursement.** Agency’s obligation to disburse Grant Funds to Grantee under this Grant is subject to satisfaction of each of the following conditions precedent:

7.2.1 Agency has received sufficient funding, appropriations, expenditure limitation, allotments or other necessary expenditure authorizations to allow Agency, in the exercise of its reasonable administrative discretion, to make the disbursement from the Funding Source;

7.2.2 No default as described in Section 11 has occurred; and

7.2.3 Grantee’s representations and warranties set forth in Section 7 are true and correct on the date of disbursement(s) with the same effect as though made on the date of disbursement.

7.3 **No Duplicate Payment.** Grantee may use other funds in addition to the Grant Funds to complete the Project; provided, however, the Grantee may not credit or pay any Grant Funds for Project costs that are paid for with other funds and would result in duplicate funding.

SECTION 8: REPRESENTATIONS AND WARRANTIES

8.1 **Organization/Authority.** Grantee represents and warrants to Agency that:

8.1.1 Grantee is a(n) School District duly organized and validly existing in the State of Oregon;

ODE GRANT #23178 – Early Indicator and Intervention System Grant

- 8.1.2** Grantee has all necessary rights, powers and authority under any organizational documents and under Oregon Law to (i) execute this Grant, (ii) incur and perform its obligations under this Grant, and (iii) receive financing, including the Grant Funds, for the Project;
- 8.1.3** This Grant has been duly executed by Grantee and when executed by Agency, constitutes a legal, valid and binding obligation of Grantee enforceable in accordance with its terms; and
- 8.1.4** If applicable and necessary, the execution and delivery of this Grant by Grantee has been authorized by an ordinance, order or resolution of its governing body, or voter approval, that was adopted in accordance with applicable law and requirements for filing public notices and holding public meetings.

SECTION 9: INDEMNITY/LIABILITY

Grantee must defend (subject to the approval of the Attorney General and ORS chapter 180), save, hold harmless, and indemnify the State of Oregon and Agency and their officers, employees and agents from and against all claims, suits, actions, losses, damages, liabilities, costs, and expenses of any nature whatsoever, including attorneys’ fees, resulting from, arising out of, or relating to the activities of Grantee or its officers, employees, subgrantees, contractors, subcontractors, or agents under this Grant (each of the foregoing individually or collectively a “Claim” for purposes of this Section). If legal limitations apply to the indemnification ability of Grantee, this indemnification must be for the maximum amount of funds available for expenditure, including any available contingency funds, insurance, funds available under ORS 30.260 to 30.300 or other non-appropriated funds available for payment of an indemnity obligation.

SECTION 10: GOVERNING LAW, JURISDICTION

This Grant is governed by and construed in accordance with the laws of the State of Oregon without regard to principles of conflicts of law. Any claim, action, suit or proceeding (collectively “Claim”) between Agency or any other agency or department of the State of Oregon, or both, and Grantee that arises from or relates to this Grant must be brought and conducted solely and exclusively within the Circuit Court of Marion County for the State of Oregon.

SECTION 11: ALTERNATIVE DISPUTE RESOLUTION

The Parties should attempt in good faith to resolve any dispute arising out of this Grant. This may be done at any management level, including at a level higher than persons directly responsible for administration of the Grant. In addition, the Parties may agree to utilize a jointly selected mediator or arbitrator (for non-binding arbitration) to resolve the dispute short of litigation. Each Party will bear its own costs incurred for any mediation or non-binding arbitration.

SECTION 12: DEFAULT

- 12.1** **Grantee.** Grantee will be in default under this Grant upon the occurrence of any of the following events:
 - 12.1.1** Grantee fails to use the Grant Funds for the intended purpose described in Exhibit A or

otherwise fails to perform, observe or discharge any of its covenants, agreements or obligations under this Grant;

12.1.2 Any representation, warranty or statement made by Grantee in this Grant or in any documents or reports relied upon by Agency to measure the Project, the expenditure of Grant Funds or the performance by Grantee is untrue in any material respect when made; or

12.1.3 A petition, proceeding or case is filed by or against Grantee under any federal or state bankruptcy, insolvency, receivership or other law relating to reorganization, liquidation, dissolution, winding-up or adjustment of debts; in the case of a petition filed against Grantee, Grantee acquiesces to such petition or such petition is not dismissed within 20 calendar days after such filing, or such dismissal is not final or is subject to appeal; or Grantee becomes insolvent or admits its inability to pay its debts as they become due, or Grantee makes an assignment for the benefit of its creditors.

12.2 Agency. Agency will be in default under this Grant if, after 15 days written notice specifying the nature of the default, Agency fails to perform, observe or discharge any of its covenants, agreements, or obligations under this Grant; provided, however, Agency will not be in default if Agency fails to disburse Grant Funds because there is insufficient expenditure authority for, or moneys available from, the Funding Source.

SECTION 13: REMEDIES

13.1 Agency Remedies. In the event Grantee is in default under Section 11.1, Agency may, at its option, pursue any or all of the remedies available to it under this Grant and at law or in equity, including, but not limited to: (i) termination of this Grant under Section 14.2, (ii) reducing or withholding payment for Project activities or materials that are deficient or Grantee has failed to complete by any scheduled deadlines, (iii) requiring Grantee to complete, at Grantee's expense, additional activities necessary to satisfy its obligations or meet performance standards under this Grant, (iv) initiation of an action or proceeding for damages, specific performance, or declaratory or injunctive relief, (v) exercise of its right of recovery of overpayments under Section 13 of this Grant or setoff, or both, or (vi) declaring Grantee ineligible for the receipt of future awards from Agency. These remedies are cumulative to the extent the remedies are not inconsistent, and Agency may pursue any remedy or remedies singly, collectively, successively or in any order whatsoever.

13.2 Grantee Remedies. In the event Agency is in default under Section 11.2 and whether or not Grantee elects to terminate this Grant, Grantee's sole monetary remedy will be, within any limits set forth in this Grant, reimbursement of Project activities completed and accepted by Agency and authorized expenses incurred, less any claims Agency has against Grantee. In no event will Agency be liable to Grantee for any expenses related to termination of this Grant or for anticipated profits.

SECTION 14: WITHHOLDING FUNDS, RECOVERY

Agency may withhold from disbursements of Grant Funds due to Grantee, or Grantee must return to Agency within 30 days of Agency's written demand:

14.1 Any Grant Funds paid to Grantee under this Grant, or payments made under any other agreement between Agency and Grantee, that exceed the amount to which Grantee is entitled;

ODE GRANT #23178 – Early Indicator and Intervention System Grant

- 14.2** Any Grant Funds received by Grantee that remain unexpended or contractually committed for payment of the Project at the end of the Performance Period;
- 14.3** Any Grant Funds determined by Agency to be spent for purposes other than allowable Project activities; or
- 14.4** Any Grant Funds requested by Grantee as payment for deficient activities or materials.

SECTION 15: TERMINATION

- 15.1 Mutual.** This Grant may be terminated at any time by mutual written consent of the Parties.
- 15.2 By Agency.** Agency may terminate this Grant as follows:
 - 15.2.1** At Agency's discretion, upon 30 days advance written notice to Grantee;
 - 15.2.2** Immediately upon written notice to Grantee, if Agency fails to receive funding, or appropriations, limitations or other expenditure authority at levels sufficient in Agency's reasonable administrative discretion, to perform its obligations under this Grant;
 - 15.2.3** Immediately upon written notice to Grantee, if federal or state laws, rules, regulations or guidelines are modified or interpreted in such a way that Agency's performance under this Grant is prohibited or Agency is prohibited from funding the Grant from the Funding Source; or
 - 15.2.4** Immediately upon written notice to Grantee, if Grantee is in default under this Grant and such default remains uncured 15 days after written notice thereof to Grantee.
- 15.3 By Grantee.** Grantee may terminate this Grant as follows:
 - 15.3.1** If Grantee is a governmental entity, immediately upon written notice to Agency, if Grantee fails to receive funding, or appropriations, limitations or other expenditure authority at levels sufficient to perform its obligations under this Grant.
 - 15.3.2** If Grantee is a governmental entity, immediately upon written notice to Agency, if applicable laws, rules, regulations or guidelines are modified or interpreted in such a way that the Project activities contemplated under this Grant are prohibited by law or Grantee is prohibited from paying for the Project from the Grant Funds or other planned Project funding; or
 - 15.3.3** Immediately upon written notice to Agency, if Agency is in default under this Grant and such default remains uncured 15 days after written notice thereof to Agency.
- 15.4 Cease Activities.** Upon receiving a notice of termination of this Grant, Grantee must immediately cease all activities under this Grant, unless Agency expressly directs otherwise in such notice. Upon termination, Grantee must deliver to Agency all materials or other property that are or would be required to be provided to Agency under this Grant or that are needed to complete the Project activities that would have been performed by Grantee.

SECTION 16: MISCELLANEOUS

- 16.1 Nonappropriation.** Agency's obligation to pay any amounts and otherwise perform its duties under this Grant is conditioned upon Agency receiving funding, appropriations, limitations, allotments, or other expenditure authority sufficient to allow Agency, in the exercise of its reasonable administrative discretion, to meet its obligations under this Grant. Nothing in this Grant may be construed as permitting any violation of Article XI, Section 7 of the Oregon Constitution or any other law limiting the activities, liabilities or monetary obligations of Agency.
- 16.2 Amendments.** The terms of this Grant may not be altered, modified, supplemented or otherwise amended, except by written agreement of the Parties.
- 16.3 Notice.** Except as otherwise expressly provided in this Grant, any notices to be given under this Grant must be given in writing by email, personal delivery, or postage prepaid mail, to a Party's Grant Manager at the physical address or email address set forth in this Grant, or to such other addresses as either Party may indicate pursuant to this Section. Any notice so addressed and mailed becomes effective five (5) days after mailing. Any notice given by personal delivery becomes effective when actually delivered. Any notice given by email becomes effective upon the sender's receipt of confirmation generated by the recipient's email system that the notice has been received by the recipient's email system.
- 16.4 Survival.** All rights and obligations of the Parties under this Grant will cease upon termination of this Grant, other than the rights and obligations that by their express terms are intended to survive termination of this Grant; provided, however, termination of this Grant will not prejudice any rights or obligations accrued to the Parties under this Grant prior to termination.
- 16.5 Severability.** The Parties agree if any term or provision of this Grant is declared by a court of competent jurisdiction to be illegal or in conflict with any law, the validity of the remaining terms and provisions will not be affected, and the rights and obligations of the Parties will be construed and enforced as if the Grant did not contain the particular term or provision held to be invalid.
- 16.6 Counterparts.** This Grant may be executed in several counterparts, all of which when taken together constitute one agreement, notwithstanding that all Parties are not signatories to the same counterpart. Each copy of the Grant so executed constitutes an original.
- 16.7 Compliance with Law.** In connection with their activities under this Grant, the Parties must comply with all applicable federal, state and local laws.
- 16.8 Intended Beneficiaries.** Agency and Grantee are the only parties to this Grant and are the only parties entitled to enforce its terms. Nothing in this Grant provides, is intended to provide, or may be construed to provide any direct or indirect benefit or right to third persons unless such third persons are individually identified by name herein and expressly described as intended beneficiaries of this Grant.
- 16.9 Assignment and Successors.** Grantee may not assign or transfer its interest in this Grant without the prior written consent of Agency and any attempt by Grantee to assign or transfer its interest in this Grant without such consent will be void and of no force or effect. Agency's consent to Grantee's assignment or transfer of its interest in this Grant will not relieve Grantee of any of its duties or obligations under this Grant. The provisions of this Grant will be binding upon and inure to the benefit of the Parties hereto, and their respective successors and permitted assigns.
- 16.10 Contracts and Subgrants.** Grantee may not, without Agency's prior written consent, enter into any

ODE GRANT #23178 - Early Indicator and Intervention System Grant

contracts or subgrants for any of the Project activities required of Grantee under this Grant. Agency's consent to any contract or subgrant will not relieve Grantee of any of its duties or obligations under this Grant.

- 16.11 Time of the Essence.** Time is of the essence in Grantee's performance of the Project activities under this Grant.
- 16.12 Records Maintenance and Access.** Grantee must maintain all financial records relating to this Grant in accordance with generally accepted accounting principles. In addition, Grantee must maintain any other records, whether in paper, electronic or other form, pertinent to this Grant in such a manner as to clearly document Grantee's performance. All financial records and other records, whether in paper, electronic or other form, that are pertinent to this Grant, are collectively referred to as "Records." Grantee acknowledges and agrees Agency and the Oregon Secretary of State's Office and the federal government and their duly authorized representatives will have access to all Records to perform examinations and audits and make excerpts and transcripts. Grantee must retain and keep accessible all Records for a minimum of six (6) years, or such longer period as may be required by applicable law, following termination of this Grant, or until the conclusion of any audit, controversy or litigation arising out of or related to this Grant, whichever date is later.
- 16.13 Merger, Waiver.** This Grant and all exhibits and attachments, if any, constitute the entire agreement between the Parties on the subject matter hereof. There are no understandings, agreements, or representations, oral or written, not specified herein regarding this Grant. No waiver or consent under this Grant binds either Party unless in writing and signed by both Parties. Such waiver or consent, if made, is effective only in the specific instance and for the specific purpose given.

SECTION 17: SIGNATURES

EACH PARTY, BY SIGNATURE OF ITS AUTHORIZED REPRESENTATIVE, HEREBY ACKNOWLEDGES IT HAS READ THIS GRANT, UNDERSTANDS IT, AND AGREES TO BE BOUND BY ITS TERMS AND CONDITIONS. The Parties further agree that by the exchange of this Grant electronically, each has agreed to the use of electronic means, if applicable, instead of the exchange of physical documents and manual signatures. By inserting an electronic or manual signature below, each authorized representative acknowledges that it is their signature, that each intends to execute this Grant, and that their electronic or manual signature should be given full force and effect to create a valid and legally binding agreement.

IN WITNESS WHEREOF, the Parties have executed this Grant as of the dates set forth below.

STATE OF OREGON acting by and through its Department of Education

By: _____
Contract Specialist

Date

Alsea SD 71
By: 
Authorized Signature

9/20/20
Date

Sean Gallagher
Printed Name

Superintendent
Title

93-6000203
Federal Tax ID Number

EXHIBIT A THE PROJECT

SECTION I. PROJECT ACTIVITIES, SCHEDULE, AND BUDGET

Grantee must use the Grant Funds as described in OAR 581-017-0666 and outlined below to implement an Early Indicator and Intervention System that assists students in graduating from high school.

A system funded under this Grant must enable school districts, students, students' families, educators, school counselors and community organizations to take necessary corrective actions to assist students in graduating from high school.

Grant Funds may be used towards the following eligible expenditures:

- (a) System software purchases and subscriptions;
- (b) Staffing to maintain the system and facilitate corrective action;
- (c) Training for staff to maintain and use the system with fidelity;
- (d) Data analysis and research;
- (e) Tribal government consultation; and
- (f) Student, family, staff, and community engagement

Grantee must expend all Grant Funds no later than June 30, 2023 and claims must be submitted to Agency for review and approval within 45 days from this date (no later than August 14, 2023).

Direct Project Costs. Agency will disburse Grant Funds only for the costs of Project activities that occur, including expenses incurred, during the Performance Period.

Indirect/Administrative Costs. Grantee will not be reimbursed for any indirect or administrative costs with Grant Funds. The information described in this paragraph overrides any other verbal or written rate(s) or information provided by Agency, including in any notice of award provided by Agency's Electronic Grants Management System ("EGMS").

SECTION II. PROJECT EVALUATION/REPORTING REQUIREMENTS

Grantee will submit a Reporting Form to Agency detailing the specific uses and summary of how Grant Funds impacted the project as instructed in Section III below.

If the Performance Period begins prior to the Executed Date, any reports for Project activities shown in this Exhibit A as due prior to the Executed Date must be provided to Agency within 30 days of the Executed Date, if not already provided to Agency despite the lack of an executed Grant. Grantee will not be in default for failure to perform any reporting requirements prior to the Executed Date.

SECTION III. DISBURSEMENT PROVISIONS

Agency will disburse the Grant Funds using EGMS, on a cost incurred basis upon receipt of Grantee's request(s) for disbursement.

With the final request for disbursement, Grantee must submit the Reporting Form located on the Agency website: <https://www.oregon.gov/ode/StudentSuccess/Pages/EIIS.aspx>.



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MEMO

Date: 9/30/22

To: Board of Directors

From: Sean Gallagher – Acting Superintendent

Re: Weather Station Grant Application

Attached is a \$1000 grant application submitted by Mr. David Crowe – CTE Teacher for a weather station to find “*correlation between historical and current environmental inputs and relatable growth outputs of the young forest*”. Hands-on experiences for students as described in this grant application provide educational opportunities beyond the classroom. I recommend the board approves this grant application. The district hopes to hear by mid-November selection results.

At Alsea high school our Forestry & Natural Resources classes have posed the question; will a warmer local climate impact and change our beloved NW forests? Will atmospheric inputs like rises in temperatures, declines in rain fall amounts, length of heat waves, and Co2 saturations cause a decline in the growth patterns of our forests? Will certain species of trees decline or even disappear from areas where they once thrived? Will our industrial outputs and vital watersheds be impacted by this change? All over the West things are changing dramatically as fires rage, water stores decline and stresses on our overall silviculture framework is currently being witnessed.

Our students want to know if it is happening here, and if it is, can anything be done to prepare for the potential economic and societal impact that it could potentially have on our way of life?

To that end, the students of the Alsea high school Forestry & Natural Resources classes would like to submit the grant proposal of partnering with Selco Community Credit Union to purchase a professional quality Wi-Fi enabled weather station to install and implement next to our outdoor forestry lab. This monitoring equipment will be used in conjunction with hard data gathered by “boots on the ground efforts” of our students in our lab. These two consistently changing data sets will then be melded into traceable graphing systems for the students to compare inputs and outputs. The goal of this effort would be setting up mechanisms in hopes finding correlation between historical and current environmental inputs and relatable growth outputs of the young forest. This grant would be instrumental in establishing a precedent of ongoing environmental and atmospheric awareness by our students as we gather much needed data to ponder and process the climatic question posed above. This data collection will be an ongoing effort passed down from one group of students to another for years to come.

Our school and students are fortunate to be located in a rural setting with a small stand of Douglas Fir trees right next our facilities. This stand of young and vital trees is approximately 20-25 years old, which is a prime age for our desired growth tracking processes. We have worked diligently to measure, mark, and establish a one-acre plot of trees within the overall stand that we will use as our control area. Within that one acre “outdoor forest lab” we have individually numbered and tagged each tree. After tagging, the tree is intensely evaluated for overall health, structural make up, size measured at DBH(diameter at breast height) and categorized within the following areas; dominate, co-dominate, suppressed or defective. We have labeled this categorization effort as our initial outdoor lab identification survey used to establish baseline data.

This is where we need help to take our experimental efforts to the next level. We have captured the “boots on the ground” inputs, now we need the inputs from the local microclimate. We need a formidable weather station, and we need your help to purchase it. We have spent a fair amount of time to narrow down the desired attributes and have found a suitable unit that will meet our needs for data capture. As an added side benefit of this unit capturing real-time data for our classes it will also be beneficial to our local community because the data captured will be livestreamed to our school website for the community usage and benefit.

The students of Alsea School District would like to extend a sincere thank you for your consideration of partnering with us. We wish to build connections as we continue the educational journey with wonder and enthusiastic evaluation through exploration of our local natural world. It is our future.

SPARK! Creative Learning Grants 2022-23

DEADLINE : September 30 2022 at 11:59 PM PDT (Midnight)

Applicant Information

Name: David Crowe
Email: david.crowe@alsea.k12.or.us
App ID: 03777126
Status: Submitted
Cycle: None
Last Modified: Sep 30 2022 14:49 PDT by david.crowe@alsea.k12.or.us
App Submitted: Sep 30 2022 14:49 PDT by david.crowe@alsea.k12.or.us
App Created: Sep 26 2022 13:54 PDT by david.crowe@alsea.k12.or.us
Last IP Address: 34.120.172.148

Welcome

Eligibility

Before You Apply

Scoring Criteria

Basic Information

Applicant Information

Full Name: David Crowe

Contact Email: david.crowe@alsea.k12.or.us

Contact Phone: 503-910-4073

**Have you received a SPARK!
Creative Learning Grant within the
last three years?** No

School Information

School Name:	Alsea High School
School County:	Benton
School District:	Alsea School District
Is your school public or private?	Public
School Tax ID or EIN:	936000203
Approximately how many students attend your school?	76
Has the proposed project been approved by your principal or supervisor?	Yes
School Mailing Address:	301 S 3rd st
City:	Alsea
State:	OR
ZIP code:	97324

Project Information

Project Impact

How many students would benefit from the project in the grant year?	30
Would a single grant fund this project for multiple years?	Yes
Please explain.	

The overarching goal of this grant proposal is to create an ongoing year over year data stream from a professional quality weather station to work in conjunction with our hands-on measurements and observations that our students compile in our outdoor forestry lab. A single grant award would empower many years of atmospheric learning inputs coupled with comparison basis data from years past allowing students to create historical observations.

Project Description

Project Name: Our changing NW Forests

Project Subject: Career & Technical Education

One-Sentence Project Description (see past examples here):

Using real world hands on observations and electronic weather monitoring data to gauge if a warmer climate will change our beloved NW greenways.

Comprehensive Project Description (include basic description, clear goals, and demonstrate creativity and innovation):

At Alsea high school our Forestry & Natural Resources classes have posed the question; will a warmer local climate impact and change our beloved NW forests? Will atmospheric inputs like rises in temperatures, declines in rain fall amounts, length of heat waves, and Co2 saturations cause a decline in the growth patterns of our forests? Will certain species of trees decline or even disappear from areas where they once thrived? Will our industrial outputs and vital watersheds be impacted by this change? All over the West things are changing dramatically as fires rage, water stores decline and stresses on our overall silviculture framework is currently being witnessed.

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The students of Alsea School District would like to extend a sincere thank you for your consideration of partnering with us. We wish to build connections as we continue the educational journey with wonder and enthusiastic evaluation through exploration of our local natural world. It is our future.

Project Budget

Requested Amount (up to \$1,000):	\$1000
--	--------

Will your project cost more than \$1,000?	No
--	----

How would you like to submit your itemized project budget?	Text box within this form
---	---------------------------

Detail your itemized project budget:	
---	--

- 1) 6153 Vantage Pro2 Wireless Weather Station by Davis Instruments - \$835.14
- 2) Davis Instruments Weather Station Mounting Tripod - \$141.06
- 3) 10' stick of 2" EMT Conduit for Weather Station Mounting Pole - \$22.98

Total spend for weather station purchase \$999.18

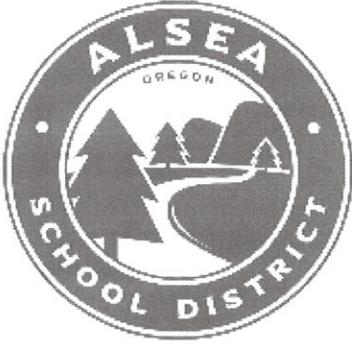
Final Step

Reporting

Disclaimer

By typing your name in the boxes below, you agree that this constitutes a legal signature.

David Crowe, Teacher, Alsea School



Lori Greenfield, Curriculum

301 S 3rd St
PO BOX B
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MEMO

Date: 10-5-2022

To: Sean Gallagher

From: Lori Greenfield

Re: Math Surplus Inventory

ok for board approval

10/6/22

Alsea School District owns a significant number of unused math workbooks that are not slated for use as our district adopted new, more appropriate curricula. This initial list only represents the books outside of the metal wing in the hopes that the School Board will deem them to be surplus. This will allow the district to sell them to another district that will make use of these materials. It is desirable to move these materials before the rains begin this fall. Currently, there is limited storage available for additional unused curricula and equipment.

Additional materials are being inventoried for the School Board to review in the future. These include high school workbooks for the *Open Up* curriculum and *Go Math* curriculum for grades K-5th. In Appendix A you will find a table showing grade levels, units, and quantities as well as which box holds which materials.

Sincerely,

Lori Greenfield

Appendix A

APPENDIX A

Middle School *Open Up* Math Curriculum Inventory

6 th Grade	Unit 1	Box 1	22
	Unit 2	Box 1	10
	Unit 3	Box 1	29
	Unit 4	Box 3	26
	Unit 5	Box 3	28
	Unit 6	Box 2	24
	Unit 7	Box 2	36
	Unit 8	Box 2	30
7 th Grade	Unit 1	Box 1	15
	Unit 2	Box 1	30
	Unit 3	Box 1	32
	Unit 4	Box 3	30
	Unit 5	Box 3	30
	Unit 6	Box 3	30
	Unit 7	Box 2	23
	Unit 8	Box 2	12
8 th Grade	Unit 1	Box 1	11
	Unit 2	Box 1	32
	Unit 3	Box 1	30
	Unit 4	Box 3	30
	Unit 5	Box 2 (6) & Box 3 (24)	30
	Unit 6	Box 2 (10) & Box 3 (20)	30
	Unit 7	Box 3	30
	Unit 8	Box 2	30

DIVISION 22 STANDARDS/EVIDENCE

Internal Tracking Sheet for [Alea School District 7J]

2021-2022 School Year Compliance

Rule Number & Title	Summary	Evidence that supports <u>NOT</u> meeting requirements of the rule (policy, program, systems/process, etc.)	Corrective Action Notes	Compliance Status
<p>*New Rules/Requirements for reporting on the 2021-22 SY are highlighted in yellow</p> <p>**New Rules/Requirements for implementation in the 2022-23 SY are highlighted in blue</p>	<p>* <i>Modifications and waivers for 2021-22 are in italics and highlighted in yellow</i></p> <p>** <i>Modifications and waivers for 2022-23 are in italics and highlighted in blue</i></p>			
Teaching & Learning				
Curriculum & Instruction				
581-022-2030 District Curriculum	<p>Outlines all required components of a district's planned K–12 instructional program.</p>	<ol style="list-style-type: none"> 1. Comprehensive School Counseling, 2. Common curriculum goals for technology, 3. Career related learning standards, 4. Emergency plans and safety programs 	<ol style="list-style-type: none"> 1. Hired K-12 Guidance Counselor who is implementing the state comprehensive guidance counselor program. 2. The district needs to develop Technology CCG's 3. Will be implemented as part of the guidance counselor program. 4. Restructuring with the consultation of the Willamette ESD through a State grant and in partnership with ACE Community Preparedness. 	<p>Not in compliance implementing action plan</p>
581-022-2045- Prevention Education in Drugs and Alcohol	<p>Emphasizes prevention strategies, availability of school/community resources, management of peer</p>			<p>IN COMPLIANCE</p>

Rule Number & Title *New Rules/Requirements for reporting on the 2021-22 SY are highlighted in yellow **New Rules/Requirements for implementation in the 2022-23 SY are highlighted in blue	Summary * <i>Modifications and waivers for 2021-22 are in italics and highlighted in yellow</i> ** <i>Modifications and waivers for 2022-23 are in italics and highlighted in blue</i>	Evidence that supports <u>NOT</u> meeting requirements of the rule (policy, program, systems/process, etc.)	Corrective Action Notes	Compliance Status
	pressure, responsible decision-making, positive health choices. Includes staff training re: referral procedures and staff responsibilities.			
581-022-2050 Human Sexuality Education	Districts must plan for and implement K-12 comprehensive sexuality education program that meets the Health Education Standards, including providing instruction on child abuse prevention, healthy relationships, and healthy sexuality.			IN COMPLIANCE
581-022-2055 Career Education	K-12 Career Education as part of Comprehensive School Counseling.	Not a full program established yet	We met this standard practically and the remedy is simply full implementation of the school counseling program.	Not in compliance implementing action plan
581-022-2060 Comprehensive School Counseling	Comprehensive district and school counseling program at each school based on Oregon's Framework for Comprehensive School Counseling Programs to support the academic, career, social-emotional and community involvement development of every student. Education and career plan and profile for all students in grades 7-12, that builds upon itself each year. Annual review of the district and each schools' comprehensive counseling program.	Not a full program established yet	Rewriting school counseling job description and implementing the school counseling program	Not in compliance implementing action plan

Rule Number & Title *New Rules/Requirements for reporting on the 2021-22 SY are highlighted in yellow **New Rules/Requirements for implementation in the 2022-23 SY are highlighted in blue	Summary * <i>Modifications and waivers for 2021-22 are in italics and highlighted in yellow</i> ** <i>Modifications and waivers for 2022-23 are in italics and highlighted in blue</i>	Evidence that supports <u>NOT</u> meeting requirements of the rule (policy, program, systems/process, etc.)	Corrective Action Notes	Compliance Status
	Districts operating remote or online programs and serving students in a remote instructional model must ensure full access to comprehensive counseling services.			
*581-022-2263 Physical Education Requirements	Grade level time requirements for PE instruction. K-5 requirement: 150 minutes/week (4 day week = 120 minutes). *6-8 requirement for 2021-22 SY: 180 minutes/week (4 day week = 144 minutes). **Increase to 225 for the 2022-23 SY (4 day week = 180). Requirements must also be met for students being served in a remote and online instructional model.	1. Not in compliance for k-5 for last school year 2. 6-8 we were in compliance	1. We need to increase our PE time for the 22-23 school year. 2. Preemptive action plan to meet the increase of physical education requirements.	Not in compliance implementing action plan
581-022-2320 Required Instructional Time	Requirements for instructional time in grades K-12: Grade 12 — 966 hours; Grades 9–11 — 990 hours; and Grades K–8 — 900 hours. Requirements must also be met for students being served in a remote and online instructional model. See Remote & Online Learning Policy FAQ .			IN COMPLIANCE

Rule Number & Title *New Rules/Requirements for reporting on the 2021-22 SY are highlighted in yellow **New Rules/Requirements for implementation in the 2022-23 SY are highlighted in blue	Summary * <i>Modifications and waivers for 2021-22 are in italics and highlighted in yellow</i> ** <i>Modifications and waivers for 2022-23 are in italics and highlighted in blue</i>	Evidence that supports <u>NOT</u> meeting requirements of the rule (policy, program, systems/process, etc.)	Corrective Action Notes	Compliance Status
581-022-2340 Media Programs	<p>Provides guidelines for a cohesive K-12 media program, including expectations around facilities and materials, staffing, program development, instructional goals, and program maintenance.</p> <p>In regards to staffing, at minimum, a district/school must employ a classified employee to oversee and maintain the media program. If a certificated media specialist is not employed by the district, the district may consult with Jennifer Maurer, the School Library Consultant at the State Library of Oregon, and should either consult with the local ESD, or a local public librarian to assist with program development, implementation, and maintenance.</p>	1. Instructional Facilities 2. Certified Media Specialist 3. Program and Course goal for media	1. We increased access to proper instructional facilities by establishing a MOU with Corvallis/Benton County Library Services. 2. District needs to advertise and hire a properly certified Librarian 3. District need to establish specific Media Goals for the program	Not in compliance implementing action plan
** 581-022-2500 Programs and Services for TAG Students	Written plan required. Must include <ol style="list-style-type: none"> 1. Identification process 2. Services 3. Statement of district philosophy 4. Statement of district goals 5. Description of nature of services to meet goals. 6. Evaluation plan <p>Student plans must address level and rate of learning.</p>	Not a full program established yet	The District has revised the TAG plan for the 22-23 school year and is in the process of implementing.	Not in compliance, implementing action plan

Rule Number & Title *New Rules/Requirements for reporting on the 2021-22 SY are highlighted in yellow **New Rules/Requirements for implementation in the 2022-23 SY are highlighted in blue	Summary * <i>Modifications and waivers for 2021-22 are in italics and highlighted in yellow</i> ** <i>Modifications and waivers for 2022-23 are in italics and highlighted in blue</i>	Evidence that supports <u>NOT</u> meeting requirements of the rule (policy, program, systems/process, etc.)	Corrective Action Notes	Compliance Status
	Other rule requirements defined. Revised standard adopted in 2022 (SB 486). **New for 2022-23 SY: Districts shall post current TAG plan on the district website and have it available on request. Districts shall update ODE annually with district TAG contact information. Parents and students have the right to discuss the TAG plan. Updated TAG plans are due to ODE by May 1, 2023.			
Instructional Materials				
581-022-2350 Independent Adoptions of Instructional Materials	Requirements for conducting an independent adoption of instructional materials. Districts that use digital content as core curriculum for a course of study or any part thereof must complete an independent adoption of the digital instructional materials. If districts did not do this process in the 2021-22 school year or prior, they will need to indicate this in their Division 22 reporting in November 2022, and complete the process to resolve this non-compliance. Districts must provide their local school board with			IN COMPLIANCE

Rule Number & Title *New Rules/Requirements for reporting on the 2021-22 SY are highlighted in yellow **New Rules/Requirements for implementation in the 2022-23 SY are highlighted in blue	Summary * <i>Modifications and waivers for 2021-22 are in italics and highlighted in yellow</i> ** <i>Modifications and waivers for 2022-23 are in italics and highlighted in blue</i>	Evidence that supports <u>NOT</u> meeting requirements of the rule (policy, program, systems/process, etc.)	Corrective Action Notes	Compliance Status
	the information in sections 1 through 7 of OAR 581-022-2350 to inform the local school board's review and independent adoption of instructional materials.			
581-022-2355 Instructional Materials Adoption	Districts must follow the adoption cycle established by the State Board of Education and provide free and appropriate instructional materials that meet the NIMAS guidelines.			IN COMPLIANCE
581-022-2360 Postponement of Purchase of State-Adopted Instructional Materials	Postponement of instructional materials adoption, based on the state adoption cycle, requires an application to the State.	The District had become out of sync with the adoption process.	The District adopted secondary Math Fall 2022 and will adopt K-12 ELA in 2022/2023 which is in process. District is out of sync with adoption process and will submit postponement application in the future.	Not in compliance implementing action plan
Assessment & Reporting				
581-022-2100 Administration of State Assessments	Definitions and policies related to Test Administration.			IN COMPLIANCE
581-022-2110 Exception of Students with Disabilities from State Assessments	Applies to students with disabilities with an IEP or a Section 504 plan. States that a public entity cannot			IN COMPLIANCE

Rule Number & Title <i>*New Rules/Requirements for reporting on the 2021-22 SY are highlighted in yellow</i> <i>**New Rules/Requirements for implementation in the 2022-23 SY are highlighted in blue</i>	Summary <i>* Modifications and waivers for 2021-22 are in italics and highlighted in yellow</i> <i>**Modifications and waivers for 2022-23 are in italics and highlighted in blue</i>	Evidence that supports <u>NOT</u> meeting requirements of the rule (policy, program, systems/process, etc.)	Corrective Action Notes	Compliance Status
	exempt a student from state testing, unless the parent has made a request for exemption.			
581-022-2115 Assessment of Essential Skills	<i>*Waiver – Assessment of Essential Skills graduation requirement for class of 2022, 2023, and 2024. See section (22) of the rule.</i> Policies governing the Assessment of Essential Skills, including diploma requirements and local performance assessments. One work sample per grade must be provided to students in grades 3-8 and one offered in high school, using Official State Scoring Guides, in the following areas: writing, speaking, math problem-solving, and scientific inquiry; or, comparable measure adopted by the district. Also defines Assessment of Essential Skills Review Panel (AESRP) policies/practices.			IN COMPLIANCE
581-022-2120 Essential Skill Assessments for English Language Learners	Districts must determine policy whether to allow students to demonstrate proficiency in the student’s native language.			IN COMPLIANCE
581-022-2130 Kindergarten Assessment	<i>*Waived for 2021-22.</i>			IN COMPLIANCE

Rule Number & Title <i>*New Rules/Requirements for reporting on the 2021-22 SY are highlighted in yellow</i> <i>**New Rules/Requirements for implementation in the 2022-23 SY are highlighted in blue</i>	Summary <i>* Modifications and waivers for 2021-22 are in italics and highlighted in yellow</i> <i>**Modifications and waivers for 2022-23 are in italics and highlighted in blue</i>	Evidence that supports <u>NOT</u> meeting requirements of the rule (policy, program, systems/process, etc.)	Corrective Action Notes	Compliance Status
	KA measures school readiness, which may include the following: physical and social-emotional development, early literacy, language, cognitive, logic and reasoning.			
581-022-2270 Individual Student Assessment, Recordkeeping and Reporting	Includes requirements for proficiency-based instruction and assessment, grading systems, and annual reports on student progress.			IN COMPLIANCE
581-022-2445 Universal Screenings for Risk Factors of Dyslexia	School districts must universally screen for risk factors of dyslexia in kindergarten, and for students entering Oregon schools for the first time in first grade, using a screening test that is on the Department's approved list . Districts may select a tool not on the approved list through a petition process outlined in the rule.	Not a full program established and maintained.	The District has since trained two staff members on dyslexia screening and is currently implementing a consistent screening process district wide to comply with this standard.	Not in compliance implementing action plan
Program & Service Requirements				
581-022-2315 Special Education for Children with Disabilities	Mandates a district provide an educational program to serve eligible students with disabilities in accordance with all applicable OARs.			IN COMPLIANCE

Rule Number & Title *New Rules/Requirements for reporting on the 2021-22 SY are highlighted in yellow **New Rules/Requirements for implementation in the 2022-23 SY are highlighted in blue	Summary * <i>Modifications and waivers for 2021-22 are in italics and highlighted in yellow</i> ** <i>Modifications and waivers for 2022-23 are in italics and highlighted in blue</i>	Evidence that supports <u>NOT</u> meeting requirements of the rule (policy, program, systems/process, etc.)	Corrective Action Notes	Compliance Status
** 581-022-2325 Identification of Academically Talented and Intellectually Gifted Students	Guidelines for TAG identification. Revised standard adopted in 2022. **New for 2022-23 SY: Person who is responsible for identification must be trained.	Not a full program established and maintained.	The District has since hired and trained and Special Programs Specialist who has designed and is implementing a TAG program to comply with this standard.	Not in compliance, implementing action plan.
581-022-2330 Rights of Parents of TAG Students	Parent right to notification at time of identification regarding services and programs offered, opportunity to provide input on their child's plan. Parents may opt their student out at any time.	Not a full program established and maintained.	The District has since hired and trained and Special Programs Specialist who has designed and is implementing a TAG program to comply with this standard.	Not in compliance, implementing action plan.
581-022-2505 Alternative Education Programs	Policies and procedures relative to alternative education programs.	Correct rules/policies have not been followed.	The District removed all out of compliance alt ed programs to focus on Learn at Home Oregon and Brink and Mortar only, which are in compliance	Not in compliance implementing action plan

High School Diploma

Rule Number & Title <i>*New Rules/Requirements for reporting on the 2021-22 SY are highlighted in yellow</i> <i>**New Rules/Requirements for implementation in the 2022-23 SY are highlighted in blue</i>	Summary <i>* Modifications and waivers for 2021-22 are in italics and highlighted in yellow</i> <i>**Modifications and waivers for 2022-23 are in italics and highlighted in blue</i>	Evidence that supports <u>NOT</u> meeting requirements of the rule (policy, program, systems/process, etc.)	Corrective Action Notes	Compliance Status
581-022-2000 Diploma Requirements	<i>*Waiver – Essential Skills for class of 2022. OAR 581-022-2000(7) is waived for students first enrolled in ninth grade in the 2018-19 school year or earlier or who were first enrolled in ninth grade in the 2019-2020 SY and have an approved early graduation plan.</i> All requirements for standard diploma.	Correct rules/policies have not been followed.	1.The District has redesigned the alternative education program to ensure all awarded credits towards graduation meet High School performance criteria 2.The District is implementing necessary processes to build education plans and profiles for each 7-12 student, which will be reviewed annually.	Not in compliance implementing action plan
581-022-2005 Veterans Diploma	Basic information regarding the requirement to offer Veterans Diploma.			IN COMPLIANCE
581-022-2010 Modified Diploma	All requirements for the Modified Diploma.			IN COMPLIANCE
581-022-2015 Extended Diploma	All requirements for the Extended Diploma.			IN COMPLIANCE
581-022-2020 Alternative Certificate	All requirements for the Alternative Certificate.			IN COMPLIANCE
581-022-2025 Credit Options	Elective or content credit may be earned based on mastery of recognized standards, competencies and skills.			IN COMPLIANCE

Rule Number & Title *New Rules/Requirements for reporting on the 2021-22 SY are highlighted in yellow **New Rules/Requirements for implementation in the 2022-23 SY are highlighted in blue	Summary <i>* Modifications and waivers for 2021-22 are in italics and highlighted in yellow</i> <i>**Modifications and waivers for 2022-23 are in italics and highlighted in blue</i>	Evidence that supports <u>NOT</u> meeting requirements of the rule (policy, program, systems/process, etc.)	Corrective Action Notes	Compliance Status
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Health & Safety

Policies & Practices

581-022-2205 Policies on Reporting of Child Abuse	School Boards must adopt policies on Child Abuse Reporting. Outlines all requirements that the policy must include.			IN COMPLIANCE
581-022-2220 Health Services	Policies/practices that govern district health, including: school nurses services, prevention of communicable disease, availability of health rooms/space, vision and hearing screenings, health records, staff CPR training requirements, medically fragile student services, medication administration, and medical emergency response for each building.	Adequate resources had not been made available.	Since March 2022 the district is in compliance with direct partnership with OHS, OSHA and ODE. The district has since hired a school nurse and an SLP to fully implement this OAR. We have also reestablished our partnership with Benton County Health.	Not in compliance implementing action plan
581-022-2310 Equal Education Opportunities	Policies regarding Equal Opportunity and prohibition of harassment, intimidation, bullying, and cyberbullying,			IN COMPLIANCE
581-022-2312 Every Student Belongs	Requires adoption of a policy that (among other things) prohibits the use or display of hate symbols, establishes procedures for addressing bias incidents.	Policies were not being followed correctly.	After March 2022 the school district began to enforce the district policy that prohibits discrimination and harassment for employees.	Not in compliance implementing action plan

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	Districts that sponsor public charter schools are also assuring their charter schools have adopted the appropriate policy.			
581-022-2345 Auxiliary Services	Compliance with statute and rules regarding transportation, food, custodial, facilities, equipment and materials services.			IN COMPLIANCE
Plans & Reports				
* 581-022-0106(4) State Standards for the 2021-22 School Year: Operational Plans	School districts and public charter schools must periodically submit to the Department a plan for operation during the 2021-22 school year. The plan must be submitted on a timeline to be determined by the Department and on a form provided by the Department. **This requirement will carry over to the 2022-23 school year under OAR 581-022-0107 Operational Plans for the 2022-23 School Year.			IN COMPLIANCE
581-022-2223 Healthy and Safe Schools Plan	Regulations for establishing and updating HASS Plans, annual statements/final test results re: lead in water tested as per ODE schedule set forth in HASS plan.			IN COMPLIANCE

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581-022-2225 Emergency Plans and Safety Programs	Requirements for Emergency and Safety Plan, which includes staff and student safety training. Procedure for Accident Reports. Required drills for fire, earthquake, lockdown, lockout, shelter in place, evacuation.	Regular safety trainings had not been followed.	The district has contracted with Willamette ESD, partnered with Benton County Sheriff, and Alsea Community Effort (ACE) to revise and update emergency safety plans, develop MOU's with outside agencies and installed proper equipment to full conduct all required drills.	Not in compliance implementing action plan
581-022-2230 Asbestos Management Plans	Asbestos Management Plan requirements. Training requirement for custodial and maintenance staff- OSHA.			IN COMPLIANCE
581-022-2267 Annual Report on Restraint and Seclusion	Definitions and guidance on requirements for annual report completed via the ODE Restraint and Seclusion Incidents Data Collection and the ODE Seclusion Rooms Data Collection.			IN COMPLIANCE
581-022-2510 Suicide Prevention Plan	Requires adoption of a policy on suicide prevention for students, particularly focused on LGBTQ2SIA+ (lesbian, gay, bisexual, transgender/non-binary, queer/questioning, two-spirit, intersex, asexual, and the myriad	Current policies were outdated and had not been revised.	The district has contracted with OSBA to update and revise all board policies: including suicide prevention.	Not in compliance implementing action plan

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	other ways to describe sexual and gender identities) youth, foster youth, youth with disabilities, BIPOC (Black, Indigenous, and People of Color) and tribal communities/members/students as well as historically and currently underserved youth, in kindergarten through grade 12. Includes requirements of the plan.			
Athletics & Interscholastic Activities				
581-022-2210 Anabolic Steroids and Performance Enhancing Substances	Includes training requirements for coaches and athletic directors and utilization of evidence-based programs, e.g. ATLAS and ATHENA.			IN COMPLIANCE
581-022-2215 Safety of School Sports – Concussions	Definitions and policies for athletic participation, including training requirements..			IN COMPLIANCE
<i>**</i> 581-022-2308 Agreements Entered Into with Voluntary Organizations	New rule for 2022-23: Requires adoption of a policy governing participation in a voluntary organization that administers interscholastic activities. Voluntary organization must adopt and implement policies prohibiting discrimination, maintain a complaint process with sanctions, and administer an annual survey.			n/a for 2021-22 School Year

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District Performance & Accountability				
581-022-2250 District Improvement Plan	Definitions and guidelines for requirements for district CIP. Must be done once every 4 years, unless there are substantial changes, which are defined in the Standard. Community input and evaluation of the plan are critical components.	Not a full program established yet	The district is partnering with LBLESD to implement the Aligning for Student Success ODE Project, that includes revisions of district improvement plans.	Not in compliance implementing action plan
581-022-2255 School and District Performance Report Criteria	Definitions and required components of state, district and school report cards, based on identified performance standards. State Superintendent must make available to the public and media by 12/15. School districts must make a copy of the state provided district and school to parent(s) or guardian(s) by 1/15. They may be mailed, sent electronically, or posted on the school or district website.	Not a full program established yet	The district will be sending school district performance reports to all parents and/or guardians in the 22/23 school year.	Not in compliance implementing action plan
581-022-2260- Records and Reports	Requirements for filing state records and reports; maintaining student records and policy for Student Activity Funds.	Their had been a disconnect in the past.	The district has reunited their partnership with LBLESD starting March 2022 and intends to fully cooperate with	Not in compliance implementing action plan

Rule Number & Title <i>*New Rules/Requirements for reporting on the 2021-22 SY are highlighted in yellow</i> <i>**New Rules/Requirements for implementation in the 2022-23 SY are highlighted in blue</i>	Summary <i>* Modifications and waivers for 2021-22 are in italics and highlighted in yellow</i> <i>**Modifications and waivers for 2022-23 are in italics and highlighted in blue</i>	Evidence that supports <u>NOT</u> meeting requirements of the rule (policy, program, systems/process, etc.)	Corrective Action Notes	Compliance Status
			LBLESD to meet this requirement.	
581-022-2265 Report on PE Data	Provide data to ODE annually on PE minutes, physical capacity and facilities. <i>**Note for the 22-23 SY: These collections are suspended from July 1, 2022 through June 30, 2023.</i>			IN COMPLIANCE
581-022-2300 Standardization	Outlines methods of verifying compliance with Division 22 standards.			IN COMPLIANCE
581-022-2305 District Assurances of Compliance with Public School Standards	Requirements for annual Division 22 Standards assurances process: make report to board in September or October, report to ODE by November 15, must use ODE provided form for report to community, post report on district website and provide ODE with link to precise location.			IN COMPLIANCE
581-022-2370 Complaint Procedures	Each district must have a written complaint policy, describing the process.			IN COMPLIANCE
Human Resources/Staffing				
581-022-2335 Daily Class Size	Must maintain class sizes that promote effective practices consistent with expected outcomes.			IN COMPLIANCE

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581-022-2400 Personnel	All teachers, specialists and administrators employed must be licensed	Teachers had let licenses lapse	The district has redesigned processes to ensure all certified staff are licensed in accordance with state law and the district charter.	Not in compliance implementing action plan
581-022-2405 Personnel Policies	District must adopt personnel policies that include: Affirmative action, staff development, Equal Employment Opportunity, Evaluation Procedures, Employee Communication System, release of information in employee file for anyone convicted of a crime under ORS 342.143 Includes requirements for bonded employees.	We did not have a teacher evaluation system in place.	The District is in the process of adopting a state aligned teacher evaluation system.	Not in compliance implementing action plan
581-022-2410 Teacher and Administrator Evaluation and Support	Districts must establish local evaluation systems aligned to the requirements in the Oregon Framework for Teacher and Principal Evaluation and Support .	Not a full program established yet	The district has partnered with COSA and the local certified union to implement an evaluation system that meets state requirements	Not in compliance implementing action plan
581-022-2415 Core Teaching Standards	Core teaching standards must be used to evaluate teachers. In TASC standards defined. <ol style="list-style-type: none"> 1. The Learner and Learning. 2. Content 3. Instructional Practice 4. Professional Responsibility 			IN COMPLIANCE

Rule Number & Title <i>*New Rules/Requirements for reporting on the 2021-22 SY are highlighted in yellow</i> <i>**New Rules/Requirements for implementation in the 2022-23 SY are highlighted in blue</i>	Summary <i>* Modifications and waivers for 2021-22 are in italics and highlighted in yellow</i> <i>**Modifications and waivers for 2022-23 are in italics and highlighted in blue</i>	Evidence that supports <u>NOT</u> meeting requirements of the rule (policy, program, systems/process, etc.)	Corrective Action Notes	Compliance Status
581-022-2420 Educational Leadership - Administrator Standards	Administrators must be evaluated on adopted leadership standards. <ol style="list-style-type: none"> 1. Visionary Leadership 2. Instructional Improvement 3. Effective Management 4. Inclusive Practice 5. Ethical Leadership 6. Socio-political context 	Not a full program established yet	The district is currently redesigning the administrator evaluation system to comply with the ISLLC requirements.	Not in compliance implementing action plan
581-022-2430 Fingerprinting of Subject Individuals in Positions Not Requiring Licensure as Teachers, Administrators, Personnel Specialists, School Nurses	Compliance with OAR 581-021-0510			IN COMPLIANCE
581-022-2440 Teacher Training Related to Dyslexia	School districts must ensure that at least one kindergarten through grade five teacher in each kindergarten through grade five school has received training related to dyslexia. A waiver may be obtained using the process outlined in 581-002-1810.			IN COMPLIANCE

14. Adjourn

15. Key Dates and Calendar Updates:

- October 10 - 14, National School Lunch Week
- October 13, 7:00pm Regular Board Meeting
- October 14, Teacher Work Day
- October 17, OSBA Legislative Road Show
- October 21, In-service/Grading
- October 26, 8:00am Picture Retakes
- October 27, 7:00pm Regular Board Meeting
- October 27, Early Release/Student Conferences
- October 28, Student Conferences
- October 29, Haunted House, 6 - 10
- October 30, Haunted House, 6 - 9
- October 31 Haunted House, 6 - 10
- November 11 - 13, 76th OSBA Annual Convention