



## **PUBLIC IMPROVEMENT PROJECT**

### **INVITATION TO BID**

**Solicitation No: 19-0019**

## **Highland Park Middle School HVAC Upgrades**

ITB Closing (Due Date & Time):  
**May 16, 2019 at 2:00 PM Pacific Time**

Issued by:  
**Beaverton School District 48J**  
**16550 SW Merlo Road**  
**Beaverton, Oregon 97003**  
**April 26, 2019**

**PUBLIC IMPROVEMENT  
INVITATION TO BID**

Solicitation No: ITB 19-0019  
**Summary**

The purpose of this Invitation to Bid (Solicitation) is to obtain competitive Bids from qualified General Contractors (Bidder) interested in the provision of Highland Park Middle School (MS) HVAC Upgrades for the Beaverton School District.

This is a public works project subject to ORS 279C.800 to 279C.870.

**A NON-MANDATORY pre-Bid conference will be held on May 1, 2019 at 2:00 PM at Highland Park Middle School, 7000 SW Wilson Ave. Beaverton, OR 97008.**

Bidders must submit their Bid pursuant to the provisions of this Solicitation to Justin Sweet, Contract Specialist, or designee, at the District Administration Center, Facilities Development Main Portable, 16550 SW Merlo Road, Beaverton Oregon 97003, **PRIOR** to the Closing:

**SOLICITATION CLOSING: May 16, 2019 at 2:00 PM Pacific Time**  
**LATE BIDS WILL NOT BE ACCEPTED**

Timely submitted Bids will be opened in public and read aloud immediately after Closing at the address above.

**Bidders are solely responsible for ensuring that the Beaverton School District receives its Bid.**

Bidders must submit a **First-Tier Subcontractor Disclosure Form** \*EITHER\* with the sealed Bid submission \*OR\* in a separate envelope no later than:

**DISCLOSURE DEADLINE: May 16, 2019 at 4:00 PM Pacific Time**

Prospective Bidders must register with ORPIN – <http://orpin.oregon.gov/> to obtain the Solicitation documents and plan sets.

Bidders must familiarize themselves with the entire Solicitation.

**All questions and comments about this solicitation must be directed ONLY IN WRITING to Justin Sweet, Contract Specialist, by e-mail to: [contracts@beaverton.k12.or.us](mailto:contracts@beaverton.k12.or.us)**

**THE DISTRICT MAY REJECT ANY BID NOT IN COMPLIANCE WITH ALL PRESCRIBED REQUIREMENTS.**

SECTION I - INTRODUCTION  
Solicitation No: ITB 19-0019

**1. INTRODUCTION:**

This Solicitation is issued pursuant to ORS 279A, ORS 279C and the Oregon Attorney General Model Rules Divisions 46 and 49.

**2. DEFINITIONS:**

The term "District" or "Owner" throughout this document means the Beaverton School District. The term "Bidder" means the person or firm that submits a Bid in response to this Solicitation. The term "Bid" or "Offer" means a written response to provide services in response to this Solicitation. The term "Contractor" or "Supplier" means the Bidder awarded a contract as a result of this Solicitation.

**3. SOLICITATION REVIEW:**

Bidders must carefully review the Solicitation documents and are responsible for knowing and understanding all terms and conditions. Unless defects, ambiguities, omissions, or errors are brought to the District's attention by protest pursuant to REQUEST FOR CLARIFICATION OR CHANGE; SOLICITATION PROTESTS (Section III, Paragraph 5), protests or appeals based on such defects, ambiguities, omissions or errors received after issuance of the Notice of Intent to Award may not be favorably considered.

**4. BACKGROUND:**

- a. The Beaverton School District encompasses approximately 57 square miles in northwestern Oregon in Washington County. The District, located in the Portland, Oregon metro area, is the third largest School District in Oregon.
- b. The Beaverton School District has approximately 4,700 employees. The District is responsible for educating approximately 40,870 students in kindergarten through grade 12 at thirty-four (34) Elementary Schools, eight (8) Middle Schools, six (6) High Schools, five (5) Options Schools, and nineteen (19) Options Programs.

**5. SCOPE OF WORK:**

This Solicitation is for HVAC upgrades at Highland Park Middle School, 7000 SW Wilson Ave. Beaverton, OR 97008.

**6. CONTRACT:**

The successful Bidder, selected by the District, will receive an AIA A101 Owner Contractor Agreement with AIA A201 General Conditions. A sample is enclosed herein (see Attachments). The provisions of the sample AIA A101 Owner Contractor Agreement and AIA A201 General Conditions are in addition to the requirements set forth in this Solicitation.

- a. Bidders are advised to thoroughly review and familiarize themselves with the standard contract. Certain contract terms reflect state statute and may not be altered.
- b. The Contractor will be expected to promptly sign a contract including all standard terms and conditions contained in the sample contract.
- c. Personnel substitution – if the contractor must substitute personnel included in the original bid they must obtain written District approval of substituted personnel, prior to substitution.

**7. AMENDMENTS:**

The District may amend a Contract without additional competition pursuant to OAR 137-049-0910.

**8. DISTRICT REPRESENTATIVE:**

The District Representative for the project is Chris Hansen, Project Manager.

SECTION I - INTRODUCTION  
Solicitation No: ITB 19-0019

**9. SOLICITATION SCHEDULE:**

The milestones for the selection process are set forth below. The dates are specific and will be followed to the extent reasonably possible. The purpose of this schedule is for Bidder information only. Required dates for Contract period milestones, submittals and any other activities are provided elsewhere in this Solicitation. The District reserves the right to deviate from this schedule.

<u>Solicitation Milestone</u>	<u>Date</u>
Pre-Bid conference	May 1, 2019 at 2:00 PM
Deadline for questions/substitution requests	May 9, 2019
Closing	May 16, 2019 at 2:00 PM
Notice of Intent to Award (NOI)	On or about 24 hrs after Bid Closing

**10. CONTACT DURING SOLICITATION:**

Questions must be submitted in writing via email to [contracts@beaverton.k12.or.us](mailto:contracts@beaverton.k12.or.us) as indicated on the Summary page of this Solicitation. No other contact regarding this solicitation during the solicitation process is permitted. Unauthorized contact regarding this solicitation may subject the offender's Bid to rejection.

**11.** Additional information regarding this solicitation and certain forms for download are available on the ORPIN website: [www.orpin.oregon.gov](http://www.orpin.oregon.gov)



SECTION II – STATEMENT OF WORK  
Solicitation No: ITB 19-0019

**1. PURPOSE AND INTRODUCTION:**

This Solicitation is for the purpose of retaining a contractor to furnish, install, manage and coordinate all work shown in attached documents on behalf of the Beaverton School District. This project will be completed in a single phase.

The project is described in summary terms below and in attached documents, proceeded by the District's requirements of the Bidders to meet with operational attributes, contractor's experience, and contract conditions.

**2. PROJECT DESCRIPTION:**

Highland Park Middle School is a 116,892 SF one and two story building. The main building was constructed in 1965. The building has tilt-up concrete exterior walls; exposed aggregate finish; laminated beams, plywood roof built-up graveled.

The schools current heating and ventilation consists of a central heating plant with two hot water boilers. Rooftop chilled water system: air cooled chiller. Classrooms heated by hot water coils in unit ventilators. Air handlers with hot water and chilled water coils serve the library (muti-zone), and cafeteria. Heat only air handlers serve the gym, shops, and other large areas. Office conditioned by VAV system with hot-water reheat, rooftop air handlers have natural gas fired burners and DX cooling. Start, stop and scheduling for all systems by Johnson DDC "front end."

**3. OPERATIONAL ATTRIBUTES:**

The District requires the majority of the project to be completed over the duration of the 2019 Summer Break. See list of project milestones below for further information.

The main office area will remain in operation during the construction period. The contractor shall coordinate with the District to effectively minimize disruptions to these spaces.

**4. GENERAL REQUIREMENTS:**

- a. The Contractor shall provide a complete project and coordinate with the District, consultants and contractors hired by the District, and all applicable agencies having authority.
- b. The Contractor shall provide all labor, materials, plant, equipment, transportation and other facilities and services necessary and/or required to execute all the work described in this document and all attachments.
- c. The District has implemented the eBuilder Project Management software platform for coordination of efforts, approvals, and expedited communication. All prime project team members will be required to utilize the program. Consultant/Contractor shall be provided a seat (license) and a minimum of four (4) hours training.
- d. The Contactor shall perform District required background checks and provide badges for all personnel that will be on site.
- e. Contractors and vendors who perform work on the SB1149 Energy Projects listed in Table 1 below must separate and break out their invoices per EEM/ SID ID number so that Beaverton School District may tabulate full costs for each individual energy project within the entire renovation effort. EEM = Energy Efficiency Measure.
- f. Contractor must move and or protect furniture in construction areas
- g. Contractor must coordinate with district abatement/demolition contractor.

SECTION II – STATEMENT OF WORK  
Solicitation No: ITB 19-0019

<i>School</i>	<i>Project</i>		<i>EEM/ SID ID Number</i>
Highland Park	Refurbish five primary air handlers	Air handlers are located in the kitchen, cafeteria, faculty lounge, music room, and small break room	EEM #1

**5. SPECIFIC REQUIREMENTS:**

- a. Abatement/Demo
  - i. Abatement/Demo by Contractor
  - ii. Abatement specifications and drawings included in bid documents. These documents have not been adjusted from original bid solicitation. Please refer to abatement docs for current scope.
- b. HVAC:
  - i. Add chiller system.
    - 1. Chiller will be purchased by the District and turned over to contractor upon delivery. Contractor will assume ownership of chiller. Air Reps contract will be included in bid docs.
  - ii. Existing HVAC units for the kitchen, cafeteria, library and music area mounted on the mechanical mezzanine will be kept. All wear items (bearings, sheaves, motors, belts) will be replaced. The fan wheel and cabinet interior will be cleaned and any loose cabinet insulation removed and replaced with new insulation and perforated sheet metal cover panel. The existing heating and chilled water coils will be cleaned and reused if they pass a 20 PSI pressure test. New chilled water coils will be installed where none exist. Heating coil piping will be modified for the new variable flow strategy used with the new boiler system. This will result in the removal of several coil specific pumps. All new service valves, strainers, balance valves and control valves will be installed. No coil hoses will be allowed. New controls will be field installed. The return air and outside air ductwork will be cleaned and system balanced. The existing HVAC unit that serves the kitchen will continue to act as both space conditioning and hood make-up air. New controls will better control this operation. The dishwasher exhaust fan and duct will be replaced.
- c. Controls:
  - i. Johnson Controls (JCI) installed by a District approved Johnson Controls installer. Work will consist of integration of the new chiller, and revised sequences to operate the chilled water coil at the air handlers. There will be control of change over valves in the boiler room too. The existing JCI controls stay “as is” otherwise. The JCI system will be the BACnet version.

**6. PROJECT SCHEDULE:**

The project milestones are set forth below. The dates are approximate but will be followed to the extent reasonably possible. The purpose of this schedule is for information only.

<u>Project Milestone</u>	<u>Completion Date</u>
Contract Award	On or about May 24, 2019
Construction Start	June 17, 2019
Substantial Completion	September 27, 2019
Final Completion	October 25, 2019

**7. BONDS AND INSURANCE:**

The Contractor awarded this solicitation must, within Five (5) calendar days after receipt of the Contract for signature:

SECTION II – STATEMENT OF WORK  
Solicitation No: ITB 19-0019

- a. Provide the required Performance Bond and Payment Bond;
- b. Provide proof that the Statutory Public Works Bond has been filed with the CCB;
- c. Provide Insurance Certificate(s) (see enclosed sample contract for requirements) and any guarantees and/or other required item(s).
- d. Sign the Contract issued by the District Purchasing Department.
- e. If these items are not received as specified then the Contract may not be executed, a Bid bond claim may be filed, and the Contract may be awarded to the next lowest Bidder.

**8. NOTICE TO PROCEED:**

- a. The Contractor must not begin work until a Notice to Proceed is issued by the District Representative.
- b. The District reserves the right to cancel the Contract at no penalty if it is in the best interest of the public to do so, if:
  - i. A protest was received that overturns the award of this Contract, or
  - ii. Funding for the project is not available.

**9. ADDITIONAL REQUIREMENTS:**

- a. The District has implemented the e-Builder Project Management software platform for coordination of efforts, approvals, and expedited communication. All prime project team members will be required to utilize the program. Each Contractor will be provided a seat (license) and a minimum of four (4) hours training.
- b. All persons involved in the project who will have a physical presence on site at any time during the course of the project will need to clear a background check. The basic criteria of clearance and refusal offenses will be provided by the District Project Representative. Contractors and sub-contractors must provide a report of who has cleared the background check by an approved agency.
- c. No liquidated damages for this project.

**10. BUSINESS EQUITY:**

The Bidder understands that the District maintains a goal of engaging minority, women, emerging, service-disabled veteran and socially or economically disadvantaged businesses (MWSDVE) as service providers in delivering services necessary to implement our bond program. The District aspires to a goal of ten (10) percent MWSDVE content, by contract value, in completing our capital bond work, and the Contractor shall expend reasonable efforts to reach this content in the total value of their contracts with the District.

**11. NO WAIVER OF CONDITIONS:**

Failure of the Owner to insist on strict performance will not constitute a waiver of any of the provisions of this Contract or waiver of any other default of the Contractor.

SECTION III – INSTRUCTIONS TO BIDDERS:  
PUBLIC IMPROVEMENT PROCUREMENT RULES  
Solicitation No: ITB 19-0019

**1. FORMAL SELECTION PROCEDURE:**

The District will solicit Bids for Public Improvement Contracts by Invitation to Bid ("ITB"), except as otherwise allowed or required pursuant to ORS 279C.335 and 279A.030.

**2. ELIGIBILITY TO BID.** Pursuant to OAR 137-049-0230:

- a. **Construction Contracts.** The District will not consider a Person's Offer to do Work as a Contractor, as defined in ORS 701.005(2), unless the Person has a current, valid certificate of registration issued by the Construction Contractor's Board at the time the Offer is made.
- b. **Landscape Contracts.** The District will not consider a Person's Offer to do Work as a landscape Contractor as defined in ORS 671.520(2), unless the Person has a current, valid landscape Contractor's license issued pursuant to ORS 671.560 by the State Landscape Contractors Board at the time the Offer is made.
- c. **Non-complying Entities.** The District will deem a Bid received from a Person that fails to comply with this rule nonresponsive and will reject the Bid as stated in ORS 279C.365(1)(k), unless contrary to federal law or subject to different timing requirements set by federal funding agencies.
- d. **Asbestos Abatement Work.** The Contractor or a subcontractor under the Contract must be licensed under ORS 468A.720 for work regarding asbestos abatement projects.

**3. PRE-BID CONFERENCE.** Pursuant to OAR 137-049-0240:

- a. **Purpose.** The District may hold pre-Bid conferences with prospective Bidders prior to Closing, to explain the procurement requirements, obtain information, and/or to conduct site inspections.
- b. **Required Attendance.** The District may require attendance at the pre-Bid conference as a condition for submission of a Bid. A mandatory attendance requirement is considered to have been met if, at any time during the mandatory meeting, a representative of an offering firm is present.
- c. **Notice.** The Summary page of this solicitation indicates the pre-Bid conference scheduled date and time, and whether the pre-Bid conference is mandatory or non-mandatory.
- d. **Statements Not Binding.** Statements made by the District's representatives at the pre-Bid conference do not change the Solicitation unless the District confirms such statements by Written Addendum.

**4. ADDENDA.** Pursuant to OAR 137-049-0250:

- a. **Issuance; Receipt.** The District may change this Solicitation only by Written Addenda. A Bidder must provide written acknowledgement of receipt of all issued Addenda with their Bid on the Bidder Certification.
- b. **Notice and Distribution.** The District will publish notice of all Addenda on the ORPIN (Oregon Procurement Information Network) Website. Addenda may be downloaded from the ORPIN website. It is the Bidders' responsibility to inquire about Addenda. Bidders should frequently check the ORPIN website until Closing about any Addenda issued, i.e., at least once weekly until the week of Closing and at least once daily the week of the Closing.
- c. **Timelines; Extensions.** The District will issue Addenda within a reasonable time to allow prospective Bidders to consider the Addenda in preparing their Bid. The District may extend the Closing if the District determines prospective Bidders need additional time to review and respond to Addenda. Except to the extent required by public interest, the District will not issue Addenda less than 72 hours before the Closing unless the Addendum also extends the Closing.
- d. **Request for Change or Protest.** Unless a different deadline is set forth in the Addendum, a Bidder may submit a Written request for change or protest to the Addendum, as provided in OAR 137-049-0260, by the close of the District's next business day after issuance of the Addendum, or up to the last day allowed to submit a request for change or protest under OAR 137-049-0260, whichever date is later. The District will consider only a Bidder's request for change or protest to the Addendum; the District will not

SECTION III – INSTRUCTIONS TO BIDDERS:  
PUBLIC IMPROVEMENT PROCUREMENT RULES  
Solicitation No: ITB 19-0019

consider a request for change or protest to matters not added or modified by the Addendum, unless the Bidder submits the request for change or protest before the deadline for the District's receipt of request for change or protests as set forth in OAR 137-049-0260(2) and (3).

**5. REQUEST FOR CLARIFICATION OR CHANGE; SOLICITATION PROTESTS.** Pursuant to OAR 137-049-0260:

- a. **Clarification.** Prior to the deadline for submitting a written request for change or protest, a Bidder may request that the District clarify any provision of the Solicitation. The District's clarification to a Bidder, whether orally or in Writing, does not change the Solicitation and is not binding on the District unless the District amends the Solicitation by Addendum.
- b. **Request for Change.**
  - i. **Delivery.** A Bidder may request in writing a change to the Specifications or Contract terms and conditions. A Bidder must deliver the Written request for change to the District by NOON ten (10) Days prior to Closing to the address listed on the Summary page. (Bidder is responsible for ensuring receipt by the District.)
  - ii. **Content of Request for Written Change:**
    - A. A Bidder's Written request for change must include a statement of the requested change(s) to the Contract terms and conditions, including any Specifications, together with the reason for the requested change.
    - B. A Bidder must mark its request for change as follows:
      - I. "Contract Provision Request for Change"; and
      - II. Solicitation number.
- c. **Protest.**
  - i. **Delivery.** A Bidder may protest Specifications or Contract terms and conditions. A Bidder must deliver a written protest on those matters to the District Construction Purchasing Manager by NOON ten (10) Days prior to Closing;
  - ii. **Content of Protest.**
    - A. A Bidder's Written protest must include:
      - (i) A detailed statement of the legal and factual grounds for the protest;
      - (ii) A description of the resulting prejudice to the Bidder; and
      - (iii) A statement of the desired changes to the Contract terms and conditions, including any Specifications.
    - B. A Bidder must mark its protest as follows:
      - (i) "Contract Provision Protest"; and
      - (ii) Solicitation number.
- c. **District Response.** The District is not required to consider a Bidder's request for change or protest after the deadline established for submitting such request or protest. The District will provide notice to the applicable Person if it entirely rejects a protest. If the District agrees with the Person's request or protest, in whole or in part, the District will either issue an Addendum reflecting its determination under OAR 137-49-0260 or cancel the Solicitation under OAR 137-49-0270.
- d. **Extension of Closing.** If the District receives a written request for change or protest from a Bidder in accordance with this Rule, the District may extend Closing if the District determines an extension is necessary to consider the request or protest and issue an Addendum, if any, to the Solicitation.

**6. CANCELLATION OF SOLICITATION.** Pursuant to OAR 137-049-0270:

**Cancellation in the Public Interest.** The District may cancel a Solicitation for good cause if the District finds that cancellation is in the public interest. The District's reasons for cancellation will be made part of the Solicitation file.

SECTION III – INSTRUCTIONS TO BIDDERS:  
PUBLIC IMPROVEMENT PROCUREMENT RULES  
Solicitation No: ITB 19-0019

**7. BID SUBMISSIONS.** Pursuant to OAR 137-049-0280:

- a. **Offer and Acceptance.** The submitted Bid is the Bidder's offer to enter into a Contract. The Offer is always a "Firm Offer," i.e., the Bid must be held open by the Bidder for the District's acceptance for sixty (60) days. The District may elect to accept the Bid at any time during the specified period, and the District's Award of the Contract to a Bidder constitutes acceptance of the Offer and binds the Bidder to the Contract.
- b. **Responsive Bid.** The District may award a Contract only to a Responsible Bidder with a Responsive Bid.
- c. **Contingent Bids.** A Bidder must not make a Bid contingent upon the District's acceptance of any terms or conditions (including Specifications) other than those contained in this Solicitation.
- d. **Bidders Acknowledgement.** By signing and submitting a Bid, the Bidder acknowledges they have read and understand the terms and conditions contained in the Solicitation and that they accept and agree to be bound by the terms and conditions of the Solicitation.
- e. **Instructions.** A Bidder must submit and sign their Bid. A Bidder must initial any corrections or erasures to their Bid.
- f. **Forms.** Bidders must submit their Bid on the form(s) provided.
- g. **Documents.** Bidders must provide the District with all documents and descriptive literature requested.
- h. **Facsimile or Electronic Submissions.** The District will not accept facsimile or electronic Bids.
- i. **Product Samples and Descriptive Literature.** The District may require product samples or descriptive literature if it is necessary or desirable to evaluate the quality, features or characteristics of the offered items. The District will dispose of product samples or return or make available for return product samples to the Bidder.
- j. **Identification of Bids.**
  - i. To ensure proper identification and handling, Bids must be submitted in a **sealed** envelope appropriately marked with the Bidder's name and address **and the Solicitation number in large block numbers.**
  - ii. The District is not responsible for Bids submitted in any manner, format or to any delivery point other than as required in the Solicitation.
- k. **Receipt of Bids.** Bidders are responsible for ensuring that the District receives their Bid at the required delivery point prior to the closing due date and time, regardless of the method used to submit or transmit the Bid. Bids must be mailed, or hand delivered and received prior to the closing due date and time to the person indicated on the Summary page of this Solicitation, or designee, at the Beaverton School District Administration Center, Facilities Development Main Portable, 16550 SW Merlo Road, Beaverton, OR 97003.
- l. Failure to submit Bids in accordance with the provisions of this Section will be grounds to declare the Bid as nonresponsive.
- m. **Certification.** Bidders must (on the Bidder Certification enclosed):
  - i. Identify whether the Bidder is or is not a "resident Bidder," as defined in ORS 279A.120(1);
  - ii. Indicate that the Bidder will comply with Prevailing Wage Laws ORS 279C.800 through ORS 279C.870 or 40 U.S.C. 3141 et seq;
  - iii. Provide certification of nondiscrimination in obtaining any required subcontractors in accordance with ORS 279A.110(4); and
  - iv. Provide written acknowledgment of receipt of all Addenda.

**8. BID SECURITY.** Pursuant to OAR 137-049-0290:

- a. **Security Amount.** The District requires Bid security of 5% of the Bidder's Bid, consisting of the base Bid together with all additive alternates. The Bidder must forfeit Bid security after Award if the Bidder fails to execute the Contract and promptly return it with any required Performance Bond and Payment Bond and with any required proof of insurance (see enclosed sample contract for amount requirements).

SECTION III – INSTRUCTIONS TO BIDDERS:  
PUBLIC IMPROVEMENT PROCUREMENT RULES  
Solicitation No: ITB 19-0019

- b. **Form of Bid Security.** The District may accept only the following forms of Bid security:
  - i. A surety bond from a surety company authorized to do business in the State of Oregon;
  - ii. An irrevocable letter of credit issued by an insured institution as defined in ORS 706.008; or
  - iii. A cashier's check or Bidders certified check.
- c. **Return of Security.** The District will return or release the Bid security of all unsuccessful Bidders after a Contract has been fully executed and all required bonds and insurance have been provided, or after all Bids have been rejected.

**9. PRE-CLOSING MODIFICATION OR WITHDRAWAL.** Pursuant to OAR 137-049-0320:

- a. **Modifications.** A Bidder may modify their Bid in writing prior to the Closing. A Bidder must prepare and submit any modification to their Bid to the District in accordance with OAR 137-49-0280. Any modification must include the Bidder's statement that the modification amends and supersedes the prior Bid. The Bidder must hand deliver or mail its modification and mark the envelope as follows:
  - i. "Bid Modification"; and
  - ii. Solicitation Number.
- b. **Withdrawals.**
  - i. A Bidder may withdraw its Bid by Written notice submitted on the Bidder's letterhead, signed by an authorized representative of the Bidder, hand delivered or mailed, and received by the District prior to the Closing. The Bidder or authorized representative of the Bidder may also withdraw its Bid in Person prior to the Closing, upon presentation of appropriate identification and satisfactory evidence of authority;
  - ii. The District may release an unopened, withdrawn Bid to the Bidder or its authorized representative, after voiding any date and time stamp mark;
  - iii. The Bidder must mark the Written request to withdraw a Bid as follows:
    - A. Bid Withdrawal; and
    - B. Solicitation Number.
- c. **Documentation.** The District will include all documents relating to the modification or withdrawal of Bids in the Solicitation file.

**10. RECEIPT, OPENING, AND RECORDING OF BIDS; CONFIDENTIALITY OF BIDS.**

Pursuant to OAR 137-049-0330:

- a. **Receipt.** The Bidder is responsible for ensuring that the District receives its Bid at the required delivery point prior to the Closing, regardless of the method used to submit or transmit the Bid. The District will electronically or mechanically time-stamp or hand-mark each Bid and any modification upon receipt. The Districts' official time clock is located behind the reception desk in the Facilities Development Main Portable of the District Administration Center at 16550 SW Merlo Road. In the event of a discrepancy between any clock and the official time clock, the official time clock stamped time prevails. In the event a Bid is too large to be time stamped a separate paper will be time stamped and attached to the Bid or marked by hand with the date and time it was received.
- b. **Opening and Recording.** The District will publicly open Bids including any modifications made to the Bid pursuant to OAR 137-49-0320. In the case of Invitations to Bid, to the extent practicable, the District will read aloud the name of each Bidder, the Bid price(s), and such other information, as the District considers appropriate.
- c. **Availability.** After Opening, the District will make Bids available for public inspection. The District may withhold from disclosure those portions of a Bid that the Bidder designates as trade secrets or as confidential proprietary data in accordance with applicable law. See ORS 192.501(2); ORS 646.461 to 646.475. To the extent the District determines such designation is not in accordance with applicable law, the District will make those portions available for public inspection. The Bidder must separate

SECTION III – INSTRUCTIONS TO BIDDERS:  
PUBLIC IMPROVEMENT PROCUREMENT RULES  
Solicitation No: ITB 19-0019

information designated as confidential from other non-confidential information at the time of submitting its Bid. Prices, makes, model or catalog numbers of items offered, scheduled delivery dates, and terms of payment are not confidential, and will be publicly available regardless of a Bidder's designation to the contrary.

**11. LATE BIDS, WITHDRAWALS AND MODIFICATIONS.** Pursuant to OAR 137-049-0340:

Any Bid received after the Closing date and time is late. A Bidder's request for withdrawal or modification of a Bid received after Closing is late. The District will not consider late Bids, withdrawals or modifications except as permitted in OAR 137-049-0350 or OAR 137-049-0390.

**12. MISTAKES.** Pursuant to OAR 137-049-0350:

- a. **Generally.** To protect the integrity of the competitive Procurement process and to assure fair treatment of Bidders, the District will carefully consider whether to permit waiver, correction or withdrawal of Bids for certain mistakes.
- b. **District Treatment of Mistakes.** The District will not allow a Bidder to correct or withdraw an Offer for an error in judgment. If the District discovers certain mistakes in a Bid after Opening, but before Award of the Contract, the District may take the following action:
  - i. The District may waive, or permit a Bidder to correct, a minor informality. A minor informality is a matter of form rather than substance that is evident on the face of the Bid, or an insignificant mistake that can be waived or corrected without prejudice to other Bidders. Examples of minor informalities include a Bidder's failure to:
    - A. Return the correct number of signed Bids or the correct number of other documents required by the Solicitation;
    - B. Sign the Bid in the designated block, provided a Signature appears elsewhere in the Bid, evidencing an intent to be bound; and
    - C. Acknowledge receipt of an Addendum to the Solicitation, provided that it is clear on the face of the Bid that the Bidder received the Addendum and intended to be bound by its terms; or the Addendum involved did not affect price, quality or delivery.
  - ii. The District may correct a clerical error if the error is evident on the face of the Bid or other documents submitted with the Bid, and the Bidder confirms the District's correction in Writing. A clerical error is a Bidder's error in transcribing its Bid. Examples include typographical mistakes, errors in extending unit prices, transposition errors, arithmetical errors, instances in which the intended correct unit or amount is evident by simple arithmetic calculations (for example a missing unit price may be established by dividing the total price for the units by the quantity of units for that item or a missing, or incorrect total price for an item may be established by multiplying the unit price by the quantity when those figures are available in the Bid). In the event of a discrepancy, unit prices will prevail over extended prices.
  - iii. The District may permit a Bidder to withdraw an Offer based on one or more clerical errors in the Bid only if the Bidder shows with objective proof and by clear and convincing evidence:
    - A. The nature of the error;
    - B. That the error is not a minor informality under this subsection or an error in judgment;
    - C. That the error cannot be corrected or waived under subsection 12.b.ii above;
    - D. That the Bidder acted in good faith in submitting a Bid that contained the claimed error and in claiming that the alleged error in the Bid exists;
    - E. That the Bidder acted without gross negligence in submitting a Bid that contained a claimed error;
    - F. That the Bidder will suffer substantial detriment if the District does not grant the Bidder permission to withdraw the Offer;



SECTION III – INSTRUCTIONS TO BIDDERS:  
PUBLIC IMPROVEMENT PROCUREMENT RULES  
Solicitation No: ITB 19-0019

- G. That the District's or the public's status has not changed so significantly that relief from the forfeiture will work a substantial hardship on the District or the public it represents; and
- H. That the Bidder promptly gave notice of the claimed error to the District.
- iv. The criteria in subsection 12.b.iii above will determine whether the District will permit a Bidder to withdraw its Bid after Closing. These criteria also will apply to the question of whether the District will permit a Bidder to withdraw its Bid without forfeiture of its Bid bond (or other Bid security), or without liability to the District based on the difference between the amount of the Bidder's Bid and the amount of the Contract actually awarded by the District, whether by Award to the next lowest Responsive and Responsible Bidder, or by resort to a new solicitation.
- c. **Rejection for Mistakes.** The District will reject any Bid in which a mistake is evident on the face of the Bid and the intended correct Bid is not evident or cannot be substantiated from documents submitted with the Bid.
- d. **Identification of Mistakes after Award.** The procedures and criteria set forth above are Bidder's only opportunity to correct mistakes or withdraw Bids because of a mistake. Following Award, a Bidder is bound by its Bid, and may withdraw its Bid or rescind a Contract entered into pursuant to OAR 137 Division 49 only to the extent permitted by applicable law.

**13. FIRST-TIER SUBCONTRACTORS; DISCLOSURE AND SUBSTITUTION.** Pursuant to OAR 137-049-0360:

- a. **Required Disclosure.** Within two working hours after the Bid Closing, Bidders must submit the First-Tier Subcontractor Disclosure Form identifying any first-tier subcontractors (those Entities that would be contracting directly with the prime contractor) that will be furnishing labor or labor and materials on the Contract, if Awarded, whose subcontract value would be equal to or greater than:
  - i. Five percent of the total Contract Price, but at least \$15,000; or
  - ii. \$350,000, regardless of the percentage of the total Contract Price.
- b. **Bid Closing, Disclosure Deadline and Bid Opening.** For each ITB to which this rule applies, the District will:
  - i. Set the Bid Closing on a Tuesday, Wednesday or Thursday, and at a time between 2 p.m. and 5 p.m.;
  - ii. Open Bids publicly immediately after the Bid Closing; and
  - iii. Consider for Contract Award only those Bids for which the required disclosure has been submitted by the announced deadline on the form prescribed by the District.
- c. **Submission.** A Bidder must submit the disclosure form required by this rule either in its Bid submission, or within two working hours after Bid Closing in the manner specified by this Solicitation.
- d. **Responsiveness.** Compliance with the disclosure and submittal requirements of ORS 279C.370 and OAR 137-049-0360 is a matter of Responsiveness. Bids that are submitted by Bid Closing, but for which the disclosure submittal has not been made by the specified deadline, are not Responsive and will not be considered for Contract Award.
- e. **District Role.** The District will obtain, and make available for public inspection, the disclosure forms required by ORS 279C.370 and OAR 137-049-0360. The District will also provide copies of disclosure forms to the Bureau of Labor and Industries as required by ORS 279C.835. The District is not required to determine the accuracy or completeness of the information provided on disclosure forms.
- f. **Substitution.** Substitution of affected first-tier subcontractors must be made only in accordance with ORS 279C.585. The District will accept Written submissions filed under that statute as public records. Aside from issues involving inadvertent clerical error under ORS 279C.585, the District does not have a statutory role or duty to review, approve or resolve disputes concerning such substitutions. See ORS 279C.590 regarding complaints to the Construction Contractors Board on improper substitution.

SECTION III – INSTRUCTIONS TO BIDDERS:  
PUBLIC IMPROVEMENT PROCUREMENT RULES  
Solicitation No: ITB 19-0019

**14. BID EVALUATION CRITERIA.** Pursuant to OAR 137-049-0380:

- a. **General.** A Public Improvement Contract, if awarded, will be awarded to the Responsible Bidder submitting the lowest Responsive Bid.
- b. **Bid Evaluation Criteria.** Invitations to Bid may solicit lump-sum Bids, unit-price Bids, or a combination of the two.
  - i. **Lump Sum.** If the ITB requires a lump-sum Bid, without additive or deductive alternates, or if the District elects not to award additive or deductive alternates, Bids will be compared on the basis of lump-sum prices, or lump-sum base Bid prices, as applicable. If the ITB calls for a lump-sum base Bid, plus additive or deductive alternates, the total Bid price will be calculated by adding to or deducting from the base Bid those alternates selected by the District, for the purpose of comparing Bids.
  - ii. **Unit Price.** If the Bid includes unit pricing for estimated quantities, the total Bid price will be calculated by multiplying the estimated quantities by the unit prices submitted by the Bidder, and adjusting for any additive or deductive alternates selected by the District, for the purpose of comparing Bids. The District will specify within the Solicitation the estimated quantity of the Procurement to be used for determination of the low Bidder. In the event of mathematical discrepancies between unit price and any extended price calculations submitted by the Bidder, the unit price will govern. See OAR 137-049-0350(2)(b).
- c. The District may reject any Bid not in compliance with all prescribed Public Contracting procedures and requirements, and may reject for good cause all Bids upon the District's finding that it is in the public interest to do so.

**15. BID EVALUATION AND AWARD; DETERMINATION OF RESPONSIBILITY.** Pursuant to OAR 137-049-0390:

- a. **General.** If Awarded, the District will Award the Contract to the Responsible Bidder submitting the lowest, Responsive Bid provided that such Person is not listed by the Construction Contractors Board as disqualified to hold a Public Improvement Contract. See ORS 279C.375 (3)(a). The District may award by item, groups of items or the entire Bid provided such Award is consistent with the Solicitation and in the public interest.
- b. **Determination of Responsibility.** Bidders are required to demonstrate their ability to perform satisfactorily under a Contract. Before Awarding a Contract, the District must have information that indicates that the Bidder meets the standards of responsibility set forth in ORS 279.375(3)(b). To be a Responsible Bidder, the District will determine that the Bidder:
  - i. Has available the appropriate financial, material, equipment, facility and Personnel resources and expertise, or ability to obtain the resources and expertise, necessary to meet all contractual responsibilities;
  - ii. Has completed previous contracts of a similar nature with a satisfactory record of performance. A satisfactory record of performance means that, to the extent the costs associated with and time available to perform a previous contract were within the Bidder's control, the Bidder stayed within the time and budget allotted for the procurement and otherwise performed the contract in a satisfactory manner. The District should carefully scrutinize a Bidder's record of contract performance if the Bidder is or recently has been materially deficient in contract performance. In reviewing the Bidders performance, the District should determine whether the Bidders deficient performance was expressly excused under the terms of Contract, or whether the Bidder took appropriate corrective action. The District may review the Bidders performance on both private and Public Contracts in determining the Bidders record of contract performance.
  - iii. Has a satisfactory record of integrity. A Bidder may lack integrity if the District determines the Bidder demonstrates a lack of business ethics such as violation of state environmental laws or false certifications made to the District. The District may find a Bidder not Responsible based on the lack

SECTION III – INSTRUCTIONS TO BIDDERS:  
PUBLIC IMPROVEMENT PROCUREMENT RULES  
Solicitation No: ITB 19-0019

of integrity of any Person having influence or control over the Bidder (such as a key employee of the Bidder that has the authority to significantly influence the Bidders performance of the Contract or a parent company, predecessor or successor Person). The standards for Conduct Disqualification under OAR 137-49-0370 may be used to determine Bidder's integrity. The District may find a Bidder non-responsible based on previous convictions of offenses related to obtaining or attempting to obtain a contract or subcontract or in connection with the Bidder's performance of a contract or subcontract;

- iv. Is qualified legally to contract with the District; and
- v. Has supplied all necessary information in connection with the inquiry concerning responsibility. If the Bidder fails to promptly supply information requested by the District concerning responsibility, the District will base the determination of responsibility on any available information, or may find the Bidder not Responsible.
- c. **District Evaluation.** The District will evaluate a Bid only as set forth in the Solicitation and in accordance with applicable law. The District will not evaluate a Bid using any other requirement or criterion.
- d. **Bidder Submissions.**
  - i. The District may require a Bidder to submit Product Samples, Descriptive Literature, technical data, or other material and may also require any of the following prior to award:
    - A. Demonstration, inspection or testing of a product prior to award for characteristics such as compatibility, quality or workmanship;
    - B. Examination of such elements as appearance or finish; or
    - C. Other examinations to determine whether the product conforms to Specifications.
  - ii. The District will evaluate product acceptability only in accordance with the criteria disclosed in the Solicitation to determine that a product is acceptable. The District will reject a Bid providing any product that does not meet the Solicitation requirements. The District's rejection of a Bid because it offers non-conforming Work or materials is not Disqualification and is not appealable under ORS 279C.445.
- e. **Evaluation of Bids.** The District will use only objective criteria to evaluate Bids as set forth in the Solicitation. The District will evaluate Bids to determine which Responsible Bidder submitted the lowest Responsive Bid.
  - i. **Nonresident Bidders.** In determining the lowest Responsive Bid, the District will, in accordance with OAR 137-046-0310, add a percentage increase to the Bid of a nonresident Bidder equal to the percentage, if any, of the preference given to that Bidder in the state in which the Bidder resides.
  - ii. **Clarifications.** In evaluating Bids, the District may seek information from a Bidder only to clarify the Bidder's Bid. Such clarification must not vary, contradict or supplement the Bid. A Bidder must submit Written and Signed clarifications and such clarifications will become part of the Bidder's Bid.
  - iii. **Negotiation Prohibited.** The District will not negotiate scope of Work or other terms or conditions under an Invitation to Bid process prior to award.

**16. NOTICE OF INTENT TO AWARD.** Pursuant to 137-049-0395:

- a. **Notice.** At least seven (7) days before the Award of a Public Improvement Contract, the District will issue a Notice of the District's intent to Award the Contract.
- b. **Form and Manner of Posting.** The form and manner of posting notice will conform to customary practices within the District's procurement system and may be made electronically.
- c. **Finalizing Award.** The District's Award will not be final until the later of the following:
  - i. Seven (7) Days after the date of the notice, unless the Solicitation provided a different period for protest; or
  - ii. The District provides a written response to all timely-filed protests that denies the protest and affirms the Award.

SECTION III – INSTRUCTIONS TO BIDDERS:  
PUBLIC IMPROVEMENT PROCUREMENT RULES  
Solicitation No: ITB 19-0019

- d. **Prior Notice Impractical.** Posting of notice of intent to award will not be required when the District determines that it is impractical due to unusual time constraints in making prompt Award for its immediate procurement needs, documents the Contract file as to the reasons for that determination, and posts notice of that action as soon as reasonably practical.

**17. DOCUMENTATION OF AWARD; AVAILABILITY OF AWARD DECISIONS.** Pursuant to OAR 137-049-0400:

- a. **Basis of Award.** After Award, the District will make a record showing the basis for determining the successful Bidder part of the District's Solicitation file.
- b. **Contract Document.** The District will deliver a fully executed copy of the final Contract to the successful Bidder.
- c. **Bid Tabulations and Award Summaries.** Upon request of any Person the District will provide tabulations of Awarded Bids.
- d. **Availability of Solicitation Files.** The District will make completed Solicitation files available for public review at the District.

**18. NEGOTIATION WITH BIDDERS PROHIBITED.** Pursuant to OAR 137-049-0420:

Except as permitted by ORS 279C.340 and OAR 137-49-0430 when all Bids exceed the cost estimate, the District will not negotiate with any Bidder prior to Contract Award. After Award of the Contract, the District and Contractor may modify the resulting Contract only by change order or Amendment to the Contract in accordance with OAR 137-49-0910.

**19. NEGOTIATION WHEN BIDS EXCEED COST ESTIMATE.** Pursuant to OAR 137-049-0430:

- a. **Generally.** In accordance with ORS 279C.340, if all Responsive Bids from Responsible Bidders on a competitively Bid Project exceed the District's Cost Estimate, prior to Contract Award the District may negotiate Value Engineering and Other Options with the Responsible Bidder submitting the lowest, Responsive Bid in an attempt to bring the Project within the District's Cost Estimate.
- b. **Rejection of Bids.** In determining whether all Responsive Bids from Responsible Bidders exceed the Cost Estimate, only those Bids that have been formally rejected, or Bids from Bidders who have been formally disqualified by the District, will be excluded from consideration.
- c. **Scope of Negotiations.** The District will not proceed with Contract Award if the scope of the Project is significantly changed from the original Bid. The scope is considered to have been significantly changed if the pool of competition would likely have been affected by the change.
- d. **Discontinuing Negotiations.** The District may discontinue negotiations at any time and will do so if it appears to the District that the apparent low Bidder is not negotiating in good faith or fails to share cost and pricing information upon request. Failure to rebid any portion of the project, or to obtain subcontractor pricing information upon request, will be considered a lack of good faith.
- e. **Limitation.** Negotiations may be undertaken only with the lowest Responsive, Responsible Bidder pursuant to ORS 279C.340. That statute does not provide any additional authority to further negotiate with Bidders next in line for Contract Award.

**20. REJECTION OF BIDS.** Pursuant to OAR 137-049-0440:

- a. **Rejection of a Bid.**
  - i. The District may reject any Bid upon finding that to accept the Bid may impair the integrity of the Procurement process or that rejecting the Bid is in the public interest.
  - ii. The District will reject a Bid upon the District's finding that the Bid:
    - A. Is contingent on the District's acceptance of terms and conditions (including Specifications) that differ from the Solicitation;
    - B. Takes exception to terms and conditions (including Specifications);

SECTION III – INSTRUCTIONS TO BIDDERS:  
PUBLIC IMPROVEMENT PROCUREMENT RULES  
Solicitation No: ITB 19-0019

- C. Attempts to prevent public disclosure of matters in contravention of the terms and conditions of the Solicitation or in contravention of applicable law;
- D. Offers Work that fails to meet the Specifications of the Solicitation;
- E. Is late;
- F. Is not in substantial compliance with the Solicitation;
- G. Is not in substantial compliance with all prescribed public Solicitation procedures.
- iii. The District will reject a Bid upon the District's finding that the Bidder:
  - A. Has not been prequalified under ORS 279C.430 and the District required mandatory prequalification;
  - B. Has been Disqualified;
  - C. Has been declared ineligible under ORS 279C.860 by the Commissioner of Bureau of Labor and Industries and the Contract is for a Public Work;
  - D. Is listed as not qualified by the Construction Contractors Board, if the Contract is for a Public Improvement;
  - E. Has not met the requirements of ORS 279A.105 if required by the Solicitation;
  - F. Has not submitted properly executed Bid or Proposal security as required by the Solicitation;
  - G. Has failed to provide the Certification of Non-Discrimination required under OAR 137-049-0440(3);
  - H. Is not Responsible. See OAR 137-049-0390(2) regarding District determination that the Bidder has met statutory standards of responsibility.
- b. **Form of Business.** The District may investigate any Person submitting a Bid. The investigation may include that Person's officers, Directors, Owners, affiliates, or any other Person acquiring ownership of the Person to determine application of this rule or to apply the Disqualification provisions of ORS 279C.440 to 279C.450 and OAR 137-049-0370.
- c. **Certification of Non-Discrimination.** The Bidder must certify and deliver to the District as part of their Bid, written certification (see attached Bidder Certification) that the Bidder has not discriminated and will not discriminate against any disadvantaged business enterprise, minority-owned business, women-owned business, emerging small business, or business that a service-disabled veteran owns, in obtaining any required subcontracts. Failure to do so will be grounds for disqualification.
- d. **Rejection of all Bids.** The District may reject all Bids for good cause upon the District's Written finding it is in the public interest to do so. The District will notify all Bidders of the rejection of all Bids, along with the good cause justification and finding.
- e. **Criteria for Rejection of All Bids.** The District may reject all Bids upon a Written finding that:
  - i. The content of or an error in the Solicitation, or the Solicitation process unnecessarily restricted competition for the Contract;
  - ii. The price, quality or performance presented by the Bidders is too costly or of insufficient quality to justify acceptance of the Bids;
  - iii. Misconduct, error, or ambiguous or misleading provisions in the Solicitation threaten the fairness and integrity of the competitive process;
  - iv. Causes other than legitimate market forces threaten the integrity of the competitive Procurement process. These causes include, but are not limited to, those that tend to limit competition such as restrictions on competition, collusion, corruption, unlawful anti-competitive conduct and inadvertent or intentional errors in the Solicitation;
  - v. The District cancels the Solicitation in accordance with OAR 137-049-0270; or
  - vi. Any other circumstance indicating that awarding the Contract would not be in the public interest.

SECTION III – INSTRUCTIONS TO BIDDERS:  
PUBLIC IMPROVEMENT PROCUREMENT RULES  
Solicitation No: ITB 19-0019

**21. PROTEST OF CONTRACTOR SELECTION, CONTRACT AWARD.** Pursuant to OAR 137-049-0450:

- a. **Purpose.** An adversely affected or aggrieved Bidder must exhaust all avenues of administrative review and relief before seeking judicial review of the District's Contractor selection or Contract Award decision.
- b. **Notice of Intent to Award.** Unless otherwise provided in the Solicitation, the District will provide written notice to all Bidders of the District's intent to award the Contract. The District's Award will not be final until the later of the following:
  - i. Seven (7) days after the date of the notice, unless the Solicitation provided a different period for protest; or
  - ii. The District provides a written response to all timely-filed protests that denies the protest and affirms the Award.
- c. **Right to Protest Award.**
  - i. An adversely affected or aggrieved Bidder may submit to the District a Written protest of the District's intent to award within seven (7) days after issuance of the notice of intent to award the Contract, unless a different protest period is provided under the Solicitation.
  - ii. The Bidders protest must be in Writing and must specify the grounds upon which the protest is based.
  - iii. A Bidder is adversely affected or aggrieved only if the Bidder is eligible for Award of the Contract as the Responsible Bidder submitting the lowest Responsive Bid and is next in line for Award, i.e., the protesting Bidder must claim and state specific reasons why all lower Bidders are ineligible for Award:
    - A. Because their Bids were non-responsive; or
    - B. The District committed a substantial violation of a provision in the Solicitation or of an applicable Procurement statute or administrative rule, and the protesting Bidder was unfairly evaluated and would have, but for such substantial violation, been the Responsible Bidder offering the lowest Responsive Bid.
  - iv. The District will not consider a protest submitted after the time period established in this Rule or such different period as may be provided in the Solicitation.
- d. **Authority to Resolve Protests.** The District's Purchasing Manager will settle or resolve a written protest submitted in accordance with the requirements of this Rule.
- e. **Decision.** If a protest is not settled, the Superintendent, or designee, will promptly issue a written decision on the protest. Judicial review of this decision will be available if provided by statute.
- f. **Award.** The successful Bidder must promptly execute the Contract after the Award is final. The District will execute the Contract only after it has obtained all applicable required documents and approvals.

**22. BID COSTS:** The District is not liable for any costs incurred by the Bidder in its Bid preparation.

SECTION IV – INSTRUCTIONS TO BIDDERS:  
PUBLIC WORKS  
Solicitation No. ITB 19-0019

**1. PUBLIC WORKS REQUIREMENTS:**

This solicitation will result in a Contract for a Public Work subject to ORS 279C.800 to 279C.870 or the Davis-Bacon Act (40 U.S.C. 3141 et seq., if applicable). No Bid will be received or considered by the District unless the Bid contains a statement by the Bidder that the provisions of ORS 279C.800 to 279C.870 (prevailing wage rates paid to employees) or the Davis Bacon Act (40 U.S.C. 3141 et seq, if applicable) are to be complied with (see Bidder Certification).

**2. REGISTRATION REQUIREMENTS:**

Bidders must be currently registered with the Construction Contractors Board as required by ORS 701.021, licensed by the State Landscape Contractors Board, as required by ORS 671.530, or licensed by the Department of Environmental Quality, as required by ORS 468A.710 (Air Quality) , if required, holding the proper registration for the work contemplated herein, at the time of Bid submittal. All Subcontractors participating in the project must be similarly registered with the Construction Contractors Board, State Landscape Contractors Board or Department of Environmental Quality, as required, at the time they propose to engage in subcontract work. The CCB registration requirements apply to all public works contracts unless superseded by federal law.

**3. BOLI/PWR REQUIREMENTS.** Pursuant to ORS 279C.800 to 279C.870:

All contractors and subcontractors will abide by the latest determination of the minimum wage rates as scheduled and published for this region by the U.S. Department of Labor and the Oregon Bureau of Labor and Industries and will abide by all amendments, decisions, and related regulations of these agencies.

Specifically:

- a. The Contractor is required to pay workers not less than prevailing wage rates for the Region #2 through the contract period.
- b. If the Contractor fails to pay for labor and services the District can pay and will withhold these amounts from payments to the Contractor. OAR 839-025-0020(2)(a).
- c. The Contractor is required to pay weekly, holiday (including weekends) and daily overtime as required. OAR 839-025-0020(2)(b).
- d. The existing 'prevailing rate of wage' as published by the Oregon Bureau of Labor and Industries are the Prevailing Wage Rates for Public Works Contracts in Oregon effective January 1, 2019 and the Prevailing Wage Rate Amendment effective April 1, 2019. They may be found at the following website: [http://www.oregon.gov/boli/WHD/PWR/Pages/pwr\\_state.aspx](http://www.oregon.gov/boli/WHD/PWR/Pages/pwr_state.aspx), and are incorporated herein by this reference.

**4. BONDS: PERFORMANCE, PAYMENT AND PUBLIC WORKS.** Pursuant to OAR 137-49-0460 and ORS 279C:

**a. Performance and Payment Bonds.**

- i. Pursuant to ORS 279C.380, the Contractor must furnish bonds covering the faithful performance of the Contract and payment of obligations arising there under. Bonds are to be obtained through a company that is authorized and licensed by the Oregon Insurance Commissioner. The bonding company must be listed on the most current US Government Treasury list, Department Circular 570 or approved PRIOR TO BID SUBMISSION by the District. The cost of the Bonds must be included in the Contract Sum. The amount of each Bond must be equal to 100 percent of the Contract Sum. Performance and Payment Bonds must be the AIA A312 or as approved by the District.
- ii. Bonds must be effective from the Contract date through the Final Completion of the Contract.
- iii. Failure to adhere to these requirements may be grounds for rejection of the Bid.

**b. Public Works Bond.**

SECTION IV – INSTRUCTIONS TO BIDDERS:  
PUBLIC WORKS  
Solicitation No. ITB 19-0019

- i. Contractors who work on public works projects, subject to the PWR law, are required to file a \$30,000 Public Works Bond to be used exclusively for unpaid wages determined to be due by BOLI. Proof of this bond in effect must be provided to the District prior to Contract signing, after the award of this solicitation.
  - ii. General Contractors are required to verify that subcontractors have filed a public works bond before permitting a subcontractor to start work on a project.
  - iii. ORS 279C.836 provides exemptions from the bond requirements for certified disadvantaged, minority, women, service-disabled veteran owned or emerging small business enterprises. It is the Contractor's responsibility to notify the District if an exemption applies to the Contractor.
  - iv. The Public Works Bond must be furnished by a surety company authorized to do business in Oregon
- c. **Time for Submission.** The apparent successful Bidder must promptly furnish the required performance security upon the District's request. If the Bidder fails to furnish the security as requested, the District may reject the Bid and award the Contract to the Responsible Bidder with the next lowest Responsive Bid, and, at the District's discretion, the Bidder must forfeit its Bid Bond.

**5. SUBSTITUTE CONTRACTOR.** Pursuant to OAR 137-49-0470:

If the Contractor provided a performance bond, the District may afford the Contractor's surety the opportunity to provide a substitute Contractor to complete performance of the Contract. A substitute Contractor must perform all remaining contract Work and comply with all terms and conditions of the Contract, including the provisions of the performance bond and the payment bond. Such substitute performance does not involve the Award of a new Contract and will not be subject to the competitive procurement provisions of ORS Chapter 279C.

**6. FOREIGN CONTRACTOR.** Pursuant to OAR 137-49-0490:

If the Contract Price exceeds \$10,000 and the Contractor is a Foreign Contractor, the Contractor must promptly report to the Oregon Department of Revenue on forms provided by the Department of Revenue, the Contract Price, terms of payment, Contract duration and such other information as the Department of Revenue may require before final payment can be made on the Contract. A copy of the report must be forwarded to the District. The District will satisfy itself that the above requirements have been complied with before it issues final payment on the Contract.

**7. CERTIFIED PAYROLL WITHHOLDING.** Pursuant to ORS 279C.845:

- a. If a prime contractor does not file certified payroll as required (at least once per month), the District will withhold 25% of amounts due to the prime contractor, in addition to any other required Retainage.
- b. If a first-tier subcontract does not file certified payroll reports as required, the prime contractor must withhold 25% of amounts due the first-tier subcontractor.
- c. Once certified payroll reports are submitted, the District or prime contractor are to pay amounts withheld within 14 days.
- d. Neither the District nor the prime contractor is required to verify the accuracy of the contents of the certified payroll reports.

**8. DRUG TESTING REQUIREMENT:**

ORS 279C.505(2) requires that all public improvement contracts contain a provision requiring contractors to demonstrate that an employee drug-testing program is in place. Bidders are therefore required to certify that they have an employee drug-testing program in place that applies to all employees and will maintain a drug-testing program at all times during the performance of the awarded Contract. Failure to maintain a program will constitute a material breach of contract. The use of drugs, alcohol, or any tobacco products is prohibited on all District property.



SECTION IV – INSTRUCTIONS TO BIDDERS:  
PUBLIC WORKS  
Solicitation No. ITB 19-0019

**9. OTHER TERMS AND CONDITIONS:**

The Contractor must understand and agree to comply with the following:

- a. Provide prompt payment to all Persons supplying labor or material for the performance of the work; Pay all contributions or amounts due the Industrial Accident Fund; Not permit any lien or claim to be filed or prosecuted against the District; and Pay to the Department of Revenue all sums withheld from employees. (ORS 279C.505(1));
- b. Demonstrate that an employee drug testing program is in place. (ORS 279C.505(2));
- c. If the Contract calls for demolition Work described in ORS 279C.510(1), the Contractor is required to salvage or recycle construction and demolition debris, if feasible and cost-effective;
- d. If the Contract calls for lawn or landscape maintenance, the Contractor is required to compost or mulch yard waste material at an approved site, if feasible and cost effective (ORS 279C.510(2);
- e. If the Contractor fails, neglects or refuses to pay promptly a person's claim for labor or services provided to the contractor or a subcontractor, the District may pay the amount of the claim to the person that provides the labor or services and charge the amount of the payment against funds due or to become due the contractor, as set forth in ORS 279C.515(1);
- f. If the Contractor or a first-tier subcontractor fails, neglects or refuses to pay a person that provides labor or materials in connection with the public improvement contract within 30 days after receiving payment from the contracting agency or a contractor, the contractor or first-tier subcontractor owes the person the amount due plus interest charges. (ORS 279C.515(2));
- g. If the Contractor or a subcontractor fails, neglects or refuses to pay a person that provides labor or materials in connection with the public improvement contract, the person may file a complaint with the Construction Contractors Board, unless payment is subject to a good faith dispute as defined in ORS 279C.580. (ORS 279C.515(3));
- h. Abide by maximum hours of labor and overtime, as set forth in ORS 279C.520(1);
- i. Provide employer notice to employees of hours and days that employees may be required to work, as set forth in ORS 279C.520(2);
- j. Abide by environmental and natural resources regulations (ORS 279C.525);
- k. Make required payments for medical care and certain services related to sickness and injury to employees, as set forth in ORS 279C.530(1);
- l. Understand all employers, including Contractor, that employ subject workers who work under this Contract in the State of Oregon must comply with ORS 656.017 and provide the required Workers' Compensation coverage, unless such employers are exempt under ORS 656.126. Contractor must ensure that each of its subcontractors complies with these requirements. (ORS 279C.530(2));
- m. Abide by maximum hours, holidays and overtime (ORS 279C.540);
- n. Abide by time limitation on claims for overtime (ORS 279C.545);
- o. Pay prevailing wage rates, including subcontractors (ORS 279C.800 to 279C.870);
- p. File required BOLI Public Works bond(s) including subcontractors, as set forth in ORS 279C.830(2);
- q. Follow Retainage rules (ORS 279C.550 to 279C.570);
- r. Abide by prompt payment policy, progress payments, rate of interest (ORS 279C.570);
- s. Maintain relations with subcontractors (ORS 279C.580);
- t. Make notice of claim (ORS 279C.605);
- u. Provide Affidavit of Compliance with the Oregon tax laws in accordance with ORS 305.385; and
- v. Certify that all subcontractors performing Work described in ORS 701.005(2) (i.e., construction Work) will be registered with the Construction Contractors Board, licensed by the State Landscape Contractors Board in accordance with ORS 701.021 to 701.050, or licensed under ORS 468A.720 (Air Quality), if required, before the subcontractors commence Work under the Contract.

SECTION IV – INSTRUCTIONS TO BIDDERS:  
PUBLIC WORKS  
Solicitation No. ITB 19-0019

- w. Assignment or Transfer Restricted. Unless otherwise provided in the Contract, the Contractor must not assign, sell, dispose of, or transfer rights, or delegate duties under the Contract, either in whole or in part, without the District's prior Written consent. Unless otherwise agreed by the District in Writing, such consent will not relieve the Contractor of any obligations under the Contract. Any assignee or transferee will be considered the agent of the Contractor and be bound to abide by all provisions of the Contract. If the District consents in Writing to an assignment, sale, disposal or transfer of the Contractor's rights or delegation of Contractor's duties, the Contractor and its surety, if any, must remain liable to the District for complete performance of the Contract as if no such assignment, sale, disposal, transfer or delegation had occurred unless the District otherwise agrees in Writing.

SECTION V – ATTACHMENTS  
Solicitation No. ITB 19-0019

**1. BID PREPARATION:**

- a. Bidder must complete and return as its Bid, the required Affidavit, Certifications and Forms included as Attachments to this Solicitation. (See Attached Bid Submission Checklist)
- b. Failure to complete, **sign**, and submit these and any other document(s) as requested or required in accordance with this Solicitation may be grounds to declare the Bid nonresponsive.

**2. FORMS**

- a. The attached forms are to be included in Bid.
- b. Copies of the included forms (See Attached Bid Submission Checklist) are to be completed and submitted by the Bidder along with other required documents as required by the Instructions to Bidders.
- c. **References.** If the Bidder has performed any project or work with the District in the last ten (10) years, one of the references must be from the Bidder's most recent contract with the District.

**3. FORM OF AGREEMENT**

The form of construction agreement to be used between the District and the General Contractor for the Project is the AIA Document A101-2007 and AIA Document A201-2007 as issued by the Beaverton School District. Any references and/or requirements of the General Contractor to the District must apply to sub-contractors' requirements to the District and General Contractor. A sample Copy of the AIA Document A101-2007 and AIA Document A201-2007 as issued by Beaverton School District are included herein.

## BID SUBMISSION CHECKLIST

**ALL AFFIDAVITS, CERTIFICATIONS, FORMS AND BID CONTENT REQUIREMENTS AS SPECIFIED IN SECTION V MUST BE INCLUDED AS PART OF THE BID.**

### \_\_\_\_ REQUIRED AFFIDAVIT, CERTIFICATIONS AND FORMS

The following affidavit, certifications and forms must be completed **and signed** by the person authorized to represent the Bidder regarding all matters related to the Bid and authorized to bind the Bidder to the agreement. Failure to submit any of the required, completed, **and signed** affidavits/certifications/forms may be grounds to declare the Bid nonresponsive.

- \_\_\_\_ BIDDER CERTIFICATION - This serves as the cover sheet for your Bid. (Attachment A)
- \_\_\_\_ BID SCHEDULE. (Attachment B)
- \_\_\_\_ BID SECURITY (Bid Bond). (Attachment C)
- \_\_\_\_ AFFIDAVIT OF NON-COLLUSION / COMPLIANCE WITH TAX LAWS. (Attachment D)
- \_\_\_\_ NON-CONFLICT OF INTEREST CERTIFICATION. (Attachment E)
- \_\_\_\_ BIDDER RESPONSIBILITY FORM – All Pages. (Attachment F)
- \_\_\_\_ BIDDER REFERENCE FORMS – Include the # specified on the form. See SECTION V Paragraph 2. (Attachment G)
- \_\_\_\_ FIRST-TIER SUBCONTRACTOR DISCLOSURE FORM (Attachment H)

---

The Bidder is **encouraged** to use the following attachment to identify their Bid. It is provided for the Bidder's convenience and is **NOT** required.

ATTACHMENT I          Sealed Bid Label

---

The following attachment(s) are **NOT** to be returned with the Bid. Bidders must review the content of these attachment(s).

ATTACHMENT J          Drawings (available as a separate document)

ATTACHMENT K          Specifications (available as a separate document)

ATTACHMENT L          General Commissioning Requirements

ATTACHMENT M          Asbestos Abatement Specifications

ATTACHMENT N          Asbestos and Lead Paint Survey Report

SECTION V – ATTACHMENTS  
Solicitation No. ITB 19-0019

ATTACHMENT O	Air Reps Chiller Submittal
ATTACHMENT P	Air Reps National IPA Proposal
ATTACHMENT Q	Daikin Applied Cooperative Contract
ATTACHMENT R	Sample AIA A101 Contract and AIA A201 General Conditions

---

This checklist is provided for the Bidder's convenience in assembling their Bid and is NOT required to be returned with the Bid.

**BIDDER CERTIFICATION**

Respectfully submitted this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_



**Signature:** \_\_\_\_\_

**Name:** \_\_\_\_\_ **Phone:** \_\_\_\_\_  
(Please type or print)

**Title:** \_\_\_\_\_

**Email Address:** \_\_\_\_\_

**Firm/Company Name:** \_\_\_\_\_

**Physical Address:** \_\_\_\_\_

**City, State, Zip:** \_\_\_\_\_

1. The Bidder certifies that he or she has read and understands the Drawings, Specifications, Addenda, Contract and all other documents pertaining to this Project.
2. The Bidder, having become completely familiar with the local conditions and legal requirements affecting the cost of Work at the place where Work is to be executed, and having carefully examined the site conditions as they currently exist, agrees to provide all labor, materials, plant, equipment, transportation and other facilities and services as necessary and/or required to execute all of the Work described by the aforesaid documents will be provided and within the time specified.
3. The Bidder acknowledges that the Project Milestones in Section II – STATEMENT OF WORK includes certain specific dates. These dates must be adhered to unless modified by mutual agreement between Contractor and the Owner. All dates indicate 5:00 PM Pacific Time.

The Bidder agrees to complete the work within the number of calendar days as stipulated in the Contract and to meet the Milestones and Specific Dates set forth above and acknowledges that his/her failure to achieve Completion by these stipulated dates, or by any Owner authorized extension thereto, subjects the Bidder to liquidated damages for failure to perform, as further defined in the Contracts.

4. The Bidder agrees to execute the formal Contract within five (5) days from date of Notice of Acceptance of this Bid. In the event the undersigned fails or neglects to execute the Contract and the undersigned is considered having abandoned the Contract by the Owner, the Bid security will be forfeited.
5. The Bidder acknowledges that he or she that signs this Bid is fully authorized to sign on behalf of the firm listed and to fully bind the firm listed to all conditions and provisions thereof.

SECTION V – ATTACHMENTS  
 ATTACHMENT A  
 Solicitation No. ITB 19-0019

6. The Bidder certifies that Bidder has complied or will comply with all requirements of local, state, and national laws, and that no legal requirement has been or will be violated in making or accepting this Bid.
7. The Bidder is registered with the Construction Contractors Board, or is licensed by the State Landscape Contractors Board, or licensed under ORS 468A.720 (Air Quality), if required.  
 License Number \_\_\_\_\_. (The District will not receive or consider a Bid for a Public Improvement unless the Bidder is registered with the Construction Contractors Board, or is licensed by the State Landscape Contractors Board).
8. The Bidder, pursuant to ORS 279A.120 (1), (check one) is \_\_\_\_\_/is not \_\_\_\_\_ a resident Bidder. If not, indicate State of residency \_\_\_\_\_.
9. The Bidder certifies that the required Statutory Public Works Bond has been filed with the Construction Contractor's Board.
10. The Bidder agrees to be bound by and will comply with the provisions of Prevailing Wage Laws ORS 279C.800 through ORS 279C.870 or the Davis-Bacon Act (40 U.S.C. 3141 et seq., if applicable).
11. The Bidder certifies that it has not discriminated and will not discriminate, in violation of ORS 279A.110, against any disadvantaged business enterprise, minority-owned business, women-owned business, emerging small business, or business that a service-disabled veteran owns in obtaining any required subcontract.
12. The Bidder agrees to comply with Oregon tax laws in accordance with ORS 305.385.
13. Any Bid of a contractor or subcontractor listed on BOLI's List of Ineligibles will be rejected.
14. The Bidder acknowledges receipt of the following Addenda: (List by number and date appearing on Addendum.)

Addendum Number	Date	Addendum Number	Date
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

This solicitation will result in a Contract for a Public Work subject to ORS 279C.800 to 279C.870.

## BID SCHEDULE

\_\_\_\_\_  
(Contractor)

TOTAL BASE BID: including the Work as defined in the Project Manual, Drawings and Addenda (if any),  
the TOTAL SUM OF:

\_\_\_\_\_ DOLLARS (\$\_\_\_\_\_)

### NOTES:

- Contractor will be required to develop a schedule of values for payment and accounting purposes prior to the initial request for payment in a form acceptable to the District.
- If any information submitted on this form is contradictory, words prevail over numbers.

The Contract is intended to be awarded to a single Contractor.



**BID BOND**

\_\_\_\_\_  
(Contractor)

THIS DOCUMENT HAS IMPORTANT LEGAL CONSEQUENCES: CONSULTATION WITH AN ATTORNEY IS ENCOURAGED WITH RESPECT TO ITS COMPLETION OR MODIFICATION.

KNOW ALL MEN BY THESE PRESENTS, that we \_\_\_\_\_  
*(Here insert full name and address or legal title of Contractor)*

As Principal, hereinafter called the Principal, and \_\_\_\_\_  
*(Here insert full name and address or legal title of Surety)*

a Corporation duly organized under the laws of the State of Oregon as Surety, hereinafter called the Surety, are held and firmly bound unto Beaverton School District No. 48J, 16550 SW Merlo Road, Beaverton, OR 97003, as Obligee, hereinafter called the Obligee, in the sum of five percent of dollars (\$) amount Bid (5%), for the payment of which sum well and truly to be made, the said Principal and the said Surety, bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has submitted a Bid for \_\_\_\_\_.

NOW, THEREFORE, if the Obligee shall accept the Bid of the Principal and the Principal shall enter into a Contract with the Obligee in accordance with the terms of such Bid, and give such bond or bonds as may be specified in the Contract Documents with good and sufficient surety for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof, or in the event of the failure of the Principal to enter such Contract and give such bond or bonds, if the Principal shall pay to the Obligee the difference not to exceed the penalty hereof between the amount specified in said Bid and such larger amount for which the Obligee may in good faith contract with another party to perform the Work covered by said Bid, then this obligation shall be null and void, otherwise to remain in full force and effect.

Signed and sealed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
(Witness)

\_\_\_\_\_  
(Principal)

(Seal)

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
(Witness)

\_\_\_\_\_  
(Surety)

(Seal)

\_\_\_\_\_  
(Title)

**AFFIDAVIT OF NON-COLLUSION / COMPLIANCE WITH TAX LAWS**

\_\_\_\_\_  
(Bidder)

I state that:

- (1) The correct taxpayer identification numbers are:  
A. Federal Employer ID Number (EIN): \_\_\_\_\_ B. Employer's Oregon ID Number: \_\_\_\_\_
- (2) Bidder is not subject to backup withholding because (i) Bidder is exempt from backup withholding, (ii) Bidder has not been notified by the IRS that Bidder is subject to backup withholding as a result of a failure to report all interest or dividends, or (iii) the IRS has notified Bidder that Bidder is no longer subject to backup withholding;
- (3) The price(s) and amount of this Bid must be arrived at independently and without consultation, communication or agreement with any other Supplier, Bidder or potential Bidder, except as disclosed on the attached appendix.
- (4) That neither the price(s) nor the amount of this Bid, and neither the approximate price(s) nor approximate amount of this Bid, will be disclosed to any other firm or person who is a Bidder or potential Bidder, and they will not be disclosed before Contract award.
- (5) No attempt has been made or will be made to induce any firm or person to refrain from proposing on this Solicitation, or to submit any noncompetitive Bid or other complementary Bid.
- (6) The Bid of my firm is made in good faith and not pursuant to any agreement or discussion with, or inducement from, any firm or person to submit a complementary or other noncompetitive Bid.
- (7) \_\_\_\_\_ (name of firm), its affiliates, subsidiaries, officers, directors and employees are not currently under investigation by any governmental agency and have not in the last four years been convicted of or found liable for any act prohibited by State or Federal law in any jurisdiction, involving conspiracy or collusion with respect to proposing on any public contract, except as described in the attached appendix.

I state that \_\_\_\_\_ (name of firm) understands and acknowledges that the above representations are material and important, and will be relied on by the Beaverton School District in awarding the contract(s) for which this Bid is submitted. I understand and my firm understands that any misstatement in this affidavit is and will be treated as fraudulent concealment from the Beaverton School District of the true facts relating to the submission of Bids for this contract. I am authorized to act on behalf of Bidder, and have authority and knowledge regarding Bidder's payment of taxes, and to the best of my knowledge, Bidder is not in violation of any Oregon tax laws, including, without limitation, those tax laws listed in ORS 305.380(4); the elderly rental assistance program under ORS 310.630 to 310.706; and any local taxes administered by the Oregon Department of Revenue under ORS 305.620.



\_\_\_\_\_  
(Affiant's Signature)

STATE OF OREGON

County of \_\_\_\_\_

Signed and sworn to before me on \_\_\_\_\_ by \_\_\_\_\_  
(date) (Affiant's name)

Notary: \_\_\_\_\_

My Commission Expires: \_\_\_\_\_

## NON-CONFLICT OF INTEREST CERTIFICATION

**Issuing Agency:** Beaverton School District

I, \_\_\_\_\_ hereby certify I have read the statement defining conflict of interest as quoted below; that I understand the statement; that no conflict of interest exists as therein defined, which precludes an impartial Bid/Proposal to be submitted by myself or the entity/company for which the Bid/Proposal is submitted, and that if such a conflict should arise, I will immediately notify the Beaverton School District and disqualify my Bid/Proposal.

**"NO OFFICER, EMPLOYEE, OR AGENT OF THE BIDDER/PROPOSER HAS ANY PERSONAL FINANCIAL INTEREST, DIRECT OR INDIRECT, IN THE OPERATION OF THE BEAVERTON SCHOOL DISTRICT OR WITH ANY PARTY CONNECTED WITH THE OREGON SCHOOL AND DISTRICT IMPROVEMENT NETWORK, DIRECTLY OR INDIRECTLY."**

 Signature: \_\_\_\_\_

Name: \_\_\_\_\_  
(Please type or print)

Title: \_\_\_\_\_

Firm/Company Name: \_\_\_\_\_  
(Please type or print)

Date: \_\_\_\_\_

**BIDDER RESPONSIBILITY FORM  
(CONTRACTOR’S QUALIFICATIONS AND FINANCIAL INFORMATION)****DECLARATION AND SIGNATURES**

The undersigned hereby declares that the he or she is duly authorized to complete and submit this Bidder Responsibility Form and that the statements contained herein are true and correct as of the date set forth below. Incomplete, incorrect or misleading information will be reason for a determination by the District of Bidder non-responsibility.

Date: \_\_\_\_\_

 Signature: \_\_\_\_\_Name: \_\_\_\_\_  
(Please type or print)Title: \_\_\_\_\_  
(Please type or print)Firm/Company: \_\_\_\_\_  
(Please type or print)

CCB#: \_\_\_\_\_

**Instructions**

- 1. The information provided in this form is part of the District’s inquiry concerning Bidder responsibility. Please print clearly or type.**
- 2. If you need more space, use plain paper. Submit completed form with Bid response.**
- 3. Answer all questions. Submission of a form with unanswered questions, incomplete or illegible answers may result in a finding that the Bidder is not a responsible Bidder.**

SECTION V – ATTACHMENTS  
 ATTACHMENT F  
 Solicitation No. ITB 19-0019

**CURRENT CONTRACTS IN FORCE**

ITEM	CONTRACT 1	CONTRACT 2
A. Work Location		
B. Scope of Work;		
Check box:	<input type="checkbox"/> New Construction <input type="checkbox"/> Re-Construction	<input type="checkbox"/> New Construction <input type="checkbox"/> Re-Construction
C. Contract Amount	\$	\$
D. Change Order Amount	\$	\$
E. % Completed	%	%
F. Est. Completion Date		
G. Owner's Name		
H. Owner Contact		
I. Telephone	(     )	(     )
J. E-Mail Address		
ITEM	CONTRACT 3	CONTRACT 4
A. Work Location		
B. Scope of Work;		
Check box:	<input type="checkbox"/> New Construction <input type="checkbox"/> Re-Construction	<input type="checkbox"/> New Construction <input type="checkbox"/> Re-Construction
C. Contract Amount	\$	\$
D. Change Order Amount	\$	\$
E. % Completed	%	%
F. Est. Completion Date		
G. Owner's Name		
H. Owner Contact		
I. Telephone	(     )	(     )
J. E-Mail Address		

**LARGEST SIMILAR JOBS YOU HAVE COMPLETED IN THE LAST FIVE YEARS AS THE PRIME CONTRACTOR**

ITEM	CONTRACT 1	CONTRACT 2
A. Work Location		
B. Scope of Work;		
Check box:	<input type="checkbox"/> New Construction <input type="checkbox"/> Re-Construction	<input type="checkbox"/> New Construction <input type="checkbox"/> Re-Construction
C. Contract Amount	\$	\$
D. Change Order Amount	\$	\$
E. % Completed	%	%
F. Completion Date		
G. Owner's Name		
H. Owner Contact		
I. Telephone	( )	( )
J. E-Mail Address		

**LIST COMPANIES FROM WHOM YOU OBTAIN SURETY BONDS**

ITEM	SURETY COMPANY 1	SURETY COMPANY 2
A. Company Name		
B. Contact's Name		
C. Telephone	( )	( )
D. Fax	( )	( )
E. E-Mail Address		
PRESENT AMOUNT OF BONDING COVERAGE (\$):	HAS YOUR APPLICATION FOR SURETY BOND EVER BEEN DECLINED <i>(If Yes, please provide detailed information in Remarks)</i> <input type="checkbox"/> YES <input type="checkbox"/> NO	DURING THE PAST 2 YEARS, HAVE YOU BEEN CHARGED WITH A FAILURE TO MEET THE CLAIMS OF YOUR SUBCONTRACTORS OR SUPPLIERS <i>(If Yes, please provide detailed information in Remarks)</i> <input type="checkbox"/> YES <input type="checkbox"/> NO

**RELIABILITY**

Has your company ever been declared in breach of any contract for unperformed or defective work? ☐ Yes. ☐ No.

If “yes”, explain.

---

---

---

Has any employee or agent of your company ever been convicted of a criminal offense arising out of obtaining, attempting to obtain, or performing a public or private contract or subcontract? ☐ Yes. ☐ No.

If “yes,” explain.

---

---

---

Has any employee or agent of your company been convicted under state or federal law of embezzlement, theft, forgery, bribery, falsification or destruction of records, receiving stolen property or any other offense indicating a lack of business integrity or business honesty? ☐ Yes. ☐ No.

If “yes,” explain.

---

---

---

Has your company or any employee or agent of your company been convicted under state or federal antitrust laws? ☐ Yes. ☐ No.

If “yes,” explain.

---

---

---

Has any Officer or Partner of your organization ever been an Officer or Partner of another Organization that failed to complete a construction contract? ☐ Yes. ☐ No.

If “yes,” explain.

---

---

---

**FINANCIAL RESOURCES**

Indicate the Contractors total bonding capacity amount: \$\_\_\_\_\_.

What portion of this amount remains available at time of completion of this form? \$\_\_\_\_\_.

Has your firm ever been at any time in the last ten years the debtor in a bankruptcy case? ☐ Yes. ☐ No.

If “yes,” explain.

---

---

Does your firm have any outstanding judgments pending against it? ☐ Yes. ☐ No.

If “yes,” explain.

---

---

In the past ten years, has your firm been a party to litigation, arbitration or mediation where the amount in dispute exceeded \$10,000? ☐ Yes. ☐ No.

If “yes,” explain.

(Include court, case number and party names.) \_\_\_\_\_

---

In the past ten years, has your firm been a party to litigation, arbitration or mediation on a matter related to payment to subcontractors or work performance on a contract? Check “yes” even if the matter proceeded to arbitration or mediation without court litigation. ☐ Yes. ☐ No.

If “yes,” explain. (Include court, case number and party names.)

---

---

Have you or any of your affiliates discontinued business operation with outstanding debts? ☐ Yes. ☐ No.

If “yes,” explain.

---

---



### KEY PERSONNEL

List the principal individuals of your company, their current job title, the total years of experience they have in the construction industry and their current primary responsibility for your company. Corporations list current officers and those who own 5% or more of the corporation's stock. Limited liability companies list members who own 5% or more of company. Partnerships list all partners. Joint ventures list each firm that is a member of the joint venture and the percentage of ownership the firm has in the joint venture.

ITEM	Principal Individual
A. Name	
B. Position	
C. Years in Construction	
D. Current Primary Responsibility	
ITEM	Principal Individual
A. Name	
B. Position	
C. Years in Construction	
D. Current Primary Responsibility	
ITEM	Principal Individual
A. Name	
B. Position	
C. Years in Construction	
D. Current Primary Responsibility	
ITEM	Principal Individual
A. Name	
B. Position	
C. Years in Construction	
D. Current Primary Responsibility	

List the individuals who will be in the following roles if your company is awarded this Contract:

ITEM	Contractor's Representative	Project Manger	Project Superintendent
A. Name			
B. Position			
C. Years in Position	N/A		
D. Largest Project Supervised	N/A	\$	\$
E. Largest number of employees ever supervised	N/A		

## BIDDER REFERENCE FORM

BIDDER REFERENCE FORM FOR \_\_\_\_\_  
(Insert Name of Bidder)

***Bidder must provide five (5) references and must use a separate copy of this form for each reference. Bidder should provide references from projects of similar size, scope and complexity, in which the Bidder performed as the General or Prime Contractor.***

Date(s) Work Performed: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Name(s) of Project(s): \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Value of Project(s): \$ \_\_\_\_\_

Name of Company: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Contact Name: \_\_\_\_\_

Telephone: \_\_\_\_\_

Email: \_\_\_\_\_

Method: Subjective Evaluation

Each reference may be checked for, but not limited to, adherence to contract terms and conditions, timelines, quality standards, overall customer service, project being of similar size, scope and complexity.

**FIRST-TIER SUBCONTRACTOR DISCLOSURE FORM**

(Contractor) \_\_\_\_\_

<b>PROJECT NAME:</b>	Highland Park MS HVAC Upgrades
----------------------	--------------------------------

<b>BID #:</b>	19-0019	<b>BID CLOSING DATE:</b>	May 16, 2019	<b>BID CLOSING TIME:</b>	2:00 PM Pacific Time
---------------	---------	--------------------------	--------------	--------------------------	----------------------

<b>DISCLOSURE DEADLINE:</b>	<b>DISCLOSURE DUE DATE:</b>	May 16, 2019	<b>DISCLOSURE DUE TIME:</b>	4:00 PM Pacific Time
-----------------------------	-----------------------------	--------------	-----------------------------	----------------------

Bidders must submit this First-Tier Subcontractor Disclosure Form **\*EITHER\*** with the sealed Bid submission **\*OR\*** in a separate envelope no later than the Disclosure Deadline indicated above.

List below the name of each subcontractor that will be furnishing labor or will be furnishing labor and materials and that is required to be disclosed, the category of work that the subcontractor will be performing and the dollar value of the subcontract. Enter "NONE" if there are no subcontractors that need to be disclosed. (ATTACH ADDITIONAL SHEETS IF NEEDED.)

SUBCONTRACTOR'S NAME	CATEGORY OF WORK	DOLLAR VALUE
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

The above listed first-tier subcontractor(s) are furnishing labor or labor and materials with a Dollar Value greater than or equal to:

- a) 5% of the total project Bid, but at least \$15,000 (including all alternates); or
- b) \$350,000 regardless of the percentage of the total project Bid.

**FAILURE TO SUBMIT THIS FORM BY THE DISCLOSURE DEADLINE WILL RESULT IN A NON-RESPONSIVE BID. A NON-RESPONSIVE BID WILL NOT BE CONSIDERED FOR AWARD!**

Contractor Contact Name: \_\_\_\_\_ Phone #: \_\_\_\_\_

Deliver Form To:	BEAVERTON SCHOOL DISTRICT FACILITIES DEVELOPMENT MAIN PORTABLE	
Person Designated to Receive Form:	Justin Sweet	Contract Specialist
Agency's Address:	16550 SW Merlo Road, Beaverton OR 97003	
THIS DOCUMENT <u>MUST NOT</u> BE FAXED. IT IS THE RESPONSIBILITY OF BIDDERS TO SUBMIT THIS DISCLOSURE FORM AND ANY ADDITIONAL SHEETS, WITH THE BID NUMBER AND PROJECT NAME CLEARLY MARKED, AT THE LOCATION INDICATED BY THE SPECIFIED DISCLOSURE DEADLINE. SEE INSTRUCTIONS TO BIDDERS.		

**THE DISTRICT MUST REJECT A BID IF THE BIDDER FAILS TO SUBMIT THE DISCLOSURE FORM WITH THIS INFORMATION BY THE STATED DEADLINE (see OAR 137-049-0360).**

**SEALED BID LABEL**

**SEALED BID ENCLOSED**

**DELIVER TO:**

Beaverton School District  
Facilities Development Main Portable  
16550 SW Merlo Road  
Beaverton, Oregon 97003

---

**SEALED BID # 19-0019 DATE: May 16, 2019**

**BIDS MUST BE RECEIVED NO LATER THAN 2:00 PM PACIFIC TIME**

**FOR: Highland Park MS HVAC Upgrades**

**BIDDER:** \_\_\_\_\_

Please attach label to outside of Bid package.

## GENERAL COMMISSIONING REQUIREMENTS

### PART 1 - GENERAL

#### 1.1 PURPOSE

- A. This Section includes the general requirements that apply to the implementation of the commissioning process.
- B. Commissioning is a systematic process that provides documented confirmation that the building systems perform according to the criteria set forth in the design intent defined in the Basis of Design and satisfy the operational needs defined in the Owner's Project Requirements.
- C. Commissioning during the construction phase is intended to achieve the following specific objectives:
  - 1. Verify that applicable equipment and systems are installed according to the manufacturer's recommendations and to industry accepted minimum standards and that they receive adequate operational checkout by the installing contractors.
  - 2. Verify and document proper performance of equipment and systems.
  - 3. Verify that O&M documentation left on site is complete.
  - 4. Verify that the Owner's operating personnel are adequately trained.

#### 1.2 ABBREVIATIONS

A/E-	Architect and design engineers	GC-	General contractor (prime)
CxA-	Commissioning authority	MC-	Mechanical contractor
CC-	Controls contractor	OR-	Owner's Representative
CM-	Construction Manager	PFC-	Pre-functional checklist
Cx-	Commissioning	PM-	Project manager (of the Owner)
EC-	Electrical contractor	Subs-	Subcontractors to General
FTP-	Functional Test Procedure	TAB-	Test and balance contractor

#### 1.3 DEFINITIONS

- A. Owner's Project Requirements (OPR): A document that details the functional requirements of a project and the expectations of how it will be used and operated. These include Project goals, measurable performance criteria, cost considerations, benchmarks, success criteria, and supporting information.
- B. Basis of Design (BOD) Basis of Design: A document that records concepts, calculations, decisions, and product selections used to meet the OPR and to satisfy applicable regulatory requirements, standards, and guidelines. The document includes both narrative descriptions and lists of individual items that support the design process.
- C. Commissioning Plan: A document that outlines the organization, schedule, allocation of resources, and documentation requirements of the commissioning process as dictated by the Commissioning Specification.
- D. Pre-Functional Checklist (PFC): A list of items to inspect and elementary component tests to conduct to verify proper installation of equipment, provided by the CxA to the contractors. Pre-functional checklists are primarily static inspections and procedures to prepare the equipment or system for initial operation (e.g., belt tension, oil levels OK, labels affixed, gages in place, sensors calibrated, etc.). However, some pre-functional checklist items entail simple testing of the function of a component, a piece of equipment or system (such as measuring the voltage imbalance on a three-phase pump motor of a chiller system). The word pre-functional refers to before functional testing. Pre-functional checklists augment and are combined with the manufacturer's start-up checklist. Even without a commissioning process, contractors typically perform some, if not many, of the pre-functional checklist items a commissioning authority will recommend. However, few contractors document in writing the execution of these checklist items.

Therefore, for most equipment, the contractors execute the checklists on their own. The commissioning authority only requires that the procedures be documented in writing, and does not witness much of the pre-functional checklist completion, except for larger or more critical pieces of equipment.

- E. Sampling: Functionally testing only a fraction of the total number of identical or near identical pieces of equipment.
- F. Functional Test Procedure (FTP): Test of the dynamic function and operation of equipment and systems using manual (direct observation) or monitoring methods. Functional testing is the dynamic testing of systems (rather than just components) under full operation (e.g., the chiller pump is tested interactively with the chiller functions to see if the pump ramps up and down to maintain the differential pressure setpoint). Systems are tested under various modes, such as during low cooling or heating loads, high loads, component failures, unoccupied, varying outside air temperatures, fire alarm, power failure, etc. The systems are run through all the control system's sequences of operation and components are verified to be responding as the sequences state. Traditional air or water test and balancing (TAB) is not functional testing, in the commissioning sense of the word. TAB's primary work is setting up the system flows and pressures as specified, while functional testing is verifying that which has already been set up. The commissioning authority develops the functional test procedures in a sequential written form, coordinates, oversees and documents the actual testing, which is usually performed by the installing contractor or vendor. FTPs are performed after pre-functional checklists and startup are complete.
- G. Issue Log (IL): A formal and ongoing record of problems or concerns – and their resolution – that has been raised by members of the Commissioning Team during the course of the Commissioning Process.

#### 1.4 RELATED WORK SPECIFIED ELSEWHERE

##### A. General

- 1. 013100 Project Management and Coordination
- 2. 013300 Submittal Procedures
- 3. 017700 Closeout Procedures
- 4. 017800 Closeout Submittals
- 5. 017900 Demonstration and Training

##### B. HVAC

- 1. 230500 HVAC Materials And Methods
- 2. 230590 Testing, Adjusting, And Balancing
- 3. 230700 HVAC Insulation
- 4. 230923 DDC Controls
- 5. 230993 HVAC Sequence
- 6. 232100 Hydronic System
- 7. 232300 Refrigerant Piping Systems
- 8. 233000 Air Distribution
- 9. 232300 HVAC Fans
- 10. 235700 Heat Exchangers
- 11. 236215 Air Cooled Liquid Chiller
- 12. 238000 Terminal HVAC Equipment

#### 1.5 RESPONSIBILITIES

##### A. Owner & Owner Representatives

- 1. Arrange for facility operating and maintenance personnel to attend various field commissioning activities and field training sessions.
- 2. Provide final approval for the completion of the commissioning work.
- 3. Ensure that any seasonal or deferred testing and any deficiency issues are addressed.
- 4. Attend commissioning kickoff meetings and additional meetings as necessary.

B. Commissioning Authority

The primary role of the CxA is to ensure that the commissioned systems meet the owner's project requirements and function according to the design intent. The CxA is not responsible for design concept, design criteria, compliance with codes, design or general construction scheduling, cost estimating, or construction management. The CxA may assist with problem-solving non-conformance or deficiencies, but ultimately that responsibility resides with the general contractor and the A/E.

1. Coordinates and directs the commissioning activities
2. Develops and updates the following commissioning documentation as necessary:
  - a. Commissioning Plan
  - b. Pre-functional Checklists (PFC)
  - c. Commissioning Site Observation Reports
  - d. Functional Test Procedures (FTP)
  - e. Completed Functional Test Procedure (FTP) - as witnessed
  - f. Issue Log (IL)
  - g. Commissioning Report
  - h. Current Facilities Requirements
3. Reviews and provides input on the following commissioning documentation:
  - a. Commissioning Schedule
  - b. Commissioning Agenda and Meeting Minutes
  - c. Equipment and Control Submittal related to commissioned systems
  - d. Completed Pre-functional Checklists (PFC)
  - e. Start-up Reports
  - f. Training Agendas and completion verifications
  - g. Operation and Maintenance Manuals related to commissioned systems
  - h. Warranties related to commissioned systems
4. Attend commissioning Kickoff meeting and other commissioning meetings.
5. Perform pre-functional inspections, as necessary, to observe component and system installations.
6. Direct and witness functional testing as conducted by installing contractors.
7. Analyze functional test procedure, trend logs and monitoring data to verify satisfactory operation.
8. Tab verification as described in section 3.9 below.
9. Deferred Testing coordination

C. Engineer of Record

The EOR shall participate in and perform commissioning process activities including, but not limited to, the following:

1. Attend the commissioning kickoff meeting and selected commissioning team meetings.
2. Provide a Basis of Design.
3. Participate in the resolution of system deficiencies identified during commissioning.
4. Participate in the resolution of design non-conformance and design deficiencies identified during Functional testing and warranty-period commissioning.

D. General Contractor

Contractor shall assign a representative with expertise and authority to act on its behalf and shall schedule them to participate in and perform commissioning process activities including, but not limited to, the following:

1. Designate a Commissioning coordinator.
2. Coordinate and attend commissioning team meetings held on a periodic basis. Create a meeting agenda for distribution prior to the meeting and document the meetings minutes.

3. Ensure and coordinate the participation of the subcontractors in the Commissioning process.
4. Track completion of equipment start up and forward start up reports generated by contractor to CxA at least 7 days prior to functional testing.
5. Track completion of test and balance and forward test and balance report generated by contractor to CxA at least 7 days prior to functional testing.
6. Coordinate the completion of the Pre-functional checklists (PFC) by the Discipline Specific Contractors and submit completed forms to the CxA for approval.
7. Review and accept commissioning process test procedures provided by the CxA.
8. Coordinate all necessary parties for scheduled functional testing.
9. Coordinate access to all commissioned system components as necessary for CxA to witness functional test procedures.
10. Evaluate performance deficiencies identified in test reports and, in collaboration with entity responsible for system and equipment installation, recommend corrective action.
11. Review and follow procedures outlined in the Commissioning Plan.
12. Track completion of resolution of issues recorded in the Issue Log. Coordinate installing contractor's responses and updates to Issue Log.
13. Integrate and coordinate commissioning process activities with commissioning schedule based upon the construction schedule. Identify other activities that may impede the commissioning process (air barrier testing, TAB, fire alarm testing, etc.)
14. Coordinate the training of Owner personnel and provide the times and dates of training to the CxA. Provide training agendas prior to training and evaluation forms completed by training participants to the CxA.
15. Deferred Testing participation

E. Subcontractors

Subcontractor shall assign representatives with expertise and authority to act on its behalf and shall schedule them to participate in and perform commissioning process activities including, but not limited to, the following:

1. Attend commissioning kickoff meetings and additional meetings as necessary.
2. Provide all requested submittal data, including detailed start-up procedures and specific responsibilities of the Owner to keep warranties in force.
3. Complete their related sections on the Pre-functional Checklists (PFC).
4. Perform the test procedures laid out in the Functional Test Procedures (FTP) for pretesting prior to final testing witness by the CxA.
5. Perform the test procedures laid out in the Functional Test Procedures (FTP) for witness by the CxA.
6. Review and follow procedures outlined in the Commissioning Plan.
7. Provide requested graphical trends to the CxA for demonstration of system performance and incorporation into the CxA documentation.
8. Include all special tools and instruments (only available from vendor, specific to a piece of equipment) required for testing equipment according to these Contract Documents in the base bid price to the Contractor, except for stand-alone data logging equipment that may be used by the CxA.
9. Provide information requested by CxA regarding equipment sequence of operation and testing procedures.
10. Review test procedures for equipment installed by factory representatives.
11. Deferred Testing participation

F. Equipment Supplier

The equipment suppliers shall assign representatives with expertise and authority to act on their behalf and shall schedule them to participate in and perform commissioning process activities including, but not limited to, the following:

1. Assist in equipment testing per agreements with Subs.



2. Provide information requested by CxA regarding equipment sequence of operation and testing procedures.
3. Review test procedures for equipment installed by factory representatives.
4. Attend commissioning kickoff meetings and additional meetings as necessary.

1.6 SYSTEMS TO BE COMMISSIONED

Category	Systems/Equipment
HVAC	Air-Cooled Water Chiller
	Classroom Unit Ventilators
	Hallway Fan Coil Units
	AHU Cooling Coil Additions
	Music Room MZU Cooling Coil
	Two-Pipe System Switchover
	Media Center MZU Chilled Water Piping
	DDC Controls

1.7 CODES AND STANDARDS

- A. ICC Commissioning guideline
- B. BCxA guidelines
- C. ASHRAE commissioning guidelines
- D. ACG guidelines

**PART 2 - PRODUCTS**

2.1 TEST EQUIPMENT

- A. All standard testing equipment required to perform startup and initial checkout and required functional test procedures shall be provided by the Contractor. Two-way radios shall be provided by the Contractor when necessary.
- B. Special equipment, tools, test gas, and instruments required for testing equipment shall be provided by the Contractor.
- C. All testing equipment shall be of sufficient quality and accuracy to test and/or measure system performance with the tolerances specified in the Specifications. If not otherwise noted, the following minimum requirements apply: Temperature sensors and digital thermometers shall have a certified calibration within the past year to an accuracy of 0.5°F and a resolution of  $\pm 0.1^\circ\text{F}$ . Pressure sensors shall have an accuracy of  $\pm 2.0\%$  of the value range being measured (not full range of meter) and have been calibrated within the last year. All equipment shall be calibrated according to the manufacturer's recommended intervals and when dropped or damaged. Calibration tags shall be affixed or certificates readily available.

**PART 3 - EXECUTION**

3.1 COMMISSIONING TEAM:

- A. The members of the commissioning team consist of the Commissioning authority (CxA), the Owner's Representative (OR), the designated representative of the owner's Construction Management firm (CM), the General Contractor commissioning coordinator (GC), the architect and design engineers (AE & EOR), the designated representative of the Mechanical Contractor (MC), the designated representative of the Electrical Contractor (EC), the TAB representative, the designated representative of the Controls

Contractor (CC), any other installing discipline contractors or suppliers of equipment. If known, the Owner's building or plant operator/engineer is also a member of the commissioning team.

**3.2 COMMISSIONING PLAN:**

- A. The CxA will develop the commissioning plan with review and input from the rest of the Commissioning Team.

**3.3 COMMISSIONING KICK OFF MEETING:**

- A. An initial kick off meeting organized by the General Contractor Commissioning Coordinator (GC) and facilitated by the Commissioning Authority (CxA) during construction where the commissioning process is reviewed with the project commissioning team members.

**3.4 COMMISSIONING SCHEDULE:**

- A. The GC will be required to maintain a commissioning schedule that is updated periodically during the commissioning process and is presented and discussed at the commissioning meetings.
- B. Include the following typical types of milestone and predecessors:
  - 1. Utilities Available
  - 2. System Readiness (by system)
    - a. Utilities available to equipment (water, power, gas)
    - b. Equipment Startup
    - c. Controls Point to Point
    - d. Test and Balancing
    - e. Functional Test Procedures
  - 3. Conflicting construction activities (preventing Cx activities), some examples as follows:
    - a. Fire alarm testing
    - b. Air barrier testing
    - c. Air quality measuring
- C. The schedule shall be submitted to the CxA for review and discussion during the Commissioning Meetings.

**3.5 COMMISSIONING MEETINGS:**

- A. Periodic meeting held during construction organized and managed by the GC to plan, scope, coordinate, and schedule future activities and resolve problems with the commissioning team members.

**3.6 SUBMITTALS:**

- A. Equipment documentation shall be submitted to the CxA from the GC to detail startup procedures.

**3.7 STARTUPS:**

- A. The CxA may be required to witness startup of selected equipment identified in the Commissioning Plan. Scheduling of these startups shall be incorporated into the Commissioning Schedule.

**3.8 PRE-FUNCTIONAL CHECKLIST (PFC):**

- A. The CxA will develop the PFCs with review and input from the Commissioning Team. After equipment is installed, the PFCs shall be filled out by the EC, MC, and the CC. The GC shall verify the completion

of the forms prior to submitting them to the CxA. The submission of the PFC is an indication that the equipment is ready to begin functional Test Procedures (FTP).

- B. Only field individuals that have direct knowledge and witnessed that a line item task on the PFC was actually performed shall initial or check that item.

**3.9 TEST DOCUMENTATION:**

**A. TAB report:**

- 1. Prior to functional testing, certified and approved TAB report shall be submitted to the CxA for review.
- 2. The CxA may verify the TAB report for verification equipment performance. At the request of the CxA, the contractor will be available on the jobsite and with the same portable measurement instrument used during balancing, start-up and to verify 10% of the report values in the field.

**B. DDC point to point (For BAS, FMS, EPMS)**

- 1. CC shall submit a point to point checkout report that verifies all the end to end device conditions. Checkout report shall verify all installation of end device, wiring between device and controller and controller software is configured correctly reflected in the software.

**3.10 SITE OBSERVATIONS:**

- A. The CxA will perform site visits, as necessary, to observe component and system installations. Deficiencies will be identified in the Issue Log and discussed at Commissioning Meetings.

**3.11 FUNCTIONAL TEST PROCEDURES (FTP):**

- A. The CxA develops the FTPs based upon the sequence of operations laid out in the contract documents and approved control submittal and with review and input from the rest of the Commissioning Team.
- B. It is important that the GC, EC, MC, and CC review the FTPs for consistency with the current contract document requirements. Lack of coordination on the FTP may result in retesting and delay the commissioning process.
- C. Once the PFCs have been completed, the GC shall schedule testing with the CxA and Owner at least 7 days in advanced.
- D. The GC shall ensure that the systems have been pretested by the installing contractor according to the approved FTP to ensure that systems are operating properly and to avoid retesting.

**3.12 SAMPLING**

- A. The CxA shall observe, at minimum, the procedures for each piece of primary equipment, unless there are multiple (more than 20) units, in which case a sampling strategy may be used as approved by the CM. In no case will the number of units witnessed be less than four on any one building, nor less than 20% of the total number of identical or very similar units.
- B. For lower-level components of equipment, (e.g., VAV boxes, sensors, controllers), the CxA shall observe a sampling of the prefunctional, start-up procedures, and functional test procedures. The sampling procedures are identified in the commissioning plan.

3.13 ADDITIONAL TESTS:

- A. The CxA may witness all or part of the HVAC piping test and flushing procedures, sufficient to be confident that proper procedures were followed. The GC shall ensure this testing is documented and included in the O&M manuals and per the Contract Documents. The Owner's representative shall be notified of any deficiencies in the results or procedures.
- B. The CxA may witness all or part of the control point to point verification process. The GC shall ensure this testing is documented and included in the O&M manuals and per the Contract Documents. The Owner's representative shall be notified of any deficiencies in the results or procedures.
- C. The CxA may witness all or part of the ductwork testing and cleaning procedures, sufficient to be confident that proper procedures were followed. The GC shall ensure this testing is documented and included in the O&M manuals and per the Contract Documents. The Owner's representative shall be notified of any deficiencies in the results or procedures.

3.14 NON-CONFORMANCE.

- A. The CxA will record the results of the functional test on the procedure or test form. All deficiencies or non-conformance issues shall be identified on the AL.
- B. Corrections of minor deficiencies identified may be made during the tests at the discretion of the CxA. In such cases the deficiency and resolution will be documented on the procedure form.
- C. Every effort will be made to expedite the testing process and minimize unnecessary delays, while not compromising the integrity of the procedures.

3.15 RETESTING:

- A. If a functional test procedure has been unable to be satisfactorily completed, it will need to be retested.
- B. Once the non-conformance has been resolved, the GC shall schedule test witnessing with the CxA and Owner at least 7 days in advanced.
- C. Cost of Retesting.
  - 1. The cost for the subcontractor to retest a prefunctional or functional test, if they are responsible for the deficiency, shall be theirs. If they are not responsible, any cost recovery for retesting costs shall be negotiated with the GC.
  - 2. For a deficiency identified, not related to any prefunctional checklist or start-up fault, the following shall apply: The CxA will direct the retesting of the equipment once at no additional cost. However, the Owner may charge the GC for the CxA's time for a second retest.
  - 3. The time for the CxA to direct any retesting required because a specific *prefunctional* checklist or start-up test item, reported to have been successfully completed, but determined during functional testing to be deficient, may be charged by the Owner to the GC.

3.16 DEFERRED TESTING

- A. Unforeseen Deferred Tests occur if any check or test cannot be completed due to the building structure, required occupancy condition or other deficiency, execution of checklists and functional testing may be delayed upon approval of the OR. These tests will be conducted in the same manner as the seasonal tests as soon as possible. Services of necessary parties will be negotiated.
- B. Seasonal Testing occur if any testing is delayed until the weather conditions are closer to the system's design. During the warranty period, seasonal testing shall be completed as part of this contract. The CxA shall coordinate this activity. Tests will be executed, documented and deficiencies corrected by the appropriate Subs, with facilities staff and the CxA witnessing. Any final adjustments to the O&M manuals and as-builds due to the testing will be made.

**3.17 OWNER TRAINING VERIFICATION**

- A. CxA will confirm that the training program has been completed according to the contract requirements for all new commissioned equipment. CxA will oversee the training program by performing the following activities:
1. Review the goals and objectives of each training session
  2. Review training agendas, topics and length of instruction
  3. Review instructor information and qualifications
  4. Review the training location
  5. Review attendance forms
  6. Review training materials
  7. Review how training will be archived for future use

**END OF SECTION**

# **ASBESTOS ABATEMENT CONTRACTOR BID DOCUMENT AND SPECIFICATIONS**

## **Highland Park Middle School HVAC Upgrade Project**

**7000 SW Wilson Avenue  
Beaverton, OR 97008**

Prepared for:

### **Beaverton School District**

**16550 SW Merlo Road  
Beaverton, Oregon 97006**

**Submitted:** March 21, 2019

Prepared By:



**4105 SE International Way, Suite 505  
Milwaukie, OR 97222  
503.387.3251**

TRC Project Number: **332367**

# TABLE OF CONTENTS

SECTION .....	PAGE
TABLE OF CONTENTS.....	ii
BID FORM .....	1
PART 1     GENERAL - ASBESTOS .....	3
1.01   SCOPE OF WORK .....	3
1.02   PERMITS AND COMPLIANCE.....	4
1.03   SUBMITTALS.....	5
1.04   PRE-CONSTRUCTION CONFERENCE .....	6
1.05   APPLICABLE STANDARDS AND REGULATIONS .....	7
1.06   NOTICES .....	7
1.07   ENVIRONMENTAL CONSULTANT.....	7
1.08   PERSONAL AIR SAMPLING .....	9
1.09   PROJECT SUPERVISOR.....	10
1.10   RESPIRATORY PROTECTION.....	10
1.11   DELIVERY AND STORAGE .....	10
1.12   TEMPORARY UTILITIES.....	11
PART 2     PRODUCTS .....	11
2.01   MATERIALS.....	11
2.02   TOOLS AND EQUIPMENT .....	11
PART 3     EXECUTION .....	12
3.01   GENERAL REQUIREMENTS.....	12
3.02   PROTECTIVE CLOTHING.....	13
3.03   SIGNS AND LABELS.....	13
DANGER.....	14
RQ, (WASTE) ASBESTOS, 9, NA2212, PGIII.....	14
3.04   FRIABLE ACM REMOVAL BY FULL ENCLOSURE METHOD.....	14
3.05   REMOVAL OF NON-FRIABLE ASBESTOS-CONTAINING MATERIALS .....	18
3.06   WORK AREA DECONTAMINATION AND CLEARANCE PROCEDURES.....	19
3.07   WASTE DISPOSAL .....	20

## Appendices

### Figures

- Figure 1.1 – Asbestos Abatement Materials Location Map

## Appendix A – LIMITED SUPPLEMENTAL ASBESTOS AND LEAD PAINT SURVEY REPORT

BID FORM

**1. Base Bid: Bid due date will be announced at the Job Walk**

The undersigned, having examined the proposed contract documents titled: Asbestos Abatement Contractor Bid Document and Specifications for 7000 SW Wilson Avenue in Beaverton, Oregon 97008 (Project Site), dated March 21, 2019, and having visited the site and examined the conditions affecting the work, hereby proposes and agrees to furnish all labor, materials, equipment, permits, insurance, appliances and to perform operations necessary to complete the work as required by said proposed contract documents, for that portion of the work identified in Scope of Work as "Base Bid" for the stipulated sum of:

\_\_\_\_\_ **DOLLARS (\$** \_\_\_\_\_ **)**

To be completed in \_\_\_\_\_ working days (8 hr. shifts).

**Unit Abatement Costs: Removal as ACM and disposal as applicable by regulations:**

Material	Unit	Unit Cost
Gypsum Board Wall/Ceiling Materials	Square Foot	\$/sq. ft.:
Lab Countertop	Square Foot	\$/sq. ft.:
Cove Base Glue	Linear Foot	\$/ln. ft.:
Mastic associated with Floor Tile	Square Foot	\$/sq. ft.:
Vinyl Floor Tile and Mastic	Square Foot	\$/sq. ft.:
Thermal System Pipe Insulation (Elbows)	Each	\$/ each:
Thermal System Pipe Insulation (Runs)	Linear Foot	\$/ln. ft.:
Window Glazing	Linear Foot	\$/ln. ft.:
Mobilization Cost Associated with Follow-up Abatement Services	Mobilization	\$/Mob

**BIDDER**

by \_\_\_\_\_

Address \_\_\_\_\_

Contractor License \_\_\_\_\_

License Type \_\_\_\_\_

Type of business entity:

\_\_\_\_\_



Individual partners or individuals of the firm:

---

---

---

President of Corporation \_\_\_\_\_

Secretary of Corporation \_\_\_\_\_

Corporation is organized under laws of the State of \_\_\_\_\_

Bid dated this \_\_\_\_\_ day of \_\_\_\_\_, 2018.

**END OF BID FORM**

## ASBESTOS CONTAINING MATERIALS ABATEMENT SUMMARY OF WORK

The Work includes the abatement of Asbestos Containing Materials (ACM) at 7000 SW Wilson Avenue, Beaverton, Oregon in order to prepare the site for renovation. The scope of work includes abatement and proper disposal of the asbestos containing materials identified in this document.

Base Bid: The Asbestos Abatement Contractor shall furnish all labor, materials, services, insurance (specifically covering the handling, transportation of asbestos containing material (ACM) and equipment which is specified, shown, or reasonably implied for the following abatement work.

The removal and disposal as required by applicable regulations, of the following friable and non-friable asbestos containing materials identified in the Supplemental Asbestos and Lead Paint Survey report prepared by TRC and dated March 21, 2019. The asbestos-containing materials to be abated and their general location(s) are as follows:

### Asbestos Containing Materials

Description	Material Location(s)	Friable / non-Friable	Approximate Quantity
Gypsum Board & Joint Compound Walls and Ceilings	Throughout Renovation Area – See Figures	Friable	2,200 SF
Lab Countertop	Lab Classrooms in Each wing	Non-Friable	108 SF
Vinyl Floor Tile and Mastic	Under and around HVAC Units	Non-Friable	480 SF
Pipe Insulation and Elbows	Behind HVAC Units, Within Wall/Ceiling Cavities, Mechanical Areas & HVAC Units – See Figures	Friable	800 LF
Duct Insulation & Mastic	Mechanical Areas	Friable	600 SF
Cove Base Glue – OSHA Regulated	Throughout w/ Wall & Floor Removal	Non-Friable	620 LF

## ASBESTOS

### PART 1 GENERAL - ASBESTOS

#### 1.01 SCOPE OF WORK

- A. The asbestos abatement and disturbance work related to this Project will consist of the removal and disposal of asbestos containing materials (ACM) and presumed asbestos containing materials (PACM) within portions of Highland Park Middle School located at 7000 SW Wilson Avenue in Beaverton, Oregon 97008 as part of a planned renovation project. This section is intended to provide instruction for requirements in connection with asbestos abatement or disturbance and is complementary to the other contract documents, which apply to this section by reference.
- B. For Work described in this Section, the Abatement Contractor (Contractor) shall furnish all labor, materials, equipment, tools, and any other resources necessary to complete the work in accordance with regulatory requirements and project contract documents, using best available technology and industry standard methods and procedures. The work shall include but not be limited to the removal and proper disposal of ACM and/or presumed ACM (PACM) materials as described below:

## Asbestos Containing Materials

Description	Material Location(s)	Friable / non-Friable	Approximate Quantity
Gypsum Board & Joint Compound Walls and Ceilings	Throughout Renovation Area – See Figures	Friable	2,200 SF
Lab Countertop	Lab Classrooms in Each wing	Non-Friable	108 SF
Vinyl Floor Tile and Mastic	Under and around HVAC Units	Non-Friable	480 SF
Pipe Insulation and Elbows	Behind HVAC Units, Within Wall/Ceiling Cavities, Mechanical Areas & HVAC Units – See Figures	Friable	800 LF
Duct Insulation & Mastic	Mechanical Areas	Friable	600 SF
Cove Base Glue – OSHA Regulated	Throughout w/ Wall & Floor Removal	Non-Friable	620 LF

Please refer to Appendix A, Limited Supplemental Asbestos and Lead Paint Survey Report dated, March 21, 2019, for additional and more detailed information on the asbestos materials present at the Site.

Estimated quantities are provided as an approximate guide to the Contractor. The material quantities listed above are approximations and TRC is not responsible for the accuracy of the quantities and measurements provided. The Contractor shall field verify material quantities, locations, and make themselves cognizant of existing field conditions prior to submitting bids for the work of this specification. Submitting of bids for work described herein shall take into consideration and utilize the Contractor's field measurements of materials and observations of the conditions verified on site.

- C. The Contractor shall be aware of all conditions of the Project and is responsible for verifying quantities and locations of all Work to be performed. Failure to do so shall not relieve the Contractor of its obligation to furnish all labor, equipment, and materials necessary to perform the Work.
- D. All Work shall be performed in strict accordance with the Project Documents and all governing codes, rules, and regulations. Where conflicts occur between the Project Documents and applicable codes, rules, and regulations, the more stringent requirement shall apply.
- E. Working hours shall be as required and approved by the Owner. ERM abatement activities including, but not limited to, work area preparation, gross removal activities, waste clean-up activities, waste removal, etc. may need to be performed during the specified time period by the Owner. The Contractor shall coordinate and schedule all Work with the facility and Owner's representative.

### 1.02 PERMITS AND COMPLIANCE

- A. The Contractor shall assume full responsibility and liability for compliance with all applicable Federal, State, and local laws, rules, and regulations pertaining to Work practices, protection of Workers, authorized visitors to the site, persons, and property adjacent to the Work.

- B. Perform asbestos related Work in accordance with Federal, State and Local Regulations (U.S. Environmental Protection Agency (EPA) 40 CFR 61, Occupational Health and Safety (OSHA) 29 CFR 1926 and Oregon Department of Environmental Quality (ODEQ)). Where more stringent requirements are specified, the Contractor shall adhere to the more stringent requirements.

### 1.03 SUBMITTALS

- A. Pre-Work Submittals: Within 15 calendar days prior to the pre-construction conference, the Contractor shall submit copies of the documents listed below to Beaverton School District's Environmental Consultant for review and approval prior to the commencement of asbestos abatement activities:
1. Asbestos Removal Work Plan which includes the means, methods and protective measures which will be used to comply with all applicable Federal, State and Local rules and regulations. This plan shall be completed and signed by an EPA accredited Asbestos Project Designer.
  2. Current worker and contractor/supervisor training records.
  3. Insurance Certificates
    - a. All Certificates of Insurance must name Beaverton School District as additional insured and will comply with entities noted in the contract as additional insured. These include the following:
      - Asbestos/Pollution Liability - \$1,000,000;
      - Auto Liability - \$1,000,000 per each vehicle on site;
      - Workman's Compensation and Employers Liability - \$500,000 per accident;
      - Commercial General Liability - \$1,000,000 per occurrence with \$2,000,000 general aggregate per project
      - True Umbrella Policy - \$5,000,000
    - b. All insurance will be written through companies having an A.N. rating of at least A VII or with such other companies as may reasonably be approved by Owner. All such liability insurance maintained by the Contractor or any subcontractor will include the condition that it is primary and that any such insurance maintained by Owner or any other additional insured is excess and non-contributory.
- B. On-Site Submittals: Refer to Part 3.01.C for all submittals, documentation, and postings required to be maintained on-site during abatement activities.
- C. Project Close-out Submittals: Within 30 business days of the completion of the project, the Contractor shall submit digital and hard copies of the documents listed below. The documents shall be transmitted to the Environmental Consultant for review and approval prior to the Contractor's final payment.

1. Originals of all waste disposal manifests, seals, and disposal logs.
2. OSHA personal air monitoring results conducted during the Work.
3. Daily progress log describing in detail the areas of work and ACM/PACM affected by the day's work activities and regulated work area entry/exit logs
4. Project Notifications
5. Safety Meeting Logs
6. Insurance Certificates
7. Workers Certifications and Medical Monitoring
8. Contractors Licenses

#### 1.04 PRE-CONSTRUCTION CONFERENCE

- A. Prior to start of preparatory Work under this Contract, the Contractor shall attend a pre-construction conference attended by Owner, Architect and Environmental Consultant.
- B. Agenda for this conference shall include but not necessarily be limited to:
  1. Contractor's Asbestos Removal Work Plan
  2. Environmental Consultant's duties and functions
  3. Contractor's Work procedures including:
    - a. Methods of job site preparation and removal methods
    - b. Respiratory protection
    - c. Disposal procedures
    - d. Cleanup procedures
    - e. Fire exits and emergency procedures
  4. Contractor's required pre-work and on-site submittals, documentation, and postings
  5. Contractor's plan for twenty-four (24) hour project security both for prevention of theft and for barring entry of unauthorized personnel into work areas
  6. Temporary utilities
  7. Storage of removed asbestos containing materials
  8. Waste disposal requirements and procedures, including waste manifest and container seals

- C. In conjunction with the conference the Contractor shall accompany the Owner, Architect and Environmental Consultant on a pre-construction walk-through of the Project site.

#### 1.05 APPLICABLE STANDARDS AND REGULATIONS

All asbestos related work must be performed in accordance with EPA and OSHA regulations (40 CFR 61, 29 CFR 1926) and Oregon Department of Environmental Quality. Where more stringent requirements are specified, the Contractor shall adhere to the more stringent requirements.

#### 1.06 NOTICES

- A. The Contractor shall provide notification of intent to commence asbestos abatement activities at least ten (10) working days prior to beginning abatement activities. Written notification shall be sent to the Oregon Department of Environmental Quality Department (DEQ).
- B. The Contractor shall maintain copies of notices, and provide proof of delivery and receipt.
- C. The Contractor shall be responsible for maintaining current project filings with regulatory agencies for the duration of the project.

#### 1.07 ENVIRONMENTAL CONSULTANT

- A. The Owner shall engage the services of an Environmental Consultant (the Consultant) who shall serve as the Owner's Representative in regard to the performance of the asbestos abatement Project and provide direction as required throughout the entire abatement Project period.
- B. The Contractor is required to ensure cooperation of its personnel with the Consultant for the air sampling and Project monitoring functions described in this section. The Contractor shall comply with all direction given by the Consultant during the course of the Project.
- C. The Consultant shall review and approve all Contractor submittals.
- D. The Consultant shall staff the Project with a trained and certified person(s) to act on the Owner's behalf at the job site.
  - 1. The consultant's representative shall be on-site at all times the Contractor is on-site. The Contractor shall not be permitted to conduct any Work unless the consultant's representative is on-site (except for inspection of barriers and negative air system during non-working days).
  - 2. The consultant's representative shall have the authority to direct the actions of the Contractor verbally and in writing to ensure compliance with the Project documents and all regulations. The consultant's representative shall have the authority to Stop Work when gross Work practice deficiencies or unsafe practices are observed, or when ambient fiber concentrations outside the removal area exceed 0.01 f/cc or background level.

- a. Such Stop Work order(s) shall be effective immediately and remain in effect until corrective measures have been taken and the situation has been corrected.
  - b. Standby time required to resolve the situation shall be at the Contractor's expense.
3. The consultant's representative shall provide the following services:
  - a. Inspection of the Contractor's Work, practices, and procedures, including temporary protection requirements, for compliance with all regulations and Project specifications including provisions required by Variances, the Work Place Safety Plan and Asbestos Work Permit.
  - b. Provide abatement Project air sampling as required by applicable regulations and the Owner. Sampling will include background, work area preparation, asbestos handling, final cleaning and clearance air sampling.
  - c. Verify daily that all Workers used in the performance of the Project are certified by the appropriate regulatory agency.
  - d. Monitor the progress of the Contractor's Work, and report any deviations from the schedule to the Owner.
  - e. Monitor, verify, and document all waste load-out operations.
  - f. Verify that the Contractor is performing personal air monitoring daily, and that results are being returned and posted at the site as required.
  - g. The consultant's representative shall maintain a log on site that documents all project related and Consultant and Contractor actions, activities, and occurrences.
4. The following minimum inspections shall be conducted by the consultant's representative. Additional inspections shall be conducted as required by Project conditions. Progression from one phase of Work to the next by the Contractor is only permitted with the written approval of the consultant's representative.
  - a. Pre-Construction Inspection: The purpose of this inspection is to verify the existing conditions of the Work Areas and to document these conditions.
  - b. Pre-Commencement Inspection: The purpose of this inspection is to verify the integrity of each containment system prior to disturbance of any asbestos containing material. This inspection shall take place only after the Work Area is fully prepped for removal.
  - c. Work Inspections: The purpose of this inspection is to monitor the Work practices and procedures employed on the Project and to monitor the continued integrity of the containment system. Inspections within the removal areas shall be conducted by the consultant's representative during all preparation, removal, and cleaning activities at least twice every Work shift. Additional inspections shall be conducted as warranted.

- d. Pre-Encapsulation Inspection: The purpose of this inspection is to ensure the complete removal of ACM and/or PACM, from all surfaces in the Work Area prior to encapsulation.
  - e. Visual Clearance Inspection: The purpose of this inspection is to verify that: all materials in the scope of work have been properly removed; no visible asbestos debris/residue remains; no pools of liquid or condensation remains; and all required cleanings are complete. This inspection shall be conducted before final air clearance testing.
  - f. Post-Clearance Inspection: The purpose of this inspection is to ensure the complete removal of ACM, including debris, from the Work Area after satisfactory final clearance sampling and removal of all isolation and critical barriers and equipment from the Work Area.
- E. The Consultant shall provide abatement Project air sampling and analysis as required by applicable regulations. Sampling will include background, work area preparation, asbestos handling, and final cleaning and clearance air sampling.
- 1. Unless otherwise required by applicable regulations, the Consultant shall have samples analyzed by Phase Contrast Microscopy (PCM) for daily area and final clearance air monitoring during asbestos removal or disturbance work. Results shall be available at the Project site within 2 hours of completion of sampling. Should TEM analysis be requested/required, results will be provided within 24 hours of receipt of samples by the accredited laboratory.
  - 2. Samples shall be collected as required by applicable regulations and these specifications.
  - 3. If the air sampling during any phase of the abatement project reveals airborne fiber levels at or above .01 fibers/cc or the established background level, whichever is greater, outside the regulated Work Area, Work shall stop immediately and corrective measures required by applicable regulations shall be initiated. Notify all employers and occupants in adjacent areas. The Contractor shall bear the burden of any and all costs incurred by this delay.
  - 4. At the completion of each abatement phase, the Consultant shall prepare an interim certificate of completion for project records.

#### 1.08 PERSONAL AIR SAMPLING

- A. The Contractor shall perform appropriate personal air monitoring in accordance with 29 CFR 1926.1101, every Work shift in each Work Area during which abatement activities occur in order to determine that appropriate respiratory protection is being worn and utilized.
- B. The Contractor shall conduct air sampling that is representative of both the 8-hour time weighted average and 30-minute short-term exposures to indicate compliance with the permissible exposure and excursion limits.



- C. The Contractor's laboratory analysis of air samples shall be conducted by laboratory accredited by the American Industrial Hygiene Association (AIHA) for PCM analysis.
- D. Results of personnel air sample analyses shall be available within 5 business days of sample collection.

#### 1.09 PROJECT SUPERVISOR

- A. The Contractor shall designate a full-time Project Supervisor who shall meet the following qualifications:
  - 1. The Project Supervisor shall hold an Asbestos Hazard Emergency Response Act (AHERA) certification as an Asbestos Contractor/Supervisor.
  - 2. The Project Supervisor shall meet the requirements of a "Competent Person" as defined by OSHA 1926.1101 and shall have a minimum of one year experience as a supervisor.
  - 3. The Project Supervisor must be able to speak, read, and write English fluently, as well as communicate in the primary language of the Workers and immediate community.
- B. The Project Supervisor shall be responsible for the performance of the Work and shall represent the Contractor in all respects at the Project site. The Supervisor shall be the primary point of contact for the Asbestos Project Monitor.

#### 1.10 RESPIRATORY PROTECTION

- A. Select respirators from those approved by the National Institute for Occupational Safety and Health (NIOSH), Department of Health and Human Services.
- B. High Efficiency Particulate Air (HEPA) respirator filters shall be approved by NIOSH and shall conform to the OSHA requirements in 29 CFR 1910.134 and 29 CFR 1926.1101.
- C. A storage area for respirators shall be provided by the Contractor in the clean room side of the personnel decontamination enclosure where they will be kept in a clean environment.
- D. The Contractor shall provide and make available a sufficient quantity of respirator filters so that filter changes can be made as necessary during the work day. Filters used with negative pressure air purifying respirators shall be changed regularly to comply with OSHA.
- E. Any visitor, Worker, or supervisor found in the Work Area not wearing the required respiratory protection shall be removed from the Project site.

#### 1.11 DELIVERY AND STORAGE

- A. Store all materials at the job site in a suitable and designated area.
  - 1. Store materials subject to deterioration or damage away from wet or damp surfaces and under cover.

2. Protect materials from unintended contamination and theft.
  3. Storage areas shall be kept clean and organized.
- B. Remove damaged or deteriorated materials from the job site. Materials contaminated with asbestos shall be disposed of as asbestos debris.

#### 1.12 TEMPORARY UTILITIES

- A. Shut down and lock out all electrical power to the asbestos Work Areas.
- B. Provide temporary electric service with Ground Fault Circuit Interrupters (GFCI) for all electric requirements within the asbestos Work Area.
- C. Provide temporary lighting with "weatherproof" fixtures for all Work Areas.
- D. Utilize domestic water service, if available, from Owner's existing system. Provide hot water heaters with sufficient capacity to meet Project demands.

### PART 2 PRODUCTS

#### 2.01 MATERIALS

- A. All materials shall be delivered to the job site in the original packages, containers, or bundles bearing the name of the manufacturer, the brand name and product technical description, with Safety Data Sheets (SDSs) as applicable.
- B. No damaged or deteriorating materials shall be used. If material becomes contaminated the material shall be decontaminated or disposed of as asbestos-containing waste material. The cost to decontaminate and dispose of this material shall be at the expense of the Contractor.
- C. Fire retardant polyethylene sheet shall be in roll size to minimize the frequency of joints, with factory label indicating no less than six (6) mil thickness.
- D. Polyethylene disposable bags shall be no less than six (6) mils thick.
- E. A commercial grade duct tape (or equivalent) capable of sealing joints in adjacent polyethylene sheets and for the attachment of polyethylene sheets to finished or unfinished surfaces must be capable of adhering under both dry and wet conditions.
- F. Any planking, bracing, shoring, barricades and/or temporary sheet piling, necessary to appropriately perform work activities shall conform to all applicable federal, state and local regulations.

#### 2.02 TOOLS AND EQUIPMENT

The Contractor shall provide tools and equipment that are suitable for asbestos related activities and in good working order.

## PART 3 EXECUTION

### 3.01 GENERAL REQUIREMENTS

- A. The following submittals, documentation, and postings shall be maintained on-site by the Contractor during abatement activities:
  - 1. Asbestos worker and contractor/supervisor certification cards for each person employed in the removal, handling, or disturbance of asbestos
  - 2. Daily OSHA personal air monitoring results
  - 3. Project documents (specifications and drawings)
  - 4. Applicable regulations
  - 5. Safety Data Sheets of supplies/chemicals used on the Project
  - 6. Approved Abatement Work Plan
  - 7. List of emergency telephone numbers
  - 8. Daily Project Log
- B. The following documentation shall be maintained on-site by TRC Environmental Corp. during abatement activities:
  - 1. Air sample results
  - 2. Project Monitor Daily Log
  - 3. Asbestos Survey Report
  - 4. A copy of ASTM Standard E1368 "Standard Practice for Visual Inspection of Asbestos Abatement Projects"
- C. Install emergency exit signage and fire extinguishers throughout the Work Area in accordance with OSHA Construction Industry Standards.
- D. Use the following engineering controls and work practices for all asbestos abatement operations, regardless of measured exposure levels:
  - 1. Vacuum cleaners equipped with HEPA filters to collect all asbestos-containing dust and debris

2. Wet methods to control exposures during asbestos removal and clean-up, except where proven to be infeasible
  3. Prompt clean-up and disposal of asbestos-contaminated wastes and debris in leak-proof containers
- E. Do not use any of the following equipment or work practices during asbestos abatement operations, regardless of measured exposure levels:
1. High-speed abrasive disc saws not equipped with point-of-cut HEPA ventilation or HEPA filtered exhaust air enclosures
  2. Blowing with compressed air to remove asbestos-containing materials
  3. Dry sweeping, shoveling, or other dry methods to clean up asbestos-containing dust and debris
  4. Employee rotation as a means of reducing employee exposure to asbestos
- F. Protect adjacent areas, materials and surfaces from damage due to demolition operations, including but not necessarily limited to the following:
1. Water damage
  2. Dirt, dust and debris
  3. Abrasion
  4. Cuts and scratches
  5. Holes from fasteners for temporary barriers

### 3.02 PROTECTIVE CLOTHING

- A. Provide personnel utilized during the Project with disposable protective whole body clothing, head coverings, gloves and foot coverings. Provide disposable plastic or rubber gloves to protect hands. Cloth gloves may be worn inside the plastic or rubber for comfort, but shall not be used alone. Make sleeves secure at the wrists and make foot coverings secure at the ankles by the use of tape, or provide disposable coverings with elastic wrists or tops.
- B. Authorized visitors shall be provided with suitable protective clothing, headgear, eye protection, and footwear whenever they enter the Work Area.

### 3.03 SIGNS AND LABELS

- A. Provide warning signs and barrier tapes at all approaches to asbestos Work Areas. Locate signs at such distance that personnel may read the sign and take the necessary protective steps required before entering the area.

1. Provide danger signs in vertical format conforming to 29 CFR 1926.1101, minimum 20" x 14" displaying the following legend.

ASBESTOS CANCER AND LUNG DISEASE  
HAZARD  
AUTHORIZED PERSONNEL ONLY  
RESPIRATORS AND PROTECTIVE CLOTHING  
ARE REQUIRED IN THIS AREA

2. Provide 3" wide OSHA-Approved barrier tape printed with black lettered, "DANGER ASBESTOS REMOVAL". Locate barrier tape across all corridors, entrances and access routes to asbestos Work Area. Install tape 3' to 4' Above Finished Floor AFF.

- B. Provide asbestos danger labels affixed to all asbestos materials, scrap, waste, debris and other products contaminated with asbestos.

1. Provide asbestos danger labels of sufficient size to be clearly legible, displaying the following legend:

DANGER  
CONTAINS ASBESTOS FIBERS  
AVOID CREATING DUST  
CANCER AND LUNG DISEASE HAZARD

2. Provide the following asbestos labels, of sufficient size to be clearly legible, for display on waste containers (bags or drums) which will be used to transport asbestos contaminated material in accordance with United States Department of Transportation 49 CFR Parts 171 and 172: (Note: Include "RQ" for friable asbestos waste only.)

RQ, (WASTE) ASBESTOS, 9, NA2212, PGIII

3. Generator identification information shall be affixed to each waste container indicating the following printed in indelible ink:  
Generator Name  
Facility Name  
Facility Address  
EPA Generator ID Number

### 3.04 FRIABLE ACM REMOVAL BY FULL ENCLOSURE METHOD

#### A. Preparation of the Work Area

1. Install critical barriers over each opening into the regulated area. The following requirements are in addition to, not in lieu of, other indicated surface and object protection requirements:
  - a. Seal each opening between the work area and adjacent areas with not less than 2 layers of 6-mil polyethylene sheeting. Use an expanding-polyurethane foam gun to seal areas with large numbers of pipes, conduits and beams. Openings include,

- but are not necessarily limited to, windows, skylights, doorways, elevator hoist way openings, corridor entrances, drains, ducts, grills, grates, and diffusers.
- b. Seal intake and exhaust vents and duct seams within the regulated area with not less than 2 layers of 6-mil polyethylene sheeting.
  2. HVAC System Shutdown: Owner's maintenance personnel will shut down heating, cooling, and air conditioning systems when necessary. Coordinate scheduling with Owner's personnel.
  3. Protection of Surfaces and Objects: The following requirements are in addition to, not in lieu of, indicated work area sealing requirements. Cover the following surfaces and objects as follows:
    - a. Protect all surfaces beneath all removal activity. Remove moveable objects from the work area, and cover fixed objects with impermeable drop cloths or plastic sheeting with edges securely sealed with tape.
    - b. Provide clean, fresh air to mechanical equipment, where required to maintain proper performance of equipment.
    - c. Fully pre-clean all covered surfaces with amended water and a HEPA vacuum.
    - d. Cover walls with not less than 2 layers of 6-mil polyethylene sheeting. Construct free-standing enclosure walls of not less than 6-mil polyethylene sheeting, with supports spaced not more than 3 feet on center.
    - e. Cover floors with not less than 2 layers of 6-mil polyethylene sheeting. Avoid seams where possible. If seams are necessary, overlap not less than 12 inches and tape joints. Extend sheeting 12 inches up the side walls leaving no seams at the wall and floor joint. Immediately repair punctures and leaks, and clean up seepage.
  4. Cleaning: Do not use cleaning methods that raise dust, such as sweeping or using vacuum cleaners not equipped with HEPA filters. Do not disturb asbestos materials during pre-cleaning phases. Treat water removed from the enclosure as asbestos contaminated waste. Fully seal floor drains.
  5. Deactivate or install ground-fault circuit interrupters on each electrical circuit within the enclosure.
  6. Construct a three-chambered decontamination facility that is adjacent to and connected to the regulated area, and that consists of a dirty room, a shower room, and a clean room in series. Construct decontamination facilities that are exposed to weather of lumber and exterior grade plywood. Secure the facility when not in use.
    - a. Supply the equipment room with properly labeled, impermeable bags and containers for the containment and disposal of contaminated protective equipment.

- b. Construct showers that comply with the requirements of 29 CFR 1910.141 (d) (3), with the shower room adjacent to both the equipment room and the clean room. Filter water waste and shower water through a 5 micron filter, or remove water from site as asbestos waste.
  - c. Equip the clean room with a locker or appropriate storage container for each employee.
7. Employee Decontamination Facilities
- a. Access the work area only through an approved decontamination system. Lock or block other entrances. Seal emergency exits (for use during a fire or accident) with polyethylene sheeting and tape.
  - b. Seal the waste pass-out, except during the removal of asbestos waste from the enclosure.
  - c. Entrance to The Regulated Area: Employees shall enter the decontamination area through the clean room, remove and store clothing, and put on protective clothing and respiratory protection before passing through to the equipment room.
  - d. Exit from The Regulated Area: Employees shall exit the regulated area by removing gross contamination and debris from their protective clothing. The clothing shall be removed and disposed of in the equipment room into labeled impermeable bags or containers. Employees shall then shower and enter the clean room before changing into street clothes.
8. Local Exhaust Ventilation: Maintain portable air filtration units with a HEPA filter in use during asbestos abatement operations requiring enclosures. Units shall conform to OSHA Standard 1926.1101, Appendix F, and shall be designed in accordance with 40 CFR 61, Subpart M, Section 61.153.
- a. Exhaust directly to building exterior. Provide a backup portable air filtration unit at each removal enclosure. Startup ventilation units prior to initiating asbestos removal operations and run until the Owner's consultant has approved their shut-down after cleaning, visual inspection, clearance sampling and tear-down.
  - b. Direct air movement within the enclosure away from the employees' work area and toward the air filtration device.
  - c. Provide not less than 4 air changes per hour within the enclosure.
  - d. Within the enclosure, through the period of its use, maintain a pressure differential of not less than minus 0.02 water gage with respect to ambient conditions outside the enclosure. Provide continuous measurement of the pressure differential at each negative pressure enclosure.
9. Visually inspect the enclosure for breeches and smoke-test for leaks before work begins, and before the start of each work shift. Make all modifications to the enclosure prior to starting removal work.

B. Work Practices

1. Immediately preceding asbestos removal, apply a fine mist of water to the asbestos materials and the surrounding area. Keep surrounding areas wet by spraying periodically with amended water. Maintain a high humidity environment to assist in fiber settling.
2. Remove asbestos material using two-person teams, on staging platforms, if necessary.
3. Remove the wet asbestos material as intact sections or components. Carefully lower the material to the floor or place directly into container. Never drop or throw asbestos material on the floor.
4. At working heights between 15 and 50 feet above the floor, place removed asbestos materials in containers at the elevated levels and lower to floor, or place onto inclined chutes or scaffolding for subsequent collection and placement into containers. Clean all debris at the completion of each workday.
5. Once the asbestos material is at ground level, pack in labeled 6-mil polyethylene bags, wet and, if appropriate, hold in drums prior to starting the next section.
6. Use 2 sealed and labeled 6-mil thick bags for storage and transportation of asbestos waste. Standing water shall be in each bag
7. Wrap large components removed intact in two layers of 6-mil polyethylene sheeting, label, and secure with tape for transport to the landfill. Comply with all wetting requirements.
8. Treat wires, hangers, steel bands, nails, screws, metal lath, tin sheeting, and similar sharp objects removed with asbestos material as asbestos waste. Place in drums for disposal.
9. Label containerized asbestos waste in accordance with OSHA, EPA, and Department of Transportation regulations, as follows:
  - a. Label each container with OSHA label that contains the following information:

**DANGER  
CONTAINS ASBESTOS FIBERS  
AVOID CREATING DUST  
CANCER AND LUNG  
DISEASE HAZARD**

- b. Label each container with Owner's and Asbestos Abatement Firm's names and addresses as required by NESHAP.
  - c. Label each container with Class 9 Label required by DOT and identify waste as "RQ, Asbestos NA 2212."



10. Remove containerized asbestos waste daily from site, or store on site in a locked or secured location until ready for final disposal. Obtain approval of Owner's Representative of the location of disposal containers. Outdoor waste containers shall be fully enclosed and locked. Mark vehicles used to transport waste during the loading and unloading of asbestos waste with a visible sign, as required by NESHAP.

### 3.05 REMOVAL OF NON-FRIABLE ASBESTOS-CONTAINING MATERIALS

#### A. Removal of Vinyl Floor Tile (unless rendered Friable)

1. Prior to removal, critical barriers shall be placed over openings to the regulated area.
2. Prior to removal, clean floors of dirt and debris with vacuums equipped with HEPA filter.
3. Sanding the floor or related backing is not permitted.
4. Mechanical chipping of vinyl floor tile is prohibited, except when performed in a negative pressure enclosure.
5. Thoroughly wet vinyl floor tile with water. Use a slip scraper or equivalent to loosen the floor tile from the floor. Remove the floor tile in an intact state. Keep the floor tile wet throughout the removal and cleanup.
6. Place the resilient flooring material and debris in an asbestos disposal bag. Seal the bag and place it in a properly labeled drum. Comply with the disposal and labeling requirements of this document.

#### B. Asbestos Mastic Removal

1. Prior to removal, critical barriers shall be placed over openings to the regulated area.
2. Clean the floor of all debris using a HEPA vacuum, wet sweeping, mopping or equivalent.
3. Remove as much mastic as possible using a Consultant approved solvent. Control odors and fumes with engineering controls.
4. Perform scraping of residual adhesive using wet methods.
5. After all debris is removed, thoroughly mop the floor and allow time to dry.
6. Properly dispose of all asbestos and solvent waste according to all applicable regulations, and comply with the disposal and labeling requirements of this Section.

#### C. Asbestos-Containing Siding and Transite Panels

1. Create a regulated work area and place impermeable drop cloths on surfaces beneath removal activity.

2. Cutting, abrading, or breaking material is not permitted.
3. Wet material with water prior to removal.
4. Carefully disassemble material such a manner as to prevent breakage.
5. Wrap and seal material in two layers 6-mil thick polyethylene, asbestos disposal bags, or equivalent. Seal bags or packages and properly label them with appropriate asbestos warning signs.

D. Non-Friable Asbestos Containing Exterior Sealant, Caulk, Putty and Window Glazing

1. Create a regulated work area and place impermeable drop cloths on surfaces beneath removal activity.
2. Any existing loose material shall be HEPA vacuumed prior to removal.
3. The material shall be thoroughly wetted prior to and during its removal.
4. The material should be removed as intact as possible. Manual methods shall be used.
5. Removed ACM shall be immediately bagged.
6. The removal of windows and other whole building components without disturbing the asbestos is encouraged.
7. If the material becomes friable during the abatement process, comply with the requirements for friable asbestos removal.

### 3.06 WORK AREA DECONTAMINATION AND CLEARANCE PROCEDURES

- A. The Asbestos Abatement Contractor's representative, in presence of Owner's consultant, shall inspect the entire work area for asbestos.
- B. If any suspect asbestos dust or debris is found, repeat final cleaning operation, until the visual inspection is satisfactory to the Owner's consultant.
- C. After final visual clearance criteria have been achieved in the work areas, the Owner's consultant will notify the Abatement Contractor to encapsulate all walls, floors, ceilings, other exposed surfaces, and decontamination facilities.
- D. Clearance air sampling will be completed by the Owner's consultant after the encapsulant has dried. Any costs associated with re-cleaning due to failed clearance results will be the sole responsibility of the Abatement Contractor. All clearance air samples shall be at or below 0.01 fibers per cubic centimeter as measured using Phase Contrast Microscopy (NIOSH 7400 method) or below 70 structures per square millimeter by Transmission Electron Microscopy (TEM) using the AHERA analytical method.

- E. After abatement clearance is given by the Asbestos Project Monitor the Abatement Contractor may remove the containment, which shall be disposed of as ACM.

### 3.07 WASTE DISPOSAL

- A. All waste will be transported and disposed of in compliance with DOT requirements and all applicable Federal, State and local regulations. Disposal must occur at an acceptable landfill accompanied by a waste manifest.
- B. A copy of all waste manifests shall be given to Owner upon completion of the project.

## FIGURES



**LEGEND**

- PIPE INSULATION AND DUCT INSULATION ABATEMENT
- COUNTERTOP ABATEMENT
- FLOOR TILE AND MASTIC WITH WALL ABATEMENT
- GYPSUM BOARD AND JOINT COMPOUND WALL / CEILING MATERIAL ABATEMENT

FIGURE NUMBER

1

ASBESTOS ABATEMENT MATERIAL LOCATION MAP

Highland Park Middle School  
7000 SW Wilson Avenue  
Beaverton, Oregon 97008

4105 SE International Way  
Suite 505  
Milwaukie, OR 97222  
C: 503-407-0734  
F: 503-762-6882



March 2019

332367

SC

MC

RL

DATE

PROJECT NO.

DRAWN BY

CHECKED BY

CHECKED BY

## **APPENDIX A**

### **LIMITED SUPPLEMENTAL ASBESTOS AND LEAD PAINT SURVEY REPORT**

**Highland Park Middle School**

**7000 SW Wilson Avenue**

**Beaverton, Oregon 97008**

**Dated: March 21, 2019**

# **LIMITED SUPPLEMENTAL ASBESTOS AND LEAD PAINT SURVEY REPORT**

## **Highland Park Middle School**

**7000 SW Wilson Avenue  
Beaverton, OR 97008**

Prepared for:

### **Beaverton School District**

**16550 SW Merlo Road  
Beaverton, OR 97006**

**Inspection Dates:** March 6, 2019

**Report Prepared:** March 21, 2019

Prepared By:



**4105 SE International Way, Suite 505  
Milwaukie, OR 97222  
503.387.3251**

TRC Project Number: 332367

## TABLE OF CONTENTS

EXECUTIVE SUMMARY .....	1
BACKGROUND.....	3
<i>Asbestos Containing Materials</i> .....	3
<i>OSHA Regulated Materials</i> .....	3
<i>Asbestos Sampling and Analytical Procedures</i> .....	3
<i>Lead-based and Lead-containing Paints</i> .....	4
ASBESTOS FINDINGS & RECOMMENDATIONS .....	4
LEAD PAINT FINDINGS & RECOMMENDATIONS .....	6
RECOMMENDATIONS .....	7
DISCLAIMER .....	7

### Appendices

- Appendix A – Figures
- Appendix B – Laboratory Analytical Data Sheets
- Appendix C – Inspector Certification(s)



## **EXECUTIVE SUMMARY**

TRC Environmental Corporation (TRC) was contracted by the Beaverton School District to conduct a supplemental asbestos and lead paint survey, including collection of bulk asbestos samples, laboratory analysis, and preparation of a report for Highland Park Middle School located at 7000 SW Wilson Avenue in Beaverton, Oregon 97008. Mr. Matt Cuda, AHERA accredited building inspector and Mr. Ron Landolt, lead risk assessor, performed the survey on March 6<sup>th</sup>, 2019. The survey activities included the review of prior sampling documentation and reports provided by the District, inspection and assessment of accessible suspect building materials, collection of bulk samples of suspect asbestos containing building materials that had previously not been sampled, and submission of bulk samples for laboratory analysis.

### **ASBESTOS MATERIAL SUMMARY**

Suspect asbestos containing building materials were sampled and submitted under the chain-of-custody (COC) protocol to an accredited laboratory for polarized light microscopy (PLM) bulk sample analysis. Inspection, sampling and analytical procedures were performed in general accordance with the U.S. Environmental Protection Agency's (EPA's) National Emission Standards for Hazardous Air Pollutants (NESHAP) EPA 40 CFR 61 Subpart M, the EPA Asbestos Hazard Emergency Response Act (AHERA) 40 CFR Part 763, and Federal Occupational Safety and Health Administration (OSHA) 29 CFR 1926.1101 guidelines.

The following materials sampled during this investigation and prior investigations were identified as asbestos containing materials:

- Black Lab Countertops
- Gypsum Wallboard/ Joint Compound (Previously Sampled)
- Vinyl Floor Tile (Previously Sampled)
- Boiler Door Insulation (Previously Sampled)
- Hard Fittings on Fiberglass Pipe Insulation (Previously Sampled)
- Mag Block Insulation (Previously Sampled)
- Mag Pipe Insulation (Previously Sampled)
- Exterior Window Caulk (Previously Sampled)
- Cove Base Mastic (Previously Sampled)
- Mastic (Splash Guards) (Previously Sampled)
- Window Glazing Compound (Previously Sampled)
- Ceramic Tile Mastic, Brown (Previously Sampled)
- Ceramic Tile Grout, White (Previously Sampled)
- Pipe Insulation (Previously Sampled)
- Duct Felt Tape (Previously Sampled)
- Air Cell Duct Insulation (Previously Sampled)

The following materials sampled during this investigation and prior investigations were identified as OSHA Regulated Materials (OSHA):

- Brown Cove Base Glue

Additionally, any materials uncovered during renovation activities that are not addressed in this inspection report or prior reports for the building are considered presumed asbestos containing

materials and must be sampled by an accredited asbestos inspector prior to disturbance, or they must be treated as asbestos containing.

### **LEAD PAINT/GLAZING MATERIAL SUMMARY**

Lead-based paint (LBP) is defined by the United States Department of House and Urban Development (HUD) as any paint, varnish, stain, or other applied coating that has one mg/cm<sup>2</sup> or more of lead or 0.5% by weight (5,000 micrograms per gram [µg/g] or 5,000 parts of lead per million [ppm]). The United States' Consumer Product Safety Commission (CPSC) banned lead paint in 1977 in residential properties and public buildings (16 Code of Federal Regulations 1303). According the Oregon Occupational Safety and Health Division's (OR OSHA) Program Directive, Lead: Exposure in Construction, "For all occupational exposure to lead occurring in the course of construction work, the standard (1926.62) does not specify a minimum amount or concentration of lead that triggers a determination that lead is present and the potential for occupational exposure exists. Therefore any paint containing less than one (1) mg/cm<sup>2</sup>, but greater than the laboratory or XRF detection limit is considered to be a lead-containing paint.

The paint chip sample collected in conjunction with this survey contained lead in concentrations above the laboratory limits, however it is not considered to be a lead-based paint.

Based on applicable federal and state regulations, all identified and/or assumed lead-paints/glazing must be handled and disposed of by trained personnel. In general, demolition contractors are trained to remove, handle and dispose of lead paints/glazing.

## INTRODUCTION

A supplemental asbestos and lead paint survey was conducted by TRC at Highland Park Middle School, located at 7000 SW Wilson Avenue in Beaverton, Oregon. It was reported by the client that this limited hazardous materials survey is being conducted in conjunction with their HVAC renovation project. The survey activities were performed on March 6<sup>th</sup>, 2019, and included the review of prior sampling documentation and reports as well as the inspection, assessment and bulk sampling of suspect asbestos containing building materials that had not previously been sampled. Sample locations are presented on the Sample Location Diagrams in Appendix A.

Mr. Matt Cuda, AHERA accredited building inspector and Mr. Ron Landolt, lead risk assessor, conducted the survey inspection and sampling activities. Copies of training certificates and state licenses (where applicable) are presented in Appendix C, Inspector Certifications.

## BACKGROUND

### Asbestos Containing Materials

The United States Environmental Protection Agency (EPA) define an asbestos-containing material (ACM) as any material containing more than one percent (>1.0%) asbestos by weight. In addition, ACMs are designated as:

Friable asbestos - material which can be crumbled, pulverized or reduced to powder by hand pressure, a.k.a. Regulated Asbestos Containing Materials (RACM).

Category I Non-friable - includes resilient floor coverings, asphalt roofing products, gaskets and packing.

Category II Non-friable - any non-friable ACM that is not in Category I (i.e. Asbestos-cement (Transite) siding or roofing material).

### OSHA Regulated Materials

The Occupational Safety and Health Administration (OSHA) regulates all materials containing any detectable level of asbestos by weight, including those materials containing 1.0% or less.

### Asbestos Sampling and Analytical Procedures

Representative bulk samples of suspect asbestos-containing building materials were randomly collected from the interior of the building. Homogenous material determination was based on the following criteria:

- Similar physical characteristics (same color and texture, etc.),
- Application (sprayed or trowel-on, assembly into a system, etc.),
- Material function (thermal insulation, floor tile, wallboard system, etc.).

The bulk samples were collected, labeled, and shipped to the certified analytical laboratory under proper COC documentation, and condition and approximate quantity assessments were performed by the accredited inspector during the inspection. Laboratory services were provided by EMC Labs, Inc., in Phoenix, Arizona, a National Voluntary Laboratory Accreditation Program (NVLAP code #101424-0).

Bulk samples were analyzed by PLM utilizing the EPA's Test Methods: Methods for the Determination of Asbestos in Bulk Building Materials (EPA 600/R-93/116, July 1993) and the McCrone Research Institute's The Asbestos Particle Atlas as method references.

Analysis by PLM was performed by visual observation of the bulk sample and slides prepared of the bulk sample for microscopic examination and identification. The samples were analyzed for asbestos (Chrysotile, Amosite, Crocidolite, Anthophyllite, and Actinolite/Tremolite), fibrous non-asbestos constituents (mineral wool, cellulose, etc.) and non-fibrous constituents. Using a stereoscope, the microscopist visually estimates the relative amounts of each constituent by determining the estimated area of the asbestos compared with the area estimate of the total sample.

#### Lead-based and Lead-containing Paints

Lead-based paint (LBP) is defined by the United States Department of Housing and Urban Development (HUD) as any paint, varnish, stain, or other applied coating that has one (1) mg/cm<sup>2</sup> or more of lead or 0.5% by weight (5,000 micrograms per gram [µg/g] or 5,000 parts of lead per million [ppm]).

According the Occupational Safety and Health Division's (OSHA) Program Directive, Lead: Exposure in Construction, "For all occupational exposure to lead occurring in the course of construction work, the standard (1926.62) does not specify a minimum amount or concentration of lead that triggers a determination that lead is present and the potential for occupational exposure exists. Therefore any paint containing less than one (1) mg/cm<sup>2</sup>, but greater than the laboratory detection limit is considered to be a lead-containing paint.

Laboratory services were provided by EMC Labs, Inc., in Phoenix, Arizona, a National Voluntary Laboratory Accreditation Program (NVLAP) certified laboratory (NVLAP code #101926-O). Paint Chip samples were analyzed by EPA Method 7420.

## ASBESTOS FINDINGS & RECOMMENDATIONS

The following table presents the location and quantities of each suspect building material identified and sampled during this survey as well as all applicable analytical results:

Sample No.	Material	Sample Location	Asbestos Content	Approximate Quantity
HPMS-01A HPMS-01B HPMS-01C	Gray Duct Seam Mastic	Mechanical Room Above C-16	ND	N/A
HPMS-02A HPMS-02B HPMS-02C	Countertop Glue, Yellow	Throughout C Hallway	ND	N/A
HPMS-03A HPMS-03B HPMS-03C	Lab Countertop	Throughout Lab Classrooms	20% Chrysotile	2,160 SF
HPMS-04A HPMS-04B HPMS-04C	Brown Cove Base and Associated Brown Glue	Throughout	Cove – ND Glue – <1% Tremolite	1,800 LF

ND = Non-detect

SF = Square feet

LF = Linear Feet

N/A = Not Applicable

Sample No.	Material	Sample Location	Asbestos Content	Approximate Quantity
HPMS-05A HPMS-05B HPMS-05C	Countertop Glue, Yellow	Throughout B Hallway	ND	N/A
HPMS-06A HPMS-06B HPMS-06C	Countertop Glue, Yellow	Throughout A Hallway	ND	N/A

ND = Non-detect

SF = Square feet

LF = Linear Feet

N/A = Not Applicable

### Asbestos Containing Materials (ACMs)

Asbestos was detected in the following materials sampled during this and prior investigations:

Material	Approximate Location(s)	Approximate Quantity
Lab Countertop	Throughout Lab Classrooms	<b>2,160 SF</b>
Gypsum Wallboard/ Joint Compound	Throughout	Unknown – Prior Report
Vinyl Floor Tile	Classroom 3	Unknown – Prior Report
Boiler Door Insulation	Boiler Room	Unknown – Prior Report
Hard Fittings on Fiberglass Pipe Insulation	Throughout	Unknown – Prior Report
Mag Block Insulation	Boiler Room, Tunnel System	Unknown – Prior Report
Mag Pipe Insulation	Boiler Room, Tunnel System	Unknown – Prior Report
Exterior Window Caulk	C13	Unknown – Prior Report
Cove base Mastic	C13	Unknown – Prior Report
Mastic (Splashguards)	C13	Unknown – Prior Report
Window Glazing Compound	C13	Unknown – Prior Report
Ceramic Tile Mastic	Boys Restroom 3	Unknown – Prior Report
Ceramic Tile Grout, White	Boys Restroom 3	Unknown – Prior Report
Duct Felt Tape	Mechanical Loft	Unknown – Prior Report
Air Cell Duct Insulation	Room B-14	Unknown – Prior Report

### OSHA Regulated Materials (<1.0%)

Material	Approximate Location(s)	Approximate Quantity
Brown Cove Base and Associated Brown Glue	Throughout	<b>1,800 LF</b>

### Non-Detect Materials (ND)

Asbestos was not detected in the following materials sampled during this investigation:

Material	Location
Gray Duct Seam Mastic	Mechanical Room Above C-16
Countertop Glue, Yellow	Throughout C Hallway
Countertop Glue, Yellow	Throughout B Hallway
Countertop Glue, Yellow	Throughout A Hallway
Glued- On Ceiling Tiles, 1' x 1' random fissures with brown mastic	A Hallway, B Hallway, C Hallway, A10, C13, CR 1, Main Lobby, Music Room,
Hard Fitting Insulation	Attic above workroom
Silver Paint	Boiler Room

Material	Location
Gasket	Boiler Room
End Cap	Boiler Room
Boiler Insulation	Boiler Room
Built-up Roofing (asphaltic)	Cafeteria, Gymnasium, Main Roof
Paneling	Cafeteria
Cove Base Mastic	Classroom 3, Classroom 7, Office A203, Reception
Caulk	Classroom 3 and 4
Miscellaneous Curtain	CR 3 and CR 4
Miscellaneous Grout	CR 3
Lay-in Ceiling Tile	CR 3, Office A203
Settled Dust	Hallway by Kitchen
Fire Brick	Boiler Room
Formica Countertop Glue	C13
Wainscot Mastic	C13
Roof Penetration Sealant	Main Roof Center
Sheet Floor Covering	Reception
Formica	Room B-10
Countertop	Room B-14

Due to the Site being an occupied building at the time of the inspection and sampling, a full destructive investigation for concealed materials was not performed. Hidden building materials (e.g., old floor mastic patches hidden under carpeting, chalkboard mastic, mirror mastic, wood paneling mastic, etc.), other than those discussed in this report, could be uncovered when removing building finishes during renovation activities. Any materials encountered during the renovation activities that are not identified in this report, should either be presumed to be asbestos containing and handled as ACM or be sampled by an accredited asbestos inspector to determine if it contains asbestos.

## LEAD PAINT FINDINGS & RECOMMENDATIONS

The following table presents the suspect paints identified and sampled during this survey as well as all applicable analytical results:

Sample Number	Paint Description	Lead Concentration (wt%)	HUD/OSHA Category
HPMS-P-01	Beige Interior Paint –Boiler Room	0.045%	LCP

HUD/OSHA Categories: LBP = Lead Based Paint LCP = Lead Containing Paint BRL = Below Reporting Limit

The paint chip sample collected in conjunction with this survey contained lead in concentrations above the laboratory limits, however it is not considered to be a lead-based paint.

Based on applicable federal and state regulations, all identified and/or assumed lead-paints/glazing must be handled and disposed of by trained personnel. In general, demolition contractors are trained to remove, handle and dispose of lead paints/glazing which will not typically generate a large amount of additional cost above and beyond the general demolition activities.

## RECOMMENDATIONS

All identified asbestos containing materials from this investigation and previous investigations must be removed by a licensed asbestos abatement contractor prior to them being impacted by any renovation or demolition activities. Additionally, any materials uncovered during renovation or demolition activities that are not addressed in this inspection report or prior reports for the building are considered presumed asbestos containing materials and must be sampled by an accredited asbestos inspector prior to disturbance, or they must be treated as asbestos containing.

## DISCLAIMER

The content presented in this report is based on data collected during the site inspection and survey, review of pertinent regulations, requirements, guidelines and commonly followed industry standards, and information provided by the Beaverton School District, their clients, agents, and representatives.

The work has been conducted in an objective and unbiased manner and in accordance with generally accepted professional practice for this type of work. TRC believes the data and analysis to be accurate and relevant, but cannot accept responsibility for the accuracy or completeness of available documentation or possible withholding of information by other parties.

This asbestos and lead paint survey report is designed to aid the property owner, architect, construction manager, general contractor, and asbestos abatement contractor in locating potential ACMs. This report is not intended for, and may not be utilized as, a bidding document or as an abatement project specification document.

If you have any questions, or need any further clarification regarding this report, please do not hesitate to contact Mr. Ron Landolt at (503) 407-0734.

Sincerely,

**TRC Environmental Corporation**



Matthew Cuda  
Project Manager



Ron Landolt, CAC  
NW Region BSI Practice Manager

## **Appendix A – Figure(s)**





## **Appendix B – Laboratory Analytical Data Sheets**

# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report

**0216747**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	TRC SOLUTIONS	Job# / P.O. #:	332367.0001
Address:	4105 SE INTERNATIONAL WAY, STE 505	Date Received:	03/11/2019
	MILWAUKIE OR 97222	Date Analyzed:	03/14/2019
Collected:	03/06/2019	Date Reported:	03/14/2019
Project Name:	BSD-HIGHLAND PARK MIDDLE	EPA Method:	EPA 600/R-93/116
Address:	SCHOOL	Submitted By:	MATT CUDA
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents	
0216747-001 HPMS-01A	MECHANICAL RM ABOVE C-16	Duct Seam Mastic, Gray	No	None Detected	Carbonates Binder/Filler	100%
0216747-002 HPMS-01B	MECHANICAL RM ABOVE C-16	Duct Seam Mastic, Gray	No	None Detected	Carbonates Binder/Filler	100%
0216747-003 HPMS-01C	MECHANICAL RM ABOVE C-16	Duct Seam Mastic, Gray	No	None Detected	Carbonates Binder/Filler	100%
0216747-004 HPMS-02A	RM C-1	LAYER 1 Counter Top, White/ Tan	No	None Detected	Cellulose Fiber Gypsum Binder/Filler	95% 5%
		LAYER 2 Mastic, Yellow	No	None Detected	Cellulose Fiber Gypsum Binder/Filler	<1% 99%
0216747-005 HPMS-02B	RM C-5	LAYER 1 Counter Top, White/ Tan	No	None Detected	Cellulose Fiber Gypsum Binder/Filler	95% 5%
		LAYER 2 Mastic, Yellow	No	None Detected	Cellulose Fiber Gypsum Binder/Filler	3% 97%

# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report

**0216747**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	TRC SOLUTIONS	Job# / P.O. #:	332367.0001
Address:	4105 SE INTERNATIONAL WAY, STE 505	Date Received:	03/11/2019
	MILWAUKIE OR 97222	Date Analyzed:	03/14/2019
Collected:	03/06/2019	Date Reported:	03/14/2019
Project Name:	BSD-HIGHLAND PARK MIDDLE	EPA Method:	EPA 600/R-93/116
Address:	SCHOOL	Submitted By:	MATT CUDA
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0216747-006 HPMS-02C	RM C-2	LAYER 1	No	None Detected	Cellulose Fiber
		Counter Top, White/ Tan			95%
					Gypsum Binder/Filler
					5%
		LAYER 2	No	None Detected	Cellulose Fiber
		Mastic, Yellow			10%
					Gypsum Binder/Filler
					90%
0216747-007 HPMS-03A	RM C-8	Counter Top, Black	Yes	Chrysotile	20%
					Carbonates Quartz Binder/Filler
					80%
0216747-008 HPMS-03B	RM B-8	Counter Top, Black	Yes	Chrysotile	20%
					Carbonates Quartz Binder/Filler
					80%
0216747-009 HPMS-03C	RM A-6	Counter Top, Black	Yes	Chrysotile	20%
					Carbonates Quartz Binder/Filler
					80%
0216747-010 HPMS-04A	RM C-8	LAYER 1	No	None Detected	Carbonates Quartz Binder/Filler
		Cove Base, Brown/ Tan			100%
		LAYER 2	No	None Detected	Gypsum Carbonates Binder/Filler
		Mastic, Brown			100%

# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report

**0216747**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	TRC SOLUTIONS	Job# / P.O. #:	332367.0001
Address:	4105 SE INTERNATIONAL WAY, STE 505	Date Received:	03/11/2019
	MILWAUKIE OR 97222	Date Analyzed:	03/14/2019
Collected:	03/06/2019	Date Reported:	03/14/2019
Project Name:	BSD-HIGHLAND PARK MIDDLE	EPA Method:	EPA 600/R-93/116
Address:	SCHOOL	Submitted By:	MATT CUDA
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0216747-011 HPMS-04B	RM B-8	LAYER 1 Cove Base, Brown/ Tan	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Brown	No	None Detected	Cellulose Fiber Carbonates Quartz Binder/Filler 99%
		LAYER 1 Cove Base, Brown/ Tan	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Brown	Yes	Tremolite <1%	Talc Non-Fibrous Tremolite Gypsum Quartz Binder/Filler 2% 2% 95%
0216747-013 HPMS-05A	RM B-8	LAYER 1 Counter Top, Green/ Tan	No	None Detected	Cellulose Fiber Gypsum Carbonates Binder/Filler 85% 15%
		LAYER 2 Mastic, Yellow	No	None Detected	Gypsum Binder/Filler 100%
		LAYER 1 Counter Top, Green/ Tan	No	None Detected	Cellulose Fiber Gypsum Carbonates Binder/Filler 85% 15%
		LAYER 2 Mastic, Yellow	No	None Detected	Gypsum Binder/Filler 100%
0216747-014 HPMS-05B	RM B-5	LAYER 1 Counter Top, Green/ Tan	No	None Detected	Cellulose Fiber Gypsum Carbonates Binder/Filler 85% 15%
		LAYER 2 Mastic, Yellow	No	None Detected	Gypsum Binder/Filler 100%
		LAYER 1 Counter Top, Green/ Tan	No	None Detected	Cellulose Fiber Gypsum Carbonates Binder/Filler 85% 15%
		LAYER 2 Mastic, Yellow	No	None Detected	Gypsum Binder/Filler 100%

# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report

**0216747**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	TRC SOLUTIONS	Job# / P.O. #:	332367.0001
Address:	4105 SE INTERNATIONAL WAY, STE 505	Date Received:	03/11/2019
	MILWAUKIE OR 97222	Date Analyzed:	03/14/2019
Collected:	03/06/2019	Date Reported:	03/14/2019
Project Name:	BSD-HIGHLAND PARK MIDDLE	EPA Method:	EPA 600/R-93/116
Address:	SCHOOL	Submitted By:	MATT CUDA
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents	
0216747-015 HPMS-05C	RM B-4	LAYER 1	No	None Detected	Cellulose Fiber	85%
		Counter Top, White/ Tan			Gypsum Carbonates Binder/Filler	15%
		LAYER 2			Cellulose Fiber	<1%
		Mastic, Yellow			Gypsum Binder/Filler	99%
0216747-016 HPMS-06A	RM A-12	LAYER 1	No	None Detected	Cellulose Fiber	85%
		Counter Top, White/ Tan			Gypsum Carbonates Binder/Filler	15%
		LAYER 2			Cellulose Fiber	<1%
		Mastic, Yellow			Gypsum Binder/Filler	99%
0216747-017 HPMS-06B	RM A-9	LAYER 1	No	None Detected	Cellulose Fiber	85%
		Counter Top, Green/ Tan			Gypsum Carbonates Binder/Filler	15%
		LAYER 2			Cellulose Fiber	<1%
		Mastic, Yellow			Gypsum Binder/Filler	99%
0216747-018 HPMS-06C	RM A-4	LAYER 1	No	None Detected	Cellulose Fiber	85%
		Counter Top, White/ Tan			Gypsum Carbonates Binder/Filler	15%
		LAYER 2			Cellulose Fiber	<1%
		Mastic, Yellow			Gypsum Binder/Filler	99%

# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

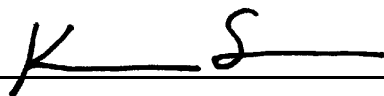
Laboratory Report  
**0216747**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	TRC SOLUTIONS	Job# / P.O. #:	332367.0001
Address:	4105 SE INTERNATIONAL WAY, STE 505	Date Received:	03/11/2019
	MILWAUKIE OR 97222	Date Analyzed:	03/14/2019
Collected:	03/06/2019	Date Reported:	03/14/2019
Project Name:	BSD-HIGHLAND PARK MIDDLE	EPA Method:	EPA 600/R-93/116
Address:	SCHOOL	Submitted By:	MATT CUDA
		Collected By:	

Lab ID	Sample	Layer Name /	Asbestos	Asbestos Type	Non-Asbestos
Client ID	Location	Sample Description	Detected	(%)	Constituents



Analyst - Kenneth Scheske



Signatory - Lab Director - Kurt Kettler

Distinctly stratified, easily separable layers of samples are analyzed as subsamples of the whole and are reported separately for each discernible layer. All analyses are derived from calibrated visual estimate and measured in area percent unless otherwise noted. The report applies to the standards or procedures identified and to the sample(s) tested. The test results are not necessarily indicated or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. These reports are for the exclusive use of the addressed client and that they will not be reproduced wholly or in part for advertising or other purposes over our signature or in connection with our name without special written permission. The report shall not be reproduced except in full, without written approval by our laboratory. The samples not destroyed in testing are retained a maximum of thirty days. The laboratory measurement of uncertainty for the test method is approximately less than 1 by area percent. Accredited by the National Institute of Standards and Technology, Voluntary Laboratory Accreditation Program for selected test method for asbestos. The accreditation or any reports generated by this laboratory in no way constitutes or implies product certification, approval, or endorsement by the National Institute of Standards and Technology. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Polarized Light Microscopy may not be consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials.

# CHAIN OF CUSTODY

EMC Labs, Inc.  
9830 S. 51<sup>st</sup> St., Ste B-109  
Phoenix, AZ 85044  
(800) 362-3373 Fax (480) 893-1726

LAB#: 216747  
TAT: 3day  
Rec'd: MAR 11 P.M.

COMPANY NAME: **TRC SOLUTIONS**  
4105 SE International Way, Suite 505  
Milwaukie, Oregon 97222  
CONTACT: Ron Landolt **Scan & Excel**  
Phone/Fax: (503) 387-3251 / (503) 908-1318  
Email: rlandolt@trcsolutions.com and mcuda@trcsolutions.com

BILL TO: (If Different Location)  
Phoenix, AZ

Now Accepting: **VISA - MASTERCARD**

Price Quoted: \$ \_\_\_\_\_ / Sample \$ \_\_\_\_\_ / Layers

**COMPLETE ITEMS 1-4:** (Failure to complete any items may cause a delay in processing or analyzing your samples)

**1. TURNAROUND TIME:** [4hr rush] [8hr rush] [1-Day] [2-Day] **[3-Day]** [5-Day] [6-10 Day]

\*\*\*\*Prior confirmation of turnaround time is required

\*\*\*\*Additional charges for rush analysis (please call marketing department for pricing details)

\*\*\*\*Laboratory analysis may be subject to delay if credit terms are not met

**2. TYPE OF ANALYSIS:** **[Bulk-PLM]** [Air-PCM] [Lead] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]

**3. DISPOSAL INSTRUCTIONS:** **[Dispose of samples at EMC]** / [Return samples to me at my expense]

(If you do not indicate preference, EMC will dispose of samples 60 days from analysis.)

**4. Project Name:** BSD- Highland Park Middle School

**P.O. Number:** \_\_\_\_\_ **Project Number:** 332367.0001

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No	AIR SAMPLE INFO / COMMENTS		
					ON	OFF	FLOW RATE
1	HPMS-01A	3-6-19	See Attached Field Logs	Y N			
				Y N			
				Y N			
				Y N			
				Y N			
18	HPMS-06C			Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			

**SPECIAL INSTRUCTIONS:**

Sample Collector: (Print) Math Cuda

(Signature) Math Cuda

Relinquished by: Math Cuda

Date/Time: 3-8-19 1600

Received by: Diana Federico

Date/Time: 3/11/19 1935

Relinquished by: Diana Federico

Date/Time: 3/11/19 8:10

Received by: [Signature]

Date/Time: 3/11/19 1510

Relinquished by: \_\_\_\_\_

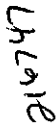
Date/Time: \_\_\_\_\_

Received by: \_\_\_\_\_

Date/Time: \_\_\_\_\_

\*\* In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.





Project #: 332367

Inspector Name and License #:

**Name:** Highland Park M.S. HVAC upgrade

Date of Inspection: 3-6-19

Location: 7000 SW Wilson Avenue, Beaverton, OR Inspector Signature:

Page 1 of 1

[illegible]



9830 South 51<sup>st</sup> Street, Suite B-109 / PHOENIX, ARIZONA 85044 / 480-940-5294 or 800-362-3373 / FAX 480-893-1726  
emclab@emclabs.com

**LEAD (Pb) IN PAINT CHIP SAMPLES**  
**EMC SOP METHOD #L01/1 EPA SW-846 METHOD 7420**

<b>EMC LAB #:</b> L74040		<b>DATE RECEIVED:</b> 03/11/19			
<b>CLIENT:</b> TRC Solutions		<b>REPORT DATE:</b> 03/14/19			
		<b>DATE OF ANALYSIS:</b> 03/13/19			
<b>CLIENT ADDRESS:</b> 4105 SE International Way, Suite 505 Milwaukie, OR 97222		<b>P.O. NO.:</b>			
<b>PROJECT NAME:</b> BSD – Highland Park Middle School		<b>PROJECT NO.:</b> 332367.0001			
<b>EMC #</b> L74040-	<b>SAMPLE DATE /19</b>	<b>CLIENT SAMPLE #</b>	<b>DESCRIPTION</b>	<b>REPORTING LIMIT</b> (%Pb by weight)	<b>%Pb BY WEIGHT</b>
1	03/06	HPMS-P-01	Beige Interior Paint – Boiler Room	0.010	0.045

^ = Dilution Factor Changed \* = Excessive Substrate May Bias Sample Results **BRL** = Below Reportable Limits # = Very Small Amount Of Sample Submitted, May Affect Result

This report applies to the standards or procedures identified and to the samples tested only. The test results are not necessarily indicative or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. Unless otherwise noted, all quality control analyses for the samples noted above were within acceptable limits.

Where it is noted that a sample with excessive substrate was submitted for laboratory analysis, such analysis may be biased. The lead content of such sample may, in actuality, be greater than reported. EMC makes no warranty, express or implied, as to the accuracy of the analysis of samples noted to have been submitted with excessive substrate. Resampling is recommended in such situations to verify original laboratory results.

These reports are for the exclusive use of the addressed client and are rendered upon the condition that they will not be reproduced wholly or in part for advertising or other purposes over our signature or in connection with our name without special written permission. Samples not destroyed in testing are retained a maximum of sixty (60) days.

**ANALYST:**

Jason Thompson

**QA COORDINATOR:**

Kurt Kettler

# CHAIN OF CUSTODY

EMC Labs, Inc.  
9830 S. 51<sup>st</sup> St., Ste B-109  
Phoenix, AZ 85044  
(800) 362-3373 Fax (480) 893-1726

LAB#: 274040  
TAT: 3 days  
Rec'd: 3/11/19

COMPANY NAME: **TRC SOLUTIONS**  
4105 SE International Way, Suite 505  
Milwaukie, Oregon 97222  
CONTACT: Ron Landolt **Scan & Excel**  
Phone/Fax: (503) 387-3251 / (503) 908-1318  
Email: rlandolt@trcsolutions.com and mcuda@trcsolutions.com

BILL TO: (If Different Location)  
Phoenix, AZ

Now Accepting: **VISA - MASTERCARD**

Price Quoted: \$ / Sample \$ / Layers

## COMPLETE ITEMS 1-4: (Failure to complete any items may cause a delay in processing or analyzing your samples)

1. **TURNAROUND TIME:** [4hr rush] [8hr rush] [1-Day] [2-Day] [3-Day] [5-Day] [6-10 Day]

\*\*\*\*Prior confirmation of turnaround time is required

\*\*\*\*Additional charges for rush analysis (please call marketing department for pricing details)

\*\*\*\*Laboratory analysis may be subject to delay if credit terms are not met

2. **TYPE OF ANALYSIS:** [Bulk-PLM] [Air-PCM] [Lead] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]

3. **DISPOSAL INSTRUCTIONS:** [Dispose of samples at EMC] / [Return samples to me at my expense]

(If you do not indicate preference, EMC will dispose of samples 60 days from analysis.)

4. **Project Name:** BSD- Highland Park Middle School

**P.O. Number:** **Project Number:** 332367.0001

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No	AIR SAMPLE INFO / COMMENTS ON OFF FLOW RATE		
1	HPMS-P-01	3-6-19	Beige interior Paint - Boiler Rm	Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			

### SPECIAL INSTRUCTIONS:

Sample Collector: (Print) Math Cuda

(Signature) Math Cuda

Relinquished by: Math Cuda Date/Time: 3-8-19 1600

Received by: Math Cuda Date/Time: 3/11/19 936

Relinquished by: Math Cuda Date/Time: 3/11/19 11:05

Received by: Math Cuda Date/Time: 3/11/19 11:35

Relinquished by: Math Cuda Date/Time: 3/11/19

Received by: Math Cuda Date/Time: 3/11/19

\*\* In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.

## **Appendix C – Inspector Certification(s)**

---

# ***The Environmental Institute***

---

---

## ***Matthew Cuda***

---

Social Security Number - XXX-XX-8274  
TRC - 4105 SE International Way #505 - Milwaukie, Oregon 97222

*Has completed coursework and satisfactorily passed  
an examination that meets all criteria required for  
EPA/AHERA/ASHARA (TSCA Title II) Approved Reaccreditation*

### ***Asbestos in Buildings: Inspector Refresher***

***February 1, 2019***

Course Date

***17225***

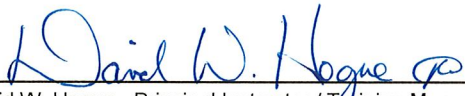
Certificate Number

***February 1, 2019***

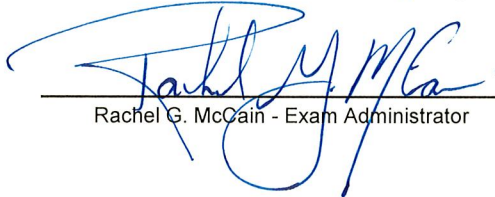
Examination Date

***January 31, 2020***

Expiration Date



David W. Hogue - Principal Instructor / Training Manager



Rachel G. McCain - Exam Administrator



(Approved by the ABIH Certification Maintenance Committee for 1/2 CM point - Approval #11-577)

(Florida Provider Registration Number FL49-0001342 - Course #FL49-0002805)

TEI - 1841 West Oak Parkway, Suite F - Marietta, Georgia 30062 - (770) 427-3600 - [www.tei-atl.com](http://www.tei-atl.com)



**STATE OF OREGON**  
**CONSTRUCTION CONTRACTORS BOARD**  
**LEAD BASED PAINT RISK ASSESSOR LICENSE**

LICENSE NUMBER: 9152079-RA

This document certifies that

RONALD ALAN LANDOLT  
4105 SE INTERNATIONAL WAY STE 505  
MILWAUKIE OR 97222

is licensed in accordance with Oregon Law as a Lead Based Paint Risk Assessor

**License Details:**

LICENSE NO.: 9152079-RA  
EXPIRATION DATE: 10/24/2019

# **LIMITED SUPPLEMENTAL ASBESTOS AND LEAD PAINT SURVEY REPORT**

## **Highland Park Middle School**

**7000 SW Wilson Avenue  
Beaverton, OR 97008**

Prepared for:

### **Beaverton School District**

**16550 SW Merlo Road  
Beaverton, OR 97006**

**Inspection Dates:** March 6, 2019

**Report Prepared:** March 21, 2019

Prepared By:



**4105 SE International Way, Suite 505  
Milwaukie, OR 97222  
503.387.3251**

TRC Project Number: 332367

## TABLE OF CONTENTS

EXECUTIVE SUMMARY .....	1
BACKGROUND.....	3
<i>Asbestos Containing Materials</i> .....	3
<i>OSHA Regulated Materials</i> .....	3
<i>Asbestos Sampling and Analytical Procedures</i> .....	3
<i>Lead-based and Lead-containing Paints</i> .....	4
ASBESTOS FINDINGS & RECOMMENDATIONS .....	4
LEAD PAINT FINDINGS & RECOMMENDATIONS .....	6
RECOMMENDATIONS .....	7
DISCLAIMER .....	7

### Appendices

- Appendix A – Figures
- Appendix B – Laboratory Analytical Data Sheets
- Appendix C – Inspector Certification(s)



## **EXECUTIVE SUMMARY**

TRC Environmental Corporation (TRC) was contracted by the Beaverton School District to conduct a supplemental asbestos and lead paint survey, including collection of bulk asbestos samples, laboratory analysis, and preparation of a report for Highland Park Middle School located at 7000 SW Wilson Avenue in Beaverton, Oregon 97008. Mr. Matt Cuda, AHERA accredited building inspector and Mr. Ron Landolt, lead risk assessor, performed the survey on March 6<sup>th</sup>, 2019. The survey activities included the review of prior sampling documentation and reports provided by the District, inspection and assessment of accessible suspect building materials, collection of bulk samples of suspect asbestos containing building materials that had previously not be sampled, and submission of bulk samples for laboratory analysis.

### **ASBESTOS MATERIAL SUMMARY**

Suspect asbestos containing building materials were sampled and submitted under the chain-of-custody (COC) protocol to an accredited laboratory for polarized light microscopy (PLM) bulk sample analysis. Inspection, sampling and analytical procedures were performed in general accordance with the U.S. Environmental Protection Agency's (EPA's) National Emission Standards for Hazardous Air Pollutants (NESHAP) EPA 40 CFR 61 Subpart M, the EPA Asbestos Hazard Emergency Response Act (AHERA) 40 CFR Part 763, and Federal Occupational Safety and Health Administration (OSHA) 29 CFR 1926.1101 guidelines.

The following materials sampled during this investigation and prior investigations were identified as asbestos containing materials:

- Black Lab Countertops
- Gypsum Wallboard/ Joint Compound (Previously Sampled)
- Vinyl Floor Tile (Previously Sampled)
- Boiler Door Insulation (Previously Sampled)
- Hard Fittings on Fiberglass Pipe Insulation (Previously Sampled)
- Mag Block Insulation (Previously Sampled)
- Mag Pipe Insulation (Previously Sampled)
- Exterior Window Caulk (Previously Sampled)
- Cove Base Mastic (Previously Sampled)
- Mastic (Splash Guards) (Previously Sampled)
- Window Glazing Compound (Previously Sampled)
- Ceramic Tile Mastic, Brown (Previously Sampled)
- Ceramic Tile Grout, White (Previously Sampled)
- Pipe Insulation (Previously Sampled)
- Duct Felt Tape (Previously Sampled)
- Air Cell Duct Insulation (Previously Sampled)

The following materials sampled during this investigation and prior investigations were identified as OSHA Regulated Materials (OSHA):

- Brown Cove Base Glue

Additionally, any materials uncovered during renovation activities that are not addressed in this inspection report or prior reports for the building are considered presumed asbestos containing

materials and must be sampled by an accredited asbestos inspector prior to disturbance, or they must be treated as asbestos containing.

### **LEAD PAINT/GLAZING MATERIAL SUMMARY**

Lead-based paint (LBP) is defined by the United States Department of House and Urban Development (HUD) as any paint, varnish, stain, or other applied coating that has one mg/cm<sup>2</sup> or more of lead or 0.5% by weight (5,000 micrograms per gram [µg/g] or 5,000 parts of lead per million [ppm]). The United States' Consumer Product Safety Commission (CPSC) banned lead paint in 1977 in residential properties and public buildings (16 Code of Federal Regulations 1303). According the Oregon Occupational Safety and Health Division's (OR OSHA) Program Directive, Lead: Exposure in Construction, "For all occupational exposure to lead occurring in the course of construction work, the standard (1926.62) does not specify a minimum amount or concentration of lead that triggers a determination that lead is present and the potential for occupational exposure exists. Therefore any paint containing less than one (1) mg/cm<sup>2</sup>, but greater than the laboratory or XRF detection limit is considered to be a lead-containing paint.

The paint chip sample collected in conjunction with this survey contained lead in concentrations above the laboratory limits, however it is not considered to be a lead-based paint.

Based on applicable federal and state regulations, all identified and/or assumed lead-paints/glazing must be handled and disposed of by trained personnel. In general, demolition contractors are trained to remove, handle and dispose of lead paints/glazing.

## INTRODUCTION

A supplemental asbestos and lead paint survey was conducted by TRC at Highland Park Middle School, located at 7000 SW Wilson Avenue in Beaverton, Oregon. It was reported by the client that this limited hazardous materials survey is being conducted in conjunction with their HVAC renovation project. The survey activities were performed on March 6<sup>th</sup>, 2019, and included the review of prior sampling documentation and reports as well as the inspection, assessment and bulk sampling of suspect asbestos containing building materials that had not previously been sampled. Sample locations are presented on the Sample Location Diagrams in Appendix A.

Mr. Matt Cuda, AHERA accredited building inspector and Mr. Ron Landolt, lead risk assessor, conducted the survey inspection and sampling activities. Copies of training certificates and state licenses (where applicable) are presented in Appendix C, Inspector Certifications.

## BACKGROUND

### Asbestos Containing Materials

The United States Environmental Protection Agency (EPA) define an asbestos-containing material (ACM) as any material containing more than one percent (>1.0%) asbestos by weight. In addition, ACMs are designated as:

Friable asbestos - material which can be crumbled, pulverized or reduced to powder by hand pressure, a.k.a. Regulated Asbestos Containing Materials (RACM).

Category I Non-friable - includes resilient floor coverings, asphalt roofing products, gaskets and packing.

Category II Non-friable - any non-friable ACM that is not in Category I (i.e. Asbestos-cement (Transite) siding or roofing material).

### OSHA Regulated Materials

The Occupational Safety and Health Administration (OSHA) regulates all materials containing any detectable level of asbestos by weight, including those materials containing 1.0% or less.

### Asbestos Sampling and Analytical Procedures

Representative bulk samples of suspect asbestos-containing building materials were randomly collected from the interior of the building. Homogenous material determination was based on the following criteria:

- Similar physical characteristics (same color and texture, etc.),
- Application (sprayed or trowel-on, assembly into a system, etc.),
- Material function (thermal insulation, floor tile, wallboard system, etc.).

The bulk samples were collected, labeled, and shipped to the certified analytical laboratory under proper COC documentation, and condition and approximate quantity assessments were performed by the accredited inspector during the inspection. Laboratory services were provided by EMC Labs, Inc., in Phoenix, Arizona, a National Voluntary Laboratory Accreditation Program (NVLAP code #101424-0).

Bulk samples were analyzed by PLM utilizing the EPA's Test Methods: Methods for the Determination of Asbestos in Bulk Building Materials (EPA 600/R-93/116, July 1993) and the McCrone Research Institute's The Asbestos Particle Atlas as method references.

Analysis by PLM was performed by visual observation of the bulk sample and slides prepared of the bulk sample for microscopic examination and identification. The samples were analyzed for asbestos (Chrysotile, Amosite, Crocidolite, Anthophyllite, and Actinolite/Tremolite), fibrous non-asbestos constituents (mineral wool, cellulose, etc.) and non-fibrous constituents. Using a stereoscope, the microscopist visually estimates the relative amounts of each constituent by determining the estimated area of the asbestos compared with the area estimate of the total sample.

#### Lead-based and Lead-containing Paints

Lead-based paint (LBP) is defined by the United States Department of Housing and Urban Development (HUD) as any paint, varnish, stain, or other applied coating that has one (1) mg/cm<sup>2</sup> or more of lead or 0.5% by weight (5,000 micrograms per gram [µg/g] or 5,000 parts of lead per million [ppm]).

According the Occupational Safety and Health Division's (OSHA) Program Directive, Lead: Exposure in Construction, "For all occupational exposure to lead occurring in the course of construction work, the standard (1926.62) does not specify a minimum amount or concentration of lead that triggers a determination that lead is present and the potential for occupational exposure exists. Therefore any paint containing less than one (1) mg/cm<sup>2</sup>, but greater than the laboratory detection limit is considered to be a lead-containing paint.

Laboratory services were provided by EMC Labs, Inc., in Phoenix, Arizona, a National Voluntary Laboratory Accreditation Program (NVLAP) certified laboratory (NVLAP code #101926-O). Paint Chip samples were analyzed by EPA Method 7420.

## ASBESTOS FINDINGS & RECOMMENDATIONS

The following table presents the location and quantities of each suspect building material identified and sampled during this survey as well as all applicable analytical results:

Sample No.	Material	Sample Location	Asbestos Content	Approximate Quantity
HPMS-01A HPMS-01B HPMS-01C	Gray Duct Seam Mastic	Mechanical Room Above C-16	ND	N/A
HPMS-02A HPMS-02B HPMS-02C	Countertop Glue, Yellow	Throughout C Hallway	ND	N/A
HPMS-03A HPMS-03B HPMS-03C	Lab Countertop	Throughout Lab Classrooms	20% Chrysotile	2,160 SF
HPMS-04A HPMS-04B HPMS-04C	Brown Cove Base and Associated Brown Glue	Throughout	Cove – ND Glue – <1% Tremolite	1,800 LF

ND = Non-detect

SF = Square feet

LF = Linear Feet

N/A = Not Applicable

Sample No.	Material	Sample Location	Asbestos Content	Approximate Quantity
HPMS-05A HPMS-05B HPMS-05C	Countertop Glue, Yellow	Throughout B Hallway	ND	N/A
HPMS-06A HPMS-06B HPMS-06C	Countertop Glue, Yellow	Throughout A Hallway	ND	N/A

ND = Non-detect

SF = Square feet

LF = Linear Feet

N/A = Not Applicable

### Asbestos Containing Materials (ACMs)

Asbestos was detected in the following materials sampled during this and prior investigations:

Material	Approximate Location(s)	Approximate Quantity
Lab Countertop	Throughout Lab Classrooms	<b>2,160 SF</b>
Gypsum Wallboard/ Joint Compound	Throughout	Unknown – Prior Report
Vinyl Floor Tile	Classroom 3	Unknown – Prior Report
Boiler Door Insulation	Boiler Room	Unknown – Prior Report
Hard Fittings on Fiberglass Pipe Insulation	Throughout	Unknown – Prior Report
Mag Block Insulation	Boiler Room, Tunnel System	Unknown – Prior Report
Mag Pipe Insulation	Boiler Room, Tunnel System	Unknown – Prior Report
Exterior Window Caulk	C13	Unknown – Prior Report
Cove base Mastic	C13	Unknown – Prior Report
Mastic (Splashguards)	C13	Unknown – Prior Report
Window Glazing Compound	C13	Unknown – Prior Report
Ceramic Tile Mastic	Boys Restroom 3	Unknown – Prior Report
Ceramic Tile Grout, White	Boys Restroom 3	Unknown – Prior Report
Duct Felt Tape	Mechanical Loft	Unknown – Prior Report
Air Cell Duct Insulation	Room B-14	Unknown – Prior Report

### OSHA Regulated Materials (<1.0%)

Material	Approximate Location(s)	Approximate Quantity
Brown Cove Base and Associated Brown Glue	Throughout	<b>1,800 LF</b>

### Non-Detect Materials (ND)

Asbestos was not detected in the following materials sampled during this investigation:

Material	Location
Gray Duct Seam Mastic	Mechanical Room Above C-16
Countertop Glue, Yellow	Throughout C Hallway
Countertop Glue, Yellow	Throughout B Hallway
Countertop Glue, Yellow	Throughout A Hallway
Glued- On Ceiling Tiles, 1' x 1' random fissures with brown mastic	A Hallway, B Hallway, C Hallway, A10, C13, CR 1, Main Lobby, Music Room,
Hard Fitting Insulation	Attic above workroom
Silver Paint	Boiler Room

Material	Location
Gasket	Boiler Room
End Cap	Boiler Room
Boiler Insulation	Boiler Room
Built-up Roofing (asphaltic)	Cafeteria, Gymnasium, Main Roof
Paneling	Cafeteria
Cove Base Mastic	Classroom 3, Classroom 7, Office A203, Reception
Caulk	Classroom 3 and 4
Miscellaneous Curtain	CR 3 and CR 4
Miscellaneous Grout	CR 3
Lay-in Ceiling Tile	CR 3, Office A203
Settled Dust	Hallway by Kitchen
Fire Brick	Boiler Room
Formica Countertop Glue	C13
Wainscot Mastic	C13
Roof Penetration Sealant	Main Roof Center
Sheet Floor Covering	Reception
Formica	Room B-10
Countertop	Room B-14

Due to the Site being an occupied building at the time of the inspection and sampling, a full destructive investigation for concealed materials was not performed. Hidden building materials (e.g., old floor mastic patches hidden under carpeting, chalkboard mastic, mirror mastic, wood paneling mastic, etc.), other than those discussed in this report, could be uncovered when removing building finishes during renovation activities. Any materials encountered during the renovation activities that are not identified in this report, should either be presumed to be asbestos containing and handled as ACM or be sampled by an accredited asbestos inspector to determine if it contains asbestos.

## LEAD PAINT FINDINGS & RECOMMENDATIONS

The following table presents the suspect paints identified and sampled during this survey as well as all applicable analytical results:

Sample Number	Paint Description	Lead Concentration (wt%)	HUD/OSHA Category
HPMS-P-01	Beige Interior Paint –Boiler Room	0.045%	LCP

HUD/OSHA Categories: LBP = Lead Based Paint LCP = Lead Containing Paint BRL = Below Reporting Limit

The paint chip sample collected in conjunction with this survey contained lead in concentrations above the laboratory limits, however it is not considered to be a lead-based paint.

Based on applicable federal and state regulations, all identified and/or assumed lead-paints/glazing must be handled and disposed of by trained personnel. In general, demolition contractors are trained to remove, handle and dispose of lead paints/glazing which will not typically generate a large amount of additional cost above and beyond the general demolition activities.

## RECOMMENDATIONS

All identified asbestos containing materials from this investigation and previous investigations must be removed by a licensed asbestos abatement contractor prior to them being impacted by any renovation or demolition activities. Additionally, any materials uncovered during renovation or demolition activities that are not addressed in this inspection report or prior reports for the building are considered presumed asbestos containing materials and must be sampled by an accredited asbestos inspector prior to disturbance, or they must be treated as asbestos containing.

## DISCLAIMER

The content presented in this report is based on data collected during the site inspection and survey, review of pertinent regulations, requirements, guidelines and commonly followed industry standards, and information provided by the Beaverton School District, their clients, agents, and representatives.

The work has been conducted in an objective and unbiased manner and in accordance with generally accepted professional practice for this type of work. TRC believes the data and analysis to be accurate and relevant, but cannot accept responsibility for the accuracy or completeness of available documentation or possible withholding of information by other parties.

This asbestos and lead paint survey report is designed to aid the property owner, architect, construction manager, general contractor, and asbestos abatement contractor in locating potential ACMs. This report is not intended for, and may not be utilized as, a bidding document or as an abatement project specification document.

If you have any questions, or need any further clarification regarding this report, please do not hesitate to contact Mr. Ron Landolt at (503) 407-0734.

Sincerely,

**TRC Environmental Corporation**



Matthew Cuda  
Project Manager



Ron Landolt, CAC  
NW Region BSI Practice Manager

## **Appendix A – Figure(s)**





---




**Highland Park Middle School**  
**7000 SW Wilson Avenue**  
**Beaverton, Oregon 97008**

Suite 505  
Milwaukie, OR 97222  
C: 503-407-0734  
F: 503-762-6882



DATE	March 2019
PROJECT NO.	332367
DRAWN BY	SC
CHECKED BY	MC
CHECKED BY	RL



-  SAMPLE LOCATION  
 ASBESTOS-CONTAINING SAMPLE LOCATION  
 OSHA REGULATED MATERIAL SAMPLE LOCATION

## **Appendix B – Laboratory Analytical Data Sheets**

# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report

**0216747**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	TRC SOLUTIONS	Job# / P.O. #:	332367.0001
Address:	4105 SE INTERNATIONAL WAY, STE 505	Date Received:	03/11/2019
	MILWAUKIE OR 97222	Date Analyzed:	03/14/2019
Collected:	03/06/2019	Date Reported:	03/14/2019
Project Name:	BSD-HIGHLAND PARK MIDDLE	EPA Method:	EPA 600/R-93/116
Address:	SCHOOL	Submitted By:	MATT CUDA
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents	
0216747-001 HPMS-01A	MECHANICAL RM ABOVE C-16	Duct Seam Mastic, Gray	No	None Detected	Carbonates Binder/Filler	100%
0216747-002 HPMS-01B	MECHANICAL RM ABOVE C-16	Duct Seam Mastic, Gray	No	None Detected	Carbonates Binder/Filler	100%
0216747-003 HPMS-01C	MECHANICAL RM ABOVE C-16	Duct Seam Mastic, Gray	No	None Detected	Carbonates Binder/Filler	100%
0216747-004 HPMS-02A	RM C-1	LAYER 1 Counter Top, White/ Tan	No	None Detected	Cellulose Fiber Gypsum Binder/Filler	95% 5%
		LAYER 2 Mastic, Yellow	No	None Detected	Cellulose Fiber Gypsum Binder/Filler	<1% 99%
0216747-005 HPMS-02B	RM C-5	LAYER 1 Counter Top, White/ Tan	No	None Detected	Cellulose Fiber Gypsum Binder/Filler	95% 5%
		LAYER 2 Mastic, Yellow	No	None Detected	Cellulose Fiber Gypsum Binder/Filler	3% 97%

# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report

**0216747**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	TRC SOLUTIONS	Job# / P.O. #:	332367.0001
Address:	4105 SE INTERNATIONAL WAY, STE 505	Date Received:	03/11/2019
	MILWAUKIE OR 97222	Date Analyzed:	03/14/2019
Collected:	03/06/2019	Date Reported:	03/14/2019
Project Name:	BSD-HIGHLAND PARK MIDDLE	EPA Method:	EPA 600/R-93/116
Address:	SCHOOL	Submitted By:	MATT CUDA
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)		Non-Asbestos Constituents	
0216747-006 HPMS-02C	RM C-2	LAYER 1	No	None Detected		Cellulose Fiber	95%
		Counter Top, White/ Tan				Gypsum Binder/Filler	5%
		LAYER 2	No	None Detected		Cellulose Fiber	10%
		Mastic, Yellow				Gypsum Binder/Filler	90%
0216747-007 HPMS-03A	RM C-8	Counter Top, Black	Yes	Chrysotile	20%	Carbonates Quartz Binder/Filler	80%
0216747-008 HPMS-03B	RM B-8	Counter Top, Black	Yes	Chrysotile	20%	Carbonates Quartz Binder/Filler	80%
0216747-009 HPMS-03C	RM A-6	Counter Top, Black	Yes	Chrysotile	20%	Carbonates Quartz Binder/Filler	80%
0216747-010 HPMS-04A	RM C-8	LAYER 1	No	None Detected		Carbonates Quartz Binder/Filler	100%
		Cove Base, Brown/ Tan					
		LAYER 2	No	None Detected		Gypsum Carbonates Binder/Filler	100%
		Mastic, Brown					

# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report

**0216747**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	TRC SOLUTIONS	Job# / P.O. #:	332367.0001
Address:	4105 SE INTERNATIONAL WAY, STE 505	Date Received:	03/11/2019
	MILWAUKIE OR 97222	Date Analyzed:	03/14/2019
Collected:	03/06/2019	Date Reported:	03/14/2019
Project Name:	BSD-HIGHLAND PARK MIDDLE	EPA Method:	EPA 600/R-93/116
Address:	SCHOOL	Submitted By:	MATT CUDA
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0216747-011 HPMS-04B	RM B-8	LAYER 1 Cove Base, Brown/ Tan	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Brown	No	None Detected	Cellulose Fiber Carbonates Quartz Binder/Filler 99%
		LAYER 1 Cove Base, Brown/ Tan	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Brown	Yes	Tremolite <1%	Talc Non-Fibrous Tremolite Gypsum Quartz Binder/Filler 2% 2% 95%
0216747-013 HPMS-05A	RM B-8	LAYER 1 Counter Top, Green/ Tan	No	None Detected	Cellulose Fiber Gypsum Carbonates Binder/Filler 85% 15%
		LAYER 2 Mastic, Yellow	No	None Detected	Gypsum Binder/Filler 100%
		LAYER 1 Counter Top, Green/ Tan	No	None Detected	Cellulose Fiber Gypsum Carbonates Binder/Filler 85% 15%
		LAYER 2 Mastic, Yellow	No	None Detected	Gypsum Binder/Filler 100%
0216747-014 HPMS-05B	RM B-5	LAYER 1 Counter Top, Green/ Tan	No	None Detected	Cellulose Fiber Gypsum Carbonates Binder/Filler 85% 15%
		LAYER 2 Mastic, Yellow	No	None Detected	Gypsum Binder/Filler 100%
		LAYER 1 Counter Top, Green/ Tan	No	None Detected	Cellulose Fiber Gypsum Carbonates Binder/Filler 85% 15%
		LAYER 2 Mastic, Yellow	No	None Detected	Gypsum Binder/Filler 100%

# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report

**0216747**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	TRC SOLUTIONS	Job# / P.O. #:	332367.0001
Address:	4105 SE INTERNATIONAL WAY, STE 505	Date Received:	03/11/2019
	MILWAUKIE OR 97222	Date Analyzed:	03/14/2019
Collected:	03/06/2019	Date Reported:	03/14/2019
Project Name:	BSD-HIGHLAND PARK MIDDLE	EPA Method:	EPA 600/R-93/116
Address:	SCHOOL	Submitted By:	MATT CUDA
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents	
0216747-015 HPMS-05C	RM B-4	LAYER 1	No	None Detected	Cellulose Fiber	85%
		Counter Top, White/ Tan			Gypsum Carbonates Binder/Filler	15%
		LAYER 2			Cellulose Fiber	<1%
		Mastic, Yellow			Gypsum Binder/Filler	99%
0216747-016 HPMS-06A	RM A-12	LAYER 1	No	None Detected	Cellulose Fiber	85%
		Counter Top, White/ Tan			Gypsum Carbonates Binder/Filler	15%
		LAYER 2			Cellulose Fiber	<1%
		Mastic, Yellow			Gypsum Binder/Filler	99%
0216747-017 HPMS-06B	RM A-9	LAYER 1	No	None Detected	Cellulose Fiber	85%
		Counter Top, Green/ Tan			Gypsum Carbonates Binder/Filler	15%
		LAYER 2			Cellulose Fiber	<1%
		Mastic, Yellow			Gypsum Binder/Filler	99%
0216747-018 HPMS-06C	RM A-4	LAYER 1	No	None Detected	Cellulose Fiber	85%
		Counter Top, White/ Tan			Gypsum Carbonates Binder/Filler	15%
		LAYER 2			Cellulose Fiber	<1%
		Mastic, Yellow			Gypsum Binder/Filler	99%

# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report

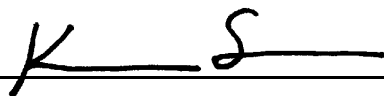
0216747

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	TRC SOLUTIONS	Job# / P.O. #:	332367.0001
Address:	4105 SE INTERNATIONAL WAY, STE 505	Date Received:	03/11/2019
	MILWAUKIE OR 97222	Date Analyzed:	03/14/2019
Collected:	03/06/2019	Date Reported:	03/14/2019
Project Name:	BSD-HIGHLAND PARK MIDDLE	EPA Method:	EPA 600/R-93/116
Address:	SCHOOL	Submitted By:	MATT CUDA
		Collected By:	

Lab ID	Sample	Layer Name /	Asbestos	Asbestos Type	Non-Asbestos
Client ID	Location	Sample Description	Detected	(%)	Constituents



Analyst - Kenneth Scheske



Signatory - Lab Director - Kurt Kettler

Distinctly stratified, easily separable layers of samples are analyzed as subsamples of the whole and are reported separately for each discernible layer. All analyses are derived from calibrated visual estimate and measured in area percent unless otherwise noted. The report applies to the standards or procedures identified and to the sample(s) tested. The test results are not necessarily indicated or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. These reports are for the exclusive use of the addressed client and that they will not be reproduced wholly or in part for advertising or other purposes over our signature or in connection with our name without special written permission. The report shall not be reproduced except in full, without written approval by our laboratory. The samples not destroyed in testing are retained a maximum of thirty days. The laboratory measurement of uncertainty for the test method is approximately less than 1 by area percent. Accredited by the National Institute of Standards and Technology, Voluntary Laboratory Accreditation Program for selected test method for asbestos. The accreditation or any reports generated by this laboratory in no way constitutes or implies product certification, approval, or endorsement by the National Institute of Standards and Technology. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Polarized Light Microscopy may not be consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials.

# CHAIN OF CUSTODY

EMC Labs, Inc.  
9830 S. 51<sup>st</sup> St., Ste B-109  
Phoenix, AZ 85044  
(800) 362-3373 Fax (480) 893-1726

LAB#: 216747  
TAT: 3day  
Rec'd: MAR 11 P.M.

COMPANY NAME: **TRC SOLUTIONS**  
4105 SE International Way, Suite 505  
Milwaukie, Oregon 97222  
CONTACT: Ron Landolt **Scan & Excel**  
Phone/Fax: (503) 387-3251 / (503) 908-1318  
Email: rlandolt@trcsolutions.com and mcuda@trcsolutions.com

BILL TO: (If Different Location)  
Phoenix, AZ

Now Accepting: **VISA - MASTERCARD**

Price Quoted: \$ \_\_\_\_\_ / Sample \$ \_\_\_\_\_ / Layers

**COMPLETE ITEMS 1-4:** (Failure to complete any items may cause a delay in processing or analyzing your samples)

**1. TURNAROUND TIME:** [4hr rush] [8hr rush] [1-Day] [2-Day] **[3-Day]** [5-Day] [6-10 Day]

\*\*\*\*Prior confirmation of turnaround time is required

\*\*\*\*Additional charges for rush analysis (please call marketing department for pricing details)

\*\*\*\*Laboratory analysis may be subject to delay if credit terms are not met

**2. TYPE OF ANALYSIS:** **[Bulk-PLM]** [Air-PCM] [Lead] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]

**3. DISPOSAL INSTRUCTIONS:** **[Dispose of samples at EMC]** / [Return samples to me at my expense]

(If you do not indicate preference, EMC will dispose of samples 60 days from analysis.)

**4. Project Name:** BSD- Highland Park Middle School

**P.O. Number:** \_\_\_\_\_ **Project Number:** 332367.0001

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No	AIR SAMPLE INFO / COMMENTS		
					ON	OFF	FLOW RATE
1	HPMS-01A	3-6-19	See Attached Field Logs	Y N			
				Y N			
				Y N			
				Y N			
				Y N			
18	HPMS-06C			Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			

**SPECIAL INSTRUCTIONS:**

Sample Collector: (Print) Math Cuda

(Signature) Math Cuda

Relinquished by: Math Cuda

Date/Time: 3-8-19 1600

Received by: Diana Federico

Date/Time: 3/11/19 1935

Relinquished by: Diana Federico

Date/Time: 3/11/19 8:10

Received by: [Signature]

Date/Time: 3/11/19 1510

Relinquished by: \_\_\_\_\_

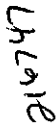
Date/Time: \_\_\_\_\_

Received by: \_\_\_\_\_

Date/Time: \_\_\_\_\_

\*\* In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.







9830 South 51<sup>st</sup> Street, Suite B-109 / PHOENIX, ARIZONA 85044 / 480-940-5294 or 800-362-3373 / FAX 480-893-1726  
emclab@emclabs.com

**LEAD (Pb) IN PAINT CHIP SAMPLES**  
**EMC SOP METHOD #L01/1 EPA SW-846 METHOD 7420**

<b>EMC LAB #:</b> L74040		<b>DATE RECEIVED:</b> 03/11/19			
<b>CLIENT:</b> TRC Solutions		<b>REPORT DATE:</b> 03/14/19			
		<b>DATE OF ANALYSIS:</b> 03/13/19			
<b>CLIENT ADDRESS:</b> 4105 SE International Way, Suite 505 Milwaukie, OR 97222		<b>P.O. NO.:</b>			
<b>PROJECT NAME:</b> BSD – Highland Park Middle School		<b>PROJECT NO.:</b> 332367.0001			
<b>EMC #</b> L74040-	<b>SAMPLE DATE /19</b>	<b>CLIENT SAMPLE #</b>	<b>DESCRIPTION</b>	<b>REPORTING LIMIT</b> (%Pb by weight)	<b>%Pb BY WEIGHT</b>
1	03/06	HPMS-P-01	Beige Interior Paint – Boiler Room	0.010	0.045

^ = Dilution Factor Changed \* = Excessive Substrate May Bias Sample Results **BRL** = Below Reportable Limits # = Very Small Amount Of Sample Submitted, May Affect Result

This report applies to the standards or procedures identified and to the samples tested only. The test results are not necessarily indicative or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. Unless otherwise noted, all quality control analyses for the samples noted above were within acceptable limits.

Where it is noted that a sample with excessive substrate was submitted for laboratory analysis, such analysis may be biased. The lead content of such sample may, in actuality, be greater than reported. EMC makes no warranty, express or implied, as to the accuracy of the analysis of samples noted to have been submitted with excessive substrate. Resampling is recommended in such situations to verify original laboratory results.

These reports are for the exclusive use of the addressed client and are rendered upon the condition that they will not be reproduced wholly or in part for advertising or other purposes over our signature or in connection with our name without special written permission. Samples not destroyed in testing are retained a maximum of sixty (60) days.

**ANALYST:**

Jason Thompson

**QA COORDINATOR:**

Kurt Kettler

# CHAIN OF CUSTODY

EMC Labs, Inc.  
9830 S. 51<sup>st</sup> St., Ste B-109  
Phoenix, AZ 85044  
(800) 362-3373 Fax (480) 893-1726

LAB#: <u>274040</u>
TAT: <u>3 days</u>
Rec'd: <u>3/11/19</u>

COMPANY NAME: **TRC SOLUTIONS**  
 4105 SE International Way, Suite 505  
 Milwaukie, Oregon 97222

CONTACT: **Ron Landolt** **Scan & Excel**  
 Phone/Fax: (503) 387-3251 / (503) 908-1318  
 Email: [rlandolt@trcsolutions.com](mailto:rlandolt@trcsolutions.com) and [mcuda@trcsolutions.com](mailto:mcuda@trcsolutions.com)

BILL TO: (If Different Location)  
 Phoenix, AZ

Now Accepting: **VISA - MASTERCARD**

Price Quoted: \$ \_\_\_\_\_ / Sample \$ \_\_\_\_\_ / Layers

**COMPLETE ITEMS 1-4: (Failure to complete any items may cause a delay in processing or analyzing your samples)**

**1. TURNAROUND TIME:** [4hr rush] [8hr rush] [1-Day] [2-Day] [3-Day] [5-Day] [6-10 Day]

\*\*\*\*Prior confirmation of turnaround time is required

\*\*\*\*Additional charges for rush analysis (please call marketing department for pricing details)

\*\*\*\*Laboratory analysis may be subject to delay if credit terms are not met

**2. TYPE OF ANALYSIS:** [Bulk-PLM] [Air-PCM] [Lead] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]

**3. DISPOSAL INSTRUCTIONS:** [Dispose of samples at EMC] / [Return samples to me at my expense]

(If you do not indicate preference, EMC will dispose of samples 60 days from analysis.)

**4. Project Name:** BSD- Highland Park Middle School

**P.O. Number:** \_\_\_\_\_ **Project Number:** 332367.0001

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No	AIR SAMPLE INFO / COMMENTS		
					ON	OFF	FLOW RATE
<u>1</u>	<u>HPMS-P-01</u>	<u>3-6-19</u>	<u>Beige interior Paint - Boiler Rm</u>	<u>Y N</u>			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			

**SPECIAL INSTRUCTIONS:**

Sample Collector: (Print) Math Cuda

(Signature) [Signature]

Relinquished by: [Signature] Date/Time: 3-8-19 1600

Received by: [Signature] Date/Time: 3/11/19 936

Relinquished by: [Signature] Date/Time: 3/11/19 11:05

Received by: [Signature] Date/Time: 3/11/19 11:55

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

\*\* In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.

## **Appendix C – Inspector Certification(s)**

---

# ***The Environmental Institute***

---

---

## ***Matthew Cuda***

---

Social Security Number - XXX-XX-8274  
TRC - 4105 SE International Way #505 - Milwaukie, Oregon 97222

*Has completed coursework and satisfactorily passed  
an examination that meets all criteria required for  
EPA/AHERA/ASHARA (TSCA Title II) Approved Reaccreditation*

### ***Asbestos in Buildings: Inspector Refresher***

***February 1, 2019***

Course Date

***17225***

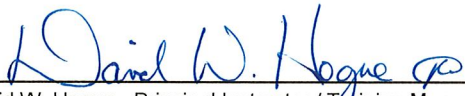
Certificate Number

***February 1, 2019***

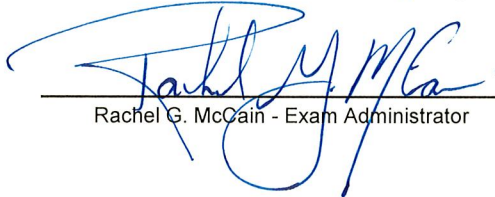
Examination Date

***January 31, 2020***

Expiration Date



David W. Hogue - Principal Instructor / Training Manager



Rachel G. McCain - Exam Administrator



(Approved by the ABIH Certification Maintenance Committee for 1/2 CM point - Approval #11-577)

(Florida Provider Registration Number FL49-0001342 - Course #FL49-0002805)

TEI - 1841 West Oak Parkway, Suite F - Marietta, Georgia 30062 - (770) 427-3600 - [www.tei-atl.com](http://www.tei-atl.com)



**STATE OF OREGON  
CONSTRUCTION CONTRACTORS BOARD  
LEAD BASED PAINT RISK ASSESSOR LICENSE**

LICENSE NUMBER: 9152079-RA

This document certifies that

RONALD ALAN LANDOLT  
4105 SE INTERNATIONAL WAY STE 505  
MILWAUKIE OR 97222

is licensed in accordance with Oregon Law as a Lead Based Paint Risk Assessor

**License Details:**

LICENSE NO.: 9152079-RA  
EXPIRATION DATE: 10/24/2019



15860 SW Upper Boones Ferry Rd  
Lake Oswego, OR 97035  
Phone 503.620.4300  
Fax 503.620-4238  
[airreps.com](http://airreps.com)

3990 Roosevelt Blvd. Suite A  
Eugene, OR 97402  
Phone 503.620.4300  
Fax 503.620-4238

## SUBMITTAL

Project: Highland Park Middle School  
Beaverton, OR

Engineer: MFIA  
Portland, OR

Specification Section: Packaged Water Chillers

Manufacturer: 

<u>Quantity</u>	<u>Tag</u>	<u>Model</u>
1	CH-1	AGZ170E

- Initial charge of R-410a refrigerant and oil
- Rotary scroll compressors
- Two independent refrigerant circuits
- Microchannel condenser coils
- Ultra-low noise direct drive condenser fans
- Fan cycling head pressure control to 32°F minimum
- Stainless steel brazed plate evaporator with thermal insulation
- Factory installed heaters for freeze protection to -20°F
- Factory installed thermal dispersion flow switch and factory strainer
- DDC controls with open protocol interface (BACnet MS/TP)
- Single point power connection with main disconnect switch and circuit protection
- 65 SCCR rating, factory coil louvers and base wire guards
- Factory startup service
- 5 year standard parts and labor warranty

### Notes:

1. Please verify voltage – 460V/60/3
2. Labor warranty for 2-5<sup>th</sup> year requires regular maintenance and maintenance logs. Logs must conform to manufactures regular maintenance requirements.
3. Please confirm bacnet connection type (MSTP or IP – currently submittted as MSTP)

Rob Grace  
Oregon Air Reps, Inc.



# **SUBMITTAL DATA**

for

Highland Park ES

Prepared for

Beaverton School District

Prepared by

Rob Grace

3/19/2019



## Table of Contents

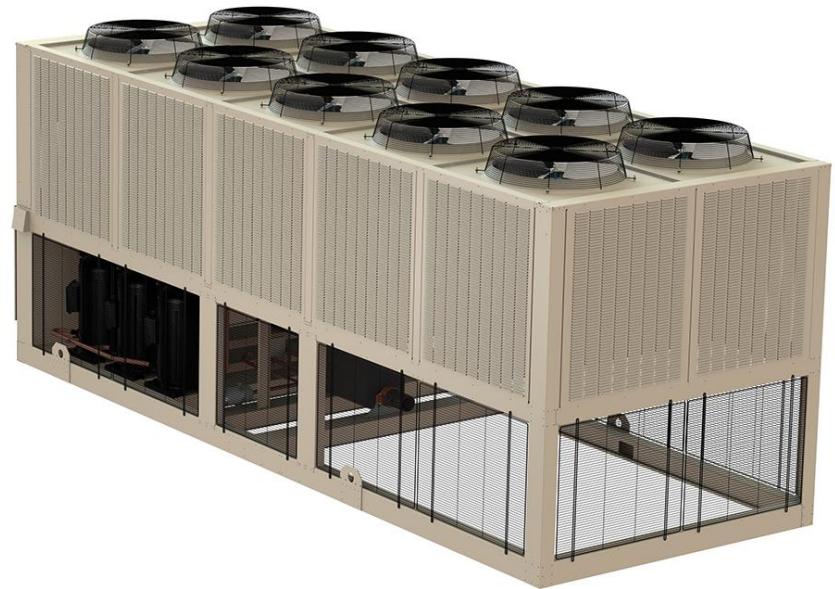
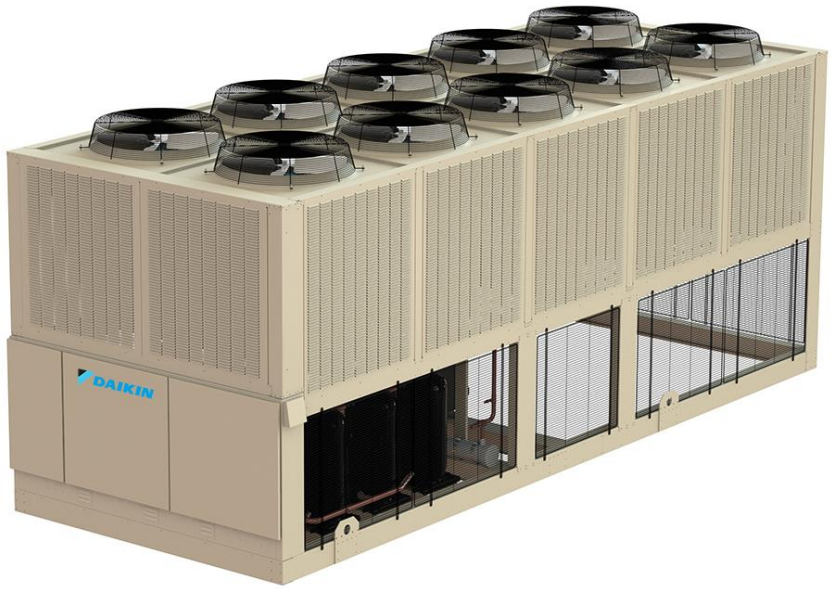
AGZ170E_PKG_MCC_Drawing for CH-1 .....	3
AGZ-E Close Spacing_Drawing for CH-1 .....	5
AGZ140-180E_CndLuv_BsGrl_PntBs_Drawing for CH-1 .....	10
AGZE_Clearance_MCC_Drawing for CH-1.....	12
Technical Data Sheet for CH-1.....	13
Specification for CH-1 .....	16

0A

A water strainer must be installed at the inlet of the evaporator to protect it from damage. Please refer to the IOM for additional details. IT IS RECOMMENDED THAT THE SIDE LOCATIONS BE USED FOR POWER ENTRY WIRE SIZES LARGER THAN 350 MCM.

No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

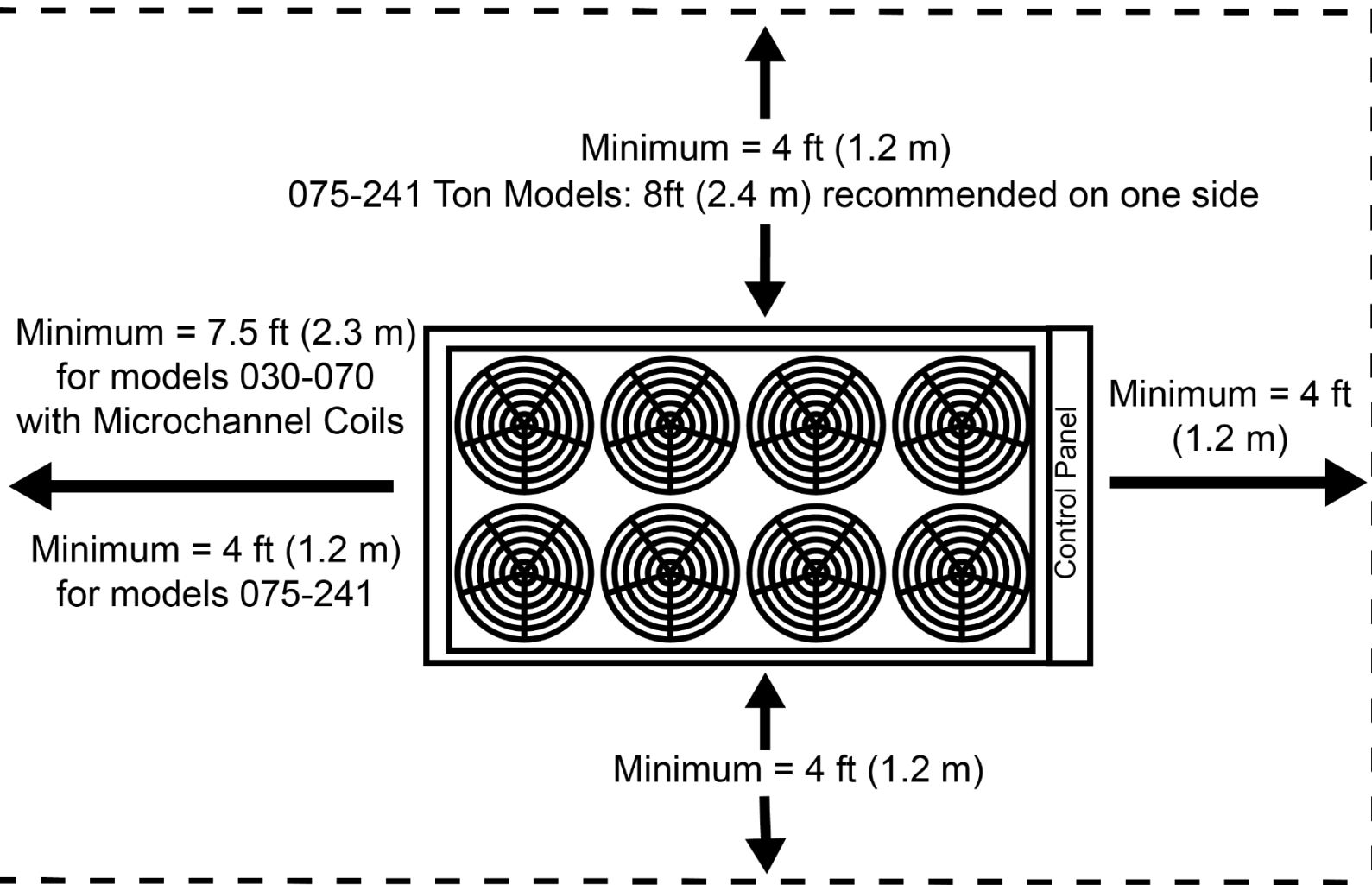
# AGZ-E Guards: Condenser Coil Louvers, Base Wire Grilles, Painted Base




## Diagram Notes

Diagram simulates wrap, grille and louver options as selected only. Refrigeration components may vary depending on selected options.

## AGZ-E Service Clearance



\*NOTE: Additional clearance is required for proper airflow. Please consult Close Spacing drawings and IOM for additional details.

Product Drawing	Unit Tag: CH-1			Sales Office: Air Reps, LLC (Oregon)			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com      Software Version: 09.60
Product: Air-Cooled Scroll Chiller	Project Name: Highland Park ES			Sales Engineer: Robert Grace			
Model: AGZ-E	Mar. 19, 2019	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 1.0"	Dwg Units: in [mm]	
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.							

# Technical Data Sheet for CH-1

Job Information		Technical Data Sheet
Job Name	Highland Park ES	
Date	3/19/2019	
Submitted By	Robert Grace	
Software Version	09.60	
Unit Tag	CH-1	



Unit Overview					
Model Number	Capacity ton	Voltage	Unit Starter Type	ASHRAE 90.1	LEED Enhanced Refrigerant Management Credit <sup>1</sup>
AGZ170E	164.5	460 V / 60 Hz / 3 Ph	Across the Line	'07, '10, '13 & '16	Pass

\* IPLV reflects AHRI standard rating conditions and does not change with user defined conditions.

<sup>1</sup> Previously LEED EA Credit 4 Under LEED V2009

Unit								
Unit Type				Platform			Unit Revision	
Air-Cooled Scroll Compressor Chiller				Packaged			00	
Head Pressure				Tubing				
Fantrol Only (32°F Min)				Replaceable Filter Dryer with Discharge & Liquid Valves, no HGBP				
Unit Controls				Display				
Electronic Expansion Valve				On Controller only				
Refrigerant Type				Refrigerant Weight				
R410A				160 lb (per unit)				
Pump Controls								
Dual Evaporator Pumps - Dual Control Output								
Approval								
ETL/cETL, AHRI & ASHRAE 90.1								
Evaporator								
Water Volume:		17.1 gal						
Connection Hand:		Universal Connection - Facing out back						
Connection Size:		4.0 in						
Insulation:		Single Layer Insulation to Suction at each Compressor						
Entering Fluid Temperature	Leaving Fluid Temperature	Fluid Type	Glycol Concentration	Fluid Flow	Fluid Flow (with glycol) Min / Max	Pressure Drop	Pressure Drop (with glycol) Min / Max	Fouling Factor
56.00 °F	44.00°F	Water & Propylene	20.0 %	342.5 gpm	252.5 / 673.4 gpm	14.0 ft H <sub>2</sub> O	5.60 / 37.6 ft H <sub>2</sub> O	0.000100 °F.ft <sup>2</sup> .h/Btu
Note: Evaporator Pressure Drop includes Factory Installed Strainer. Pressure drop without strainer is 10.1. Minimum flow and Minimum DP are based on a Constant Flow Pumping System Type.								
Condenser								
Coil Fins:		MicroChannel						
Guards:		Condenser Coil Louvers & Base Frame Wire Grilles						
Design Ambient Air Temperature		Altitude		Fan Diameter			Minimum Design Ambient Temperature	
92.0 °F		0.000 ft		30.0 in			32.0 °F	

# Technical Data Sheet for CH-1

Unit Performance											
Design											
Capacity			Input Power			Efficiency (EER)			IPLV.IP* (EER)		
164.5 ton			190.0 kW			10.39 Btu/W.h			16.13 Btu/W.h		
Performance Points rated at AHRI Ambient Relief											
Unit					Evaporator				Condenser		
Point #	% Load	Capacity ton	Input Power kW	Efficiency (EER) Btu/W.h	Fluid Flow gpm	Pressure Drop ft H <sub>2</sub> O	Entering Fluid Temperature °F	Leaving Fluid Temperature °F	Ambient Air Temperature °F	Altitude ft	
1	100.0	164.5	190.0	10.39	342.5	10.1	56.00	44.00	92.0	0.000	
2	90.0	148.1	150.2	11.83	342.5	10.1	54.80	44.00	86.5	0.000	
3	80.0	131.6	118.5	13.33	342.5	10.1	53.60	44.00	80.9	0.000	
4	70.0	115.2	91.37	15.12	342.5	10.1	52.40	44.00	75.3	0.000	
5	60.0	98.70	69.07	17.15	342.5	10.1	51.20	44.00	69.8	0.000	
6	50.0	82.25	57.15	17.27	342.5	10.1	50.00	44.00	64.3	0.000	
7	40.0	65.80	46.63	16.93	342.5	10.1	48.80	44.00	58.7	0.000	
8	30.0	49.35	32.40	18.28	342.5	10.1	47.60	44.00	55.0	0.000	
9*	20.0	32.90	19.96	19.78	342.5	10.1	46.40	44.00	55.0	0.000	
10	10.0	This load point is below the chiller minimum load.									
* IPLV reflects AHRI standard rating conditions and does not change with user defined conditions											
Note: Evaporator Pressure Drop in this table does Not include strainer. For strainer pressure drop data see 'Evaporator' table on page 1.											
Sound (without insulation)											
Sound Pressure (at 30 feet)											
63 Hz dB	125 Hz dB	250 Hz dB	500 Hz dB	1 kHz dB	2 kHz dB	4 kHz dB	8 kHz dB	Overall dBA	75% Load dBA	50% Load dBA	25% Load dBA
69	71	69	67	64	61	60	58	70	69	67	66
Sound Power											
63 Hz dB	125 Hz dB	250 Hz dB	500 Hz dB	1 kHz dB	2 kHz dB	4 kHz dB	8 kHz dB	Overall dBA	75% Load dBA	50% Load dBA	25% Load dBA
96	98	96	94	91	88	88	85	97	96	94	93
Octave band is non 'A' weighted and overall readings are 'A' weighted. Sound data rated in accordance with AHRI Standard-370.											
Physical											
Unit											
Length*		Height		Width*		Shipping Weight*		Operating Weight*			
238 in		99 in		88 in		7670 lb		7807 lb			
*Shipping and Operating Weights include the below Option weights only and do not include the weights of any Accessories. Contact Chiller Applications for additional information.											
Option Weights											
Louvers:		500 lb									
Total:		500 lb									

## Technical Data Sheet for CH-1

### Electrical

Unit Electrical Data						
Voltage	Starter Type	Fan Motor Quantity		LRA Fan Motor (each)		FLA Fan Motors (each)
460 V / 60 Hz / 3 Ph	Across the Line	10		18 A		3.6 A
Power Connection Type:	High Short Circuit Current Rating with Single Point Disconnect Switch and Circuit Protection					
Short Circuit Current Rating:	65 kA					
Single Point Power Connection						
MCA:	354.8 A					
Fuse Size (recommended):	400 A					
Fuse Size (maximum):	400 A					
Connector Wire Range:	(2) 3/0-500MCM					
Compressor Electrical Data						
Compressor Type		Compressor Quantity			Starter Type	
Scroll		6			Across the Line	
Circuit #:	1			2		
Compressor #:	1	3	5	2	4	6
RLA:	37.8 A	37.8 A	57.2 A	57.2 A	57.2 A	57.2 A
Inrush Current:	320 A	320 A	310 A	310 A	310 A	310 A

Note: Power wiring connections to the chiller may be done with either copper or aluminum wiring. Wire should be sized per NEC and/or local codes. Wire sizing and wire count must fit in the power connection lug sizing listed in latest installation manual. Please contact your local sales office for more information.

### Options

Basic Unit	
Suction Shut-off Valve:	Included
Evaporator Strainer:	Factory Installed Evaporator Strainer – 175 PSI Pressure Rating
Control	
Communication:	BACnet MS/TP
Electrical	
Water Flow Indicator:	Thermal Dispersion Type

### Warranty

Unit Startup	By Others
Standard Warranty:	1st Year Entire Unit Parts & Labor
Extended Compressor Warranty:	Compressor Only; extended 4 years parts & labor (5 Years Total)

### AHRI Certification



Certified in accordance with the AHRI Air-Cooled Water-Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI). Unit containing freeze protection fluids in the condenser or in the evaporator with a leaving chilled fluid temperature above 32°F [0°C] is certified when rated per the Standard with water. Certified units may be found in the AHRI Directory at [www.ahridirectory.org](http://www.ahridirectory.org).

## PART 1: GENERAL

### 1.01 CHILLER COMPONENTS

#### A. Compressor

1. The compressors shall be sealed hermetic, scroll type with crankcase oil heater and suction strainer. The compressor motor shall be refrigerant gas cooled, high torque, hermetic induction type, two-pole, with inherent thermal protection on all three phases and shall be mounted on RIS vibration isolator pads. The compressors shall be equipped with an internal module providing compressor protection and communication capability.

#### B. Evaporator

1. The evaporator shall be a compact, high efficiency, dual circuit, brazed plate-to-plate type heat exchanger consisting of parallel stainless steel plates.
2. The evaporator shall be protected with an external, electric resistance heater plate and insulated with 3/4" (19mm) thick closed-cell polyurethane insulation. This combination shall provide freeze protection down to -20°F (-29°C) ambient air temperature.
3. The water-side maximum design pressure shall be rated at a minimum of 653 psig (4502 kPa). Evaporators shall be designed and constructed according to, and listed by Underwriters Laboratories (UL).

#### C. Condenser

1. Condenser fans shall be propeller type arranged for vertical air discharge and individually driven by direct-drive fan motors. The fans shall be equipped with a heavy-gauge vinyl-coated fan guard. Fan motors shall be TEAO type with permanently lubricated ball bearings, inherent overload protection, three-phase, direct-drive, 1140 rpm. Each fan section shall be partitioned to avoid cross circulation.
2. Coil shall be microchannel design and shall have a series of flat tubes containing multiple, parallel flow microchannels layered between the refrigerant manifolds. Tubes shall be 9153 aluminum alloy. Tubes made of 3102 alloy or other alloys of lower corrosion resistance shall not be accepted. Coils shall consist of a two-pass arrangement. Each condenser coil shall be factory leak tested with high-pressure air under water. Coils shall withstand 1000+ hour acidified synthetic sea water fog (SWAAT) test (ASTM G85-02) at 120°F (49°C) with 0% fin loss and develop no leaks.

#### D. Refrigerant Circuit

1. Each of the two refrigerant circuits shall include a replaceable-core refrigerant filter-drier, sight glass with moisture indicator, liquid line solenoid valve (no exceptions), expansion valve, and insulated suction line.

#### E. Construction

1. Unit casing and all structural members and rails shall be fabricated of pre-painted or galvanized steel. Painted parts shall be able to meet ASTM B117, 1000-hour salt spray test.
2. Upper section of unit shall have protective and decorative louvers covering the coils and unit end; base section of unit shall have protective, 12 GA, PVC-coated, wire grille guards and have painted steel wraps enclosing the coil end sections and piping.

#### F. Control System

1. A centrally located weatherproof control panel shall contain the field power connection points, control interlock terminals, and control system. Box shall be designed in accordance with NEMA 3R rating. Power and starting components shall include factory circuit breaker for fan motors and control circuit, individual contactors for each fan motor, solid-state compressor three-phase motor overload protection, inherent fan motor overload protection and two power blocks (one per circuit) for connection to remote, contractor supplied disconnect switches. Hinged access doors shall be lockable. Barrier panels or separate enclosures are required to protect against accidental contact with line voltage when accessing the control system.
2. Shall include high short circuit current rating of 65,000 amps (25,000 amps at 575Volt) with single-point disconnect switch

#### G. Unit Controller



1. An advanced DDC microprocessor unit controller with a 5-line by 22-character liquid crystal display provides the operating and protection functions. The controller shall take preemptive limiting action in case of high discharge pressure or low evaporator pressure. The controller shall contain the following features as a minimum:
2. The unit shall be protected in two ways: (1) by alarms that shut the unit down and require manual reset to restore unit operation and (2) by limit alarms that reduce unit operation in response to some out-of-limit condition. Shut down alarms shall activate an alarm signal.
3. Shutdown Alarms
  - a. No evaporator water flow (auto-restart)
  - b. Sensor failures
  - c. Low evaporator pressure
  - d. Evaporator freeze protection
  - e. High condenser pressure
  - f. Outside ambient temperature (auto-restart)
  - g. Motor protection system
  - h. Phase voltage protection (Optional)
4. Limit Alarms
  - a. Condenser pressure stage down, unloads unit at high discharge pressures.
  - b. Low ambient lockout, shuts off unit at low ambient temperatures.
  - c. Low evaporator pressure hold, holds stage #1 until pressure rises.
  - d. Low evaporator pressure unload, shuts off one compressor.
5. Unit Enable Section
  - a. Enables unit operation from either local keypad, digital input, or BAS
6. Unit Mode Selection
  - a. Selects standard cooling, ice, glycol, or test operation mode
7. Analog Inputs:
  - a. Reset of leaving water temperature, 4-20 mA\
  - b. Current Limit
8. Digital Inputs
  - a. Unit off switch
  - b. Remote start/stop
  - c. Flow switch
  - d. Ice mode switch, converts operation and setpoints for ice production
  - e. Motor protection
9. Digital Outputs
  - a. Shutdown alarm; field wired, activates on an alarm condition, off when alarm is cleared
  - b. Evaporator pump; field wired, starts pump when unit is set to start
10. Condenser fan control - The unit controller shall provide control of condenser fans based on compressor discharge pressure.
11. Building Automation System (BAS) Interface
  - a. Factory mounted DDC controller(s) shall support operation on a BACnet®, Modbus® or LONMARK® network via one of the data link / physical layers listed below as specified by the successful Building Automation System (BAS) supplier.
  - b. BACnet MS/TP master (Clause 9)
  - c. BACnet IP, (Annex J)
  - d. BACnet ISO 8802-3, (Ethernet)
  - e. LONMARK FTT-10A. The unit controller shall be LONMARK® certified.

- f. The information communicated between the BAS and the factory mounted unit controllers shall include the reading and writing of data to allow unit monitoring, control and alarm notification as specified in the unit sequence of operation and the unit points list.
- g. For chillers communicating over a LONMARK network, the corresponding LONMARK eXternal Interface File (XIF) shall be provided with the chiller submittal data.
- h. All communication from the chiller unit controller as specified in the points list shall be via standard BACnet objects. Proprietary BACnet objects shall not be allowed. BACnet communications shall conform to the BACnet protocol (ANSI/ASHRAE135-2001). A BACnet Protocol Implementation Conformance Statement (PICS) shall be provided along with the unit submittal.

#### 1.02 OPTIONS AND ACCESSORIES

A. The following options are to be included:

- 1. Low Ambient Control: Provide fan cycling control to allow unit operation down to 32°F
- 2. BAS interface module to provide interface with the BACnet MSTP protocol.

3. The following accessories, if selected, are to be included:

- a. Factory-mounted thermal dispersion type flow switch
- b. Wye strainer, to be installed at the evaporator inlet and sized for the design flow rate , with perforation diameter of 0.063" with blowdown valve and Victaulic couplings (factory mounted or field installed)

### PART 2: EXECUTION

#### 2.01 INSTALLATION

- A. Install in strict accordance with manufacturer's requirements, shop drawings, and contract documents.
- B. Adjust and level chiller in alignment on supports.
- C. Coordinate electrical installation with electrical contractor.
- D. Coordinate controls with control contractor.
- E. Install a field-supplied or optional manufacturer-supplied strainer in the chilled water return line at the evaporator inlet that meets manufacturer perforation size specifications.



15860 SW Upper Boones Ferry Rd  
Lake Oswego, OR 97035  
503-620-4300



## National IPA PROPOSAL

<b>To:</b>	Beaverton School District	<b>Date:</b>	March 7, 2019
<b>Attention:</b>	Chris Hansen, Angela Knotts, Brent Tolliver	<b>Quote No:</b>	R150505-OR-30150
<b>Project:</b>	Highland Park ES	<b>Revision No:</b>	
<b>Location:</b>	Beaverton, OR	<b>Addendums:</b>	n/a – 02/07/19 plan set

Air Reps, LLC is pleased to quote the following equipment for this project:

	<b>CABINET UNIT HEATER/ FAN COIL</b>
<b>Manufacturer:</b>	Daikin Applied (14 pcs)
	<ul style="list-style-type: none"> <li>- Floor mounted cabinet unit with painted finish</li> <li>- Top discharge, bottom front RA with grille</li> <li>- FC-C-10 is a vertical hideaway unit (galv steel finish)</li> <li>- Drain pan – FC-C-10 only</li> <li>- Direct drive ECM motor, disconnect</li> <li>- Hot water coil</li> </ul>
<b>Lead Time:</b>	Current production lead-time is 8-9 weeks
<b>Exclusions:</b>	Controls, piping packages, valves, install, seismic calc's
<b>Net Total</b>	<b>\$ 32,589 total FFA</b> <b>Add \$891 for an additional set of filters</b>

	<b>UNIT VENTILATORS – UV's</b>
<b>Manufacturer:</b>	Daikin Applied (44 pcs)
	<ul style="list-style-type: none"> <li>- Qty-32 model UAVV9H15 with draft stop RA (1500 CFM, vertical)</li> <li>- Qty-6 model UAVV9H15 with front RA (1500 CFM, vertical)</li> <li>- Qty-5 model UAVV9H07 with front RA (750 CFM, vertical)</li> <li>- Qty-1 model UAHV9H07 with front RA (750 CFM, horizontal)</li> <li>- Welded frame, painted galvanized steel 1" panels</li> <li>- 16 7/8" deep cabinet – no adaptor backs (vertical units)</li> <li>- Standard factory colors</li> <li>- Economizer dampers – actuators by others</li> <li>- 3 speed ECM motor, disconnect switch</li> <li>- 4 row hydronic coil with stainless steel drain pan</li> <li>- 1" MERV 8 filter – one set</li> <li>- 6" sub base for 36" tall counters, 2" sub base for 32" counters or no counters</li> </ul>

**BY Rob Grace**

**AIR REPS, LLC.**

ALL QUOTATIONS SUBJECT TO ACCEPTANCE WITHIN 30 DAYS AND DO NOT INCLUDE STATE, FEDERAL OR MUNICIPAL TAXES. Payment terms are thirty (30) net from date of invoice subject to 1% per month increase and subject to acceptance by Credit Department. Agreement subject to approval of Manufacturer. We cannot be responsible for non-delivery due to strikes, delays of carriers or other causes beyond our control. All claims must be made within 5 days from receipt of goods. We reserve the right to correct for clerical errors. All quotations are made for prompt acceptance, subject to the availability of materials and revision of prices in the event of labor costs or materials prices advance. Purchaser agrees to pay all collection charges, including reasonable attorney's fees at a legal rate of interest.

	<ul style="list-style-type: none"> <li>- 1 year parts warranty (2 year warranty if ordered prior to 3/29/19)</li> <li>- Please note – A 750 CFM UV is quoted for the office in room C-13 – this is not shown on the plans</li> <li>- Please note – Room C-13 is scheduled with a single UV but Qty-2 are existing and Qty-2 are quoted</li> </ul>
Lead Time:	Current production lead-time is 6-7 weeks – this will likely extend to 10 weeks closer to summer
Exclusions:	Controls, seismic calc's, piping packages, valves, actuators, install, OSA louver
<b>Net Total</b>	<b>\$ 142,042 total FFA</b> <b>Add \$1,663 for an additional set of filters for the UV's</b>

	<b>AIR COOLED CHILLER</b>
Manufacturer:	Daikin Model AGZ170E Air Cooled Scroll Compressor Chiller
Quantity / Tag:	(1 ea) TAG: CH-01
Voltage:	460/60/3-phase
	<ul style="list-style-type: none"> <li>- Nominal 170 ton chiller, actual tonnage = 164.5 @ 92 ambient, 44-56 water temp, 20% PG</li> <li>- Dual independent refrigerant circuits</li> <li>- Scroll compressors</li> <li>- Aluminum Microchannel condenser coils, condenser louvers, base wire guards</li> <li>- Stainless steel brazed plate type evaporator</li> <li>- Factory charged with R410A refrigerant, suction and discharge service valves</li> <li>- Premium efficiency DC condenser fan motors</li> <li>- Single point power connection with non-fused disconnect switch, 10 KAIC rating</li> <li>- MicroTech III safety and operating controls with BacNet Interface</li> <li>- Thermal dispersion flow switch <b>and factory strainer</b></li> <li>- 1-year parts &amp; labor warranty</li> <li>- 5-year compressor parts and labor warranty</li> <li>- Factory start-up service</li> </ul>
Lead Time:	1. The current production lead-time is 10-11 weeks + transit from Staunton, VA
Notes:	1. External "waffle pad" isolation is provided – anchors and seismic calc's are by others
<b>Net Total</b>	<b>\$ 78,204</b> <b>Add \$4,867 for VFD driven condenser fans and high efficiency IPLV – 17.2 IPLV in lieu of standard 16.1 IPLV</b>

This proposal is in accordance with Region 4 ESC contract number R150505 available via National IPA

Thank you,

Air Reps LLC.

**Terms and Conditions:**

Unless specifically listed above, Air Reps excludes rigging, installation labor, piping or wiring external to the equipment, labor warranties, external controls, filters, valves or actuators, electrical disconnects, field commissioning or owner training.

This proposal is valid for 30 days and is based on shipment of all products within a six (6) month time frame. If product is not shipped within six months of PO award, Air Reps reserves the right to pass through escalation charges and re-quote as necessary.

All Freight claims are the responsibility of the entity signing the freight bill – please inspect your packages carefully. All claims must be made within 5 days from receipt of goods.

Thank you for your consideration of this proposal. If you have any questions or require any additional details, please contact us.

Daikin Applied National IPA Cooperative Contract R510505 included for reference, available at:

<https://www.omniapartners.com/hubfs/PUBLIC%20SECTOR/Supplier%20Information/Daikin%20Applied/Signed%20contract.pdf>

# DRAFT AIA® Document A101™ – 2017

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

**AGREEMENT** made as of the date of full execution by the Owner.

**BETWEEN** the Owner:

Beaverton School District #48J  
16550 SW Merlo Road  
Beaverton, OR 97003

and the Contractor:

<< >> >

<< >

<< >

<< >

CCB # \_\_\_\_\_

for the following Project:

<< >> >

<< >

<< >

<< >

The Architect:

<< >> >

<< >

<< >

<< >

[All references to and responsibilities of Architect are to be completed by Owner or Owner's contracted Engineering Firm.]

1159322\v6

The Owner and Contractor agree as follows.

### **ADDITIONS AND DELETIONS:**

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed.

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

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

**ELECTRONIC COPYING** of any portion of this AIA® Document to another electronic file is prohibited and constitutes a violation of copyright laws as set forth in the footer of this document.

## TABLE OF ARTICLES

- 1 THE CONTRACT DOCUMENTS
- 2 THE WORK OF THIS CONTRACT
- 3 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION
- 4 CONTRACT SUM
- 5 PAYMENTS
- 6 DISPUTE RESOLUTION
- 7 TERMINATION OR SUSPENSION
- 8 MISCELLANEOUS PROVISIONS
- 9 ENUMERATION OF CONTRACT DOCUMENTS

### ARTICLE 1 THE CONTRACT DOCUMENTS

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

### ARTICLE 2 THE WORK OF THIS CONTRACT

§ 2.1 The Contractor shall fully execute the Work described in the Contract Documents or incidental, necessary, or reasonably inferable therefrom, except as specifically indicated in the Contract Documents to be the responsibility of others.

#### § 2.2 THE OWNER'S RELIANCE ON THE CONTRACTOR AND SUBCONTRACTORS

§ 2.2.1 The Contractor accepts the relationship of trust and confidence established by this Agreement and covenants with the Owner to cooperate with the Architect and exercise the Contractor's skill and judgment in furthering the interests of the Owner; to furnish efficient construction administration, management services and supervision; to furnish at all times an adequate supply of workers and materials; and to perform the Work in an expeditious and economical manner consistent with the Owner's interests. The Owner and Contractor acknowledge and agree that (1) all Work performed by the Contractor and the Subcontractors shall be performed in the interests of the Owner and for its benefit, (2) the Contractor and the Subcontractors are authorized by the Owner to exercise their own independent, professional and trade judgments in performing their contractual obligations pursuant to this Section 2.2 on behalf of the Owner, (3) the Owner will be relying on the Contractor and the Subcontractors to perform their obligations consistent with this Section 2.2 and (4), as a result, the Contractor and Subcontractors at all tiers shall owe a duty to the Owner to exercise reasonable care and to avoid negligence in performing their obligations under the Contract and on the Project. The Contractor shall incorporate, and shall cause to be incorporated, into all subcontracts with Subcontractors a provision equivalent to this Section 2.2.

### ARTICLE 3 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION

§ 3.1 The date of commencement of the Work shall be the date fixed in a notice to proceed issued by the Owner.

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

§ 3.3 Subject to adjustments of the Contract Time as provided in the Contract Documents, the Contractor shall achieve Substantial Completion of the entire Work not later than \_\_\_\_\_ and Final Completion of the entire Work not later than \_\_\_\_\_ (collectively, the "Contract Time"). In addition to achieving Substantial Completion and Final Completion by the dates required herein, the Contractor shall achieve sufficient completion of



the Work so that Owner has full access to the Premises for the purpose of Owner's installation of furniture, fixtures, cabling and equipment that are not included in the Work not later than \_\_\_\_ days prior to the earlier of the required or actual Substantial Completion date ("Access Completion"). [ADJUST FOR PHASED DELIVERIES]

§ 3.3.1 The Contractor shall perform the Work diligently and continuously consistent with the Contract Time and Construction Schedule. Time is of the essence in the performance of the Work.

#### § 3.4 ACCELERATION OF THE WORK

§ 3.4.1 If during the course of construction the Owner or Architect determines that the performance of the Work has not progressed or reached the level of completion required by the current, approved Construction Schedule, the Owner shall have the right to order the Contractor to take corrective measures as necessary to restore the progress of the construction to the requirements of such schedule, including but not limited to (1) working additional shifts or overtime, (2) finishing additional labor, services, materials, equipment and facilities and (3) other similar acceleration measures. The costs incurred by the Contractor pursuant to this Section 3.4.1 shall be paid by the Contractor.

§ 3.4.2 In the circumstances referenced in Section 3.4.1, and without limiting the Owner's rights under that Section, upon demand by the Owner the Contractor shall prepare and submit to the Owner and Architect a Recovery Schedule, in a form and providing sufficient detail to explain and display how the Contractor intends to reschedule the Work to regain compliance with the Construction Schedule during an agreed Recovery Period.

§ 3.4.2.1 Within seven (7) days after the Contractor's receipt of the Owner's demand for a Recovery Schedule, the Contractor shall present the Recovery Schedule to the Owner and Architect. The Recovery Schedule shall represent the Contractor's best judgment as to how the Work should be made to comply with the Construction Schedule within the agreed Recovery Period. The Recovery Schedule shall be prepared to a similar level of detail as the Contractor's construction schedule.

§ 3.4.2.2 Five (5) days prior to the expiration of the agreed Recovery Period, the Owner, Architect and Contractor shall confer to determine whether the Contractor has regained compliance with the Construction Schedule. If in the opinion of the Owner the Contractor is still not in compliance with the Construction Schedule, the Contractor shall prepare another Recovery Schedule pursuant to Sections 3.4.2 and 3.4.2.1, to take effect during the immediate subsequent agreed Recovery Period. If in the opinion of the Owner the Contractor has regained compliance with the Construction Schedule, the use of the Construction Schedule shall be resumed.

§ 3.5 Nothing in this Article 3 or any other provision of this Agreement shall be construed or applied to prevent or bar the Owner from directing the Contractor to accelerate the Work pursuant to the General Conditions.

#### ARTICLE 4 CONTRACT SUM

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

§ 4.2 The Contract Sum is based upon the following alternates, if any, which are described in the Contract Documents and are hereby accepted by the Owner:

*(State the numbers or other identification of accepted alternates. If the bidding or proposal documents permit the Owner to accept other alternates subsequent to the execution of this Agreement, attach a schedule of such other alternates showing the amount for each and the date when that amount expires.)*

« »

§ 4.3 Unit prices, if any:

*(Identify and state the unit price; state quantity limitations, if any, to which the unit price will be applicable.)*

Item	Units and Limitations	Price Per Unit (\$0.00)

Unless expressly stated otherwise herein, unit prices cover the entire cost of material, labor, equipment, shipping, insurance, installation, and overhead, fees and profit.

§ 4.4 Allowances included in the Contract Sum, if any:  
(Identify allowance and state exclusions, if any, from the allowance price.)

Item	Price

#### § 4.5 Liquidated Damages

§ 4.5.1 The Contractor acknowledges that the Owner will incur significant damages if the Project is not completed within the Contract Time, including without limitation, damages in the form of: inability to use the Project and all related facilities (i.e., “loss of use”); delay costs for completion of portions of the Project or related projects to be constructed by the Owner or the Owner’s separate contractors; or costs of extended services of the Owner’s project management staff, outside construction management firms, Architect, any separate contractors and consultants, and others performing work or services related to the Project. In consideration of the factors set out in this Section 4.5.1, the Contractor acknowledges and agrees that time is particularly of the essence in the Contractor’s performance of the Work in accordance with the agreed date of commencement of the Work, the agreed dates of Access Completion, Substantial Completion and Final Completion of the Work, and the approved Construction Schedule. The Owner will incur serious and substantial special, incidental and consequential damages if Access Completion, Substantial Completion and Final Completion of the Work do not occur within the respective specified dates. It would be difficult if not impossible to determine the amount of such damages. Consequently, provisions for liquidated damages as a reasonable estimate of loss are included in the Contract Documents. Such liquidated damages are a reasonable estimate of actual damages from loss of use delay and are not a penalty. The Owner’s right to liquidated damages for delay is not affected by partial completion, occupancy, or beneficial occupancy. If the Work is to be performed in phases, with separate dates set forth elsewhere in the Contract Documents, then the liquidated damages of this Section shall apply separately to each such phase. The liquidated damages provisions herein are intended to be in addition to every other remedy enforceable at law, equity, or under this Contract, including without limitation the right to collect actual damages in any case where liquidated damages are unenforceable or otherwise unavailable. The provisions shall not relieve or release the Contractor from liability for any and all damage or damages suffered by the Owner due to other breaches of the Contract or suffered by separate contractors or under the indemnification and warranty provisions of this Contract, that are not breaches expressly covered by liquidated damages.

#### § 4.5.2 Loss of Use Liquidated Damages

§ 4.5.2.1 The Owner and Contractor acknowledge and agree that if Substantial Completion of the Work is not achieved by the Contract Time for Substantial Completion, or Access Completion is not achieved by the required date for Access Completion, the amount of the Owner’s actual loss of use damages (as described in Section 4.5.1 above) will be difficult, impractical or impossible to determine. Accordingly, the parties agree that if Access Completion or Substantial Completion is not achieved by the agreed date of Access Completion or Substantial Completion (as the case may be) as may be adjusted pursuant to the Contract Documents, the Contractor shall pay to the Owner as liquidated damages for the loss of use of the Project the following amounts: the sum of \_\_\_\_\_ Dollars (\$\_\_\_\_\_) for each partial day or full day of delay beyond the deadline for Access Completion or Substantial Completion. [Liquidated damages shall be the greater of the two numbers, so for example if Access Completion is 3 days late and Substantial Completion is 2 days late, 3 days of liquidated damages shall apply.] *Modify as necessary for each Contract. LDs can be different for Access Completion and Substantial Completion based on the project.*

§ 4.5.2.2 The parties further acknowledge and agree that the Contractor’s obligation to pay liquidated damages under this Section 4.5.2 shall be in lieu of the obligation to pay actual delay damages for the loss of use damages in connection with Access Completion and Substantial Completion. The parties agree that the daily rate agreed to above is reasonable in comparison to the approximate scope of actual delay damages for loss of use that the parties anticipate as of the time of execution of this Agreement, and that the payment of such liquidated damages is not intended to be a penalty or forfeiture. The parties further acknowledge that these liquidated damages are meant to reimburse the Owner only for Access Completion and/or Substantial Completion loss of use delay damages and that the Owner reserves the right to claim other types of damages against Contractor resulting from delays, including but not limited to other delay damages. The Contractor’s obligation to pay liquidated damages for the applicable period shall not require Owner’s establishment of any actual damages for such delay.

### § 4.5.2.3 Withholding of Liquidated Damages

The Owner may withhold liquidated damages from any progress or final payment.

## ARTICLE 5 PAYMENTS

### § 5.1 PROGRESS PAYMENTS

§ 5.1.1 Based upon Applications for Payment submitted to the Owner and Architect by the Contractor and Certificates for Payment issued by the Architect, the Owner shall make progress payments on account of the Contract Sum to the Contractor as provided below and elsewhere in the Contract Documents. Payments shall be made in accordance with the Oregon Prompt Payment Act, ORS 279C.570.

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

§ 5.1.3 Provided that a complete and correct Application for Payment is received by the Owner and Architect not later than the first (1<sup>st</sup>) day of a month, the Owner shall make payment of the approved amount to the Contractor not later than the thirtieth (30<sup>th</sup>) day of the same month. If an Application for Payment is received by the Owner and Architect after the application date fixed above, payment shall be made of the approved amount by the Owner not later than thirty (30) days after the Owner and Architect receive the Application for Payment.

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

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

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

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

- .1 That portion of the Contract Sum properly allocable to completed Work;
- .2 That portion of the Contract Sum properly allocable to materials and equipment delivered and suitably stored at the site for subsequent incorporation in the completed construction, or, if approved in advance by the Owner, suitably stored off the site at a location agreed upon in writing; and
- .3 That portion of Construction Change Directives that the Owner determines, in the Owner's judgment, to be reasonably justified.

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

- .1 The aggregate of any amounts previously paid by the Owner;
- .2 The amount, if any, for Work that remains uncorrected and for which the Architect has previously withheld a Certificate for Payment as provided in Article 9 of AIA Document A201–2017;
- .3 Any amount for which the Contractor does not intend to pay a Subcontractor or material supplier, unless the Work has been performed by others the Contractor intends to pay;
- .4 For Work performed or defects discovered since the last payment application, any amount for which the Architect or the Owner may withhold payment, or nullify a Certificate of Payment in whole or in part, as provided in Article 9 of AIA Document A201–2017; and
- .5 Retainage withheld pursuant to Section 5.1.7.

### § 5.1.7 Retainage

§ 5.1.7.1 For each progress payment made prior to Final Completion of the Work, the Owner may withhold the following amount, as retainage, from the payment otherwise due: five percent (5%) of each progress payment (unless otherwise required by law).

*(Insert a percentage or amount to be withheld as retainage from each Application for Payment. The amount of retainage may be limited by governing law.)*

§ 5.1.7.2 Upon Final Completion of the Work and fulfillment of all requirements for Final Completion and release of retainage, the Contractor may submit an Application for Payment that includes the retainage withheld from prior Applications for Payment pursuant to this Section 5.1.7.

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

§ 5.1.9 In accordance with ORS 279C.570, the Owner and Contractor shall endeavor to agree upon (1) a mutually acceptable procedure for review and approval of payments to Subcontractors and (2) the percentage of retainage held on Subcontracts, and the Contractor shall execute subcontracts in accordance with those agreements. Unless otherwise agreed in writing with the Owner, The Contractor agrees to withhold as retainage from each first-tier Subcontractor five percent (5%) of the amount of each progress payment to such first-tier Subcontractor, until completion of the Work, and to otherwise apply such retainage in accordance with the applicable Subcontract to protect the interests of the Owner.

## § 5.2 FINAL PAYMENT

§ 5.2.1 Final payment, constituting the entire unpaid balance of the Contract Sum, shall be made by the Owner to the Contractor when

- .1 the Contractor has fully performed the Contract except for the Contractor's responsibility to correct Work after final payment as provided in Section 12.2.2 of the General Conditions, and to satisfy other requirements, if any, which arise or extend beyond final payment;
- .2 a final Certificate for Payment has been issued by the Architect and approved by the Owner; and
- .3 the Contractor has fully complied with the General Conditions and all other requirements of the Contract Documents for final payment.

§ 5.2.2 The Owner's final payment to the Contractor shall be made no later than thirty (30) days after the issuance of the Architect's final Certificate for Payment.

§ 5.3 Interest payments due and unpaid under the Contract shall bear interest at the rate required under Oregon law.

## ARTICLE 6 DISPUTE RESOLUTION

§ 6.1 For any Claim subject to, but not resolved by, mediation pursuant to Section 15.2 of the General Conditions, the method of binding dispute resolution shall pursuant to Section 15.3 of the General Conditions be at the Owner's sole option either (i) arbitration or (ii) litigation in a court of competent jurisdiction.

## ARTICLE 7 TERMINATION OR SUSPENSION

§ 7.1 The Contract may be terminated by the Owner or the Contractor as provided in Article 14 of the General Conditions.

§ 7.2 The Work may be suspended by the Owner as provided in Article 14 of the General Conditions.

## ARTICLE 8 MISCELLANEOUS PROVISIONS

§ 8.1 Where reference is made in this Agreement to a provision of the General Conditions or another Contract Document, the reference refers to that provision as amended therein or as amended or supplemented by other provisions of the Contract Documents.

§ 8.2 The Owner's Representative:  
*(Name, address and other information)*

«Linda Niman»  
«Purchasing Manager»  
«Beaverton School District #48J »  
«16550 SW Merlo Road»  
«Beaverton, OR 97003»  
«Telephone: (503) 356-4379»

**§ 8.3 The Contractor's Representative:**  
(Name, address and other information)

<< >>  
<< >>  
<< >>  
<< >>  
<< >>  
<< >>

**§ 8.4** Either party may change their representative by written notice to the other party. The Contractor's Representative shall not be replaced without ten (10) days written notice to and the consent of the Owner. If the Owner approves replacement of the Contractor's Representative, the Owner shall have the right to approve the replacement Contractor's Representative. The Owner shall have the right, which shall be exercised in a reasonable fashion, to require replacement of the Contractor's Representative. The Owner may replace the Owner's Representative at its discretion.

**§ 8.5** Contractor's Project Manager shall be: \_\_\_\_\_

**§ 8.6** Contractor's Project Superintendent shall be: \_\_\_\_\_

**§ 8.5 Insurance and Bonds**

**§ 8.5.1** The Contractor shall purchase and maintain insurance as set forth in the Contract Documents.

**§ 8.5.2** The Contractor shall provide bonds as set forth in the Contract Documents.

**§ 8.6 The Owner's Project Manager.**

(Name, address and other information)

<< >>  
<< >>  
<< >>  
<< >>  
<< >>  
<< >>

**§ 8.6.1** The Owner's Representative and the Contractor's Representative shall have authority to bind the Owner and Contractor, respectively, regarding all matters related to the Contract. The Owner's Project Manager shall represent the Owner's interest throughout the Project. The Owner's Project Manager shall not have the authority to bind the Owner regarding any matter relating to the Contract.

**§ 8.7 Other Provisions:**

**§ 8.7.1** The Contractor represents and warrants to the Owner, in addition to the other representations and warranties contained in the Contract Documents and as an inducement to the Owner to execute this Agreement, which representations and warranties shall survive the execution of this Agreement and the Final Completion of the Work, as follows:

- .1 that the Contractor is financially solvent, able to pay its debts as they mature and possessed of sufficient working capital to perform and complete the Work as described in the Contract Documents and to otherwise perform its obligations under the Contract Documents;
- .2 that the Contractor is able to furnish the labor, services, materials, equipment, facilities, supervision, Project management and other services necessary and required to perform and complete the Work and to otherwise perform its obligations under the Contract Documents, and has sufficient experience and competence to do so;
- .3 that the Contractor is authorized to do business in the state where the Project is located and is properly licensed and registered by all necessary governmental and quasi-public authorities having jurisdiction over the Contractor, the Work and the Project; and



- 4 that the Contractor's execution of this Agreement and its performance of the Contract is within its duly authorized powers.

§ 8.7.2 The Contractor hereby agrees that the Project will be completed substantially in accordance with building permits and any other permits related to development of the Project, the Contract Documents and unless otherwise provided in the Contract Documents all manufacturers' or suppliers' recommended installation procedures so as to preserve any warranties with respect thereto, free and clear of all liens or encumbrances and within the time set forth in the Contract Documents. Contractor does further agree that on the date of Substantial Completion, the Project shall comply with all applicable building laws, ordinances, rules and regulations known, or which should in the exercise of reasonable care be known, to Contractor, and that all utility services necessary for the operation of the Project shall have been provided to the Project within the time for completion of construction.

§ 8.7.3 **Interpretation.** The Contract Documents have been carefully reviewed and negotiated by both parties at arm's length, and they shall be given fair and reasonable interpretation in accordance with the words contained in them without any weight being given to whether a provision was drafted by one party or its counsel. Section headings are for convenience only and shall not be a part of the Contract Documents or considered in their interpretation. The Exhibits attached hereto are made a part hereof.

§ 8.7.4 If the Contractor fails, neglects or refuses to make prompt payment for labor, materials, equipment or other services furnished to the Contractor or a Subcontractor by any person in connection with the Project as such claim becomes due, the Owner may pay the claim and charge the amount of the payment against funds due or to become due the Contractor under this Contract. Payment of claims in this manner shall not relieve the Contractor or the Contractor's surety from obligation with respect to any unpaid claims.

§ 8.7.5 This Contract is subject to the State of Oregon Bureau of Labor and Industries Prevailing Wage Rates, and Contractor shall pay or cause to be paid all workers accordingly. For this contract, the 'prevailing rate of wage' as published by the Oregon Bureau of Labor and Industries are the Prevailing Wage Rates for Public Works Contracts in Oregon effective January 1, 2019 and the Prevailing Wage Rate Amendment effective April 1, 2019. Such rates may be found at the Bureau's web site [www.boli.state.or.us](http://www.boli.state.or.us) as in effect on the Publication Date.

## ARTICLE 9 ENUMERATION OF CONTRACT DOCUMENTS

§ 9.1 The Contract Documents, except for Modifications issued after execution of this Agreement, are enumerated in the sections below. Any Contractor or subcontractor proposals referenced as part of the Contract Documents are incorporated solely for: (i) any statement of fees and schedule that is otherwise consistent with the terms of this Agreement and (ii) any statement of services and scope of Work that is consistent with the remainder of this Agreement, or that provides additional Work without adjustment to the Contract Sum or Contract Time. No other provisions of any proposal are part of this Agreement, including without limitation any purported limitation on liability. To the extent that a proposal term otherwise conflicts with the other terms of this Agreement, such proposed conflicting terms are void and are expressly and wholly subject to the terms of this Agreement. In the event of overlap or inconsistency between the provisions of such proposals and the other terms of this Agreement, the provision that provides a better quality or quantity of service to Owner shall control.

§ 9.1.1 The Agreement is this executed and modified AIA Document A101™-2017, Standard Form of Agreement Between Owner and Contractor.

§ 9.1.2 The General Conditions are the General Conditions of the Contract for Construction, as modified herein. References to the AIA Document A201™-2017 mean the General Conditions.

§ 9.1.3 The Specifications will be set out in Exhibit A, Construction Documents List.

§ 9.1.4 The Drawings will be set out in Exhibit A, Construction Documents List.

§ 9.1.5 The Addenda, if any, are set out in Exhibit A, Construction Documents List.

§ 9.1.6 Additional documents, if any, forming part of the Contract Documents:

Exhibit A:	Construction Documents List
Exhibit B:	Forms of Claim Waivers and Releases

Exhibit C: Contract Provisions from ORS Chapters 279A and 279C, the Attorney General Model Public Contracting Rules and Other Laws  
 Exhibit D: Payment and Performance Bonds  
 Exhibit E: Insurance Requirements  
 Exhibit F: Owner's Solicitation: ITB [ ] including issued Addenda  
 Exhibit G: Contractor's Bid dated [ ]

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

**Beaverton School District**

**Contractor**

\_\_\_\_\_  
**District Representative** Date

\_\_\_\_\_  
 Signature of Person Authorized to Bind Contractor Date

\_\_\_\_\_  
**Department Administrator** Date

\_\_\_\_\_  
 Printed Name and Title

\_\_\_\_\_  
**Executive Administrator for Facilities** Date

\_\_\_\_\_  
 Telephone Number

\_\_\_\_\_  
**Business Services Administrator** Date

\_\_\_\_\_  
 e-Mail Address

\_\_\_\_\_  
**Business Services Purchasing** Date

Not a valid contract until all signatures are complete.

Exhibit A: List of Contract Documents



Business Services  
Procurement and Contracting  
16550 SW Merlo Road  
Beaverton, OR 97003  
(503) 356-4324



**XX-XXXX Contract Documents in Order of Precedence**

1. AIA A101-2017 (modified) Contract
2. AIA A201-2017 (modified) General Conditions
3. [ITB or RFP XX-XXXX] including any Addenda incorporated by reference.
4. Specifications incorporated by reference.
5. Drawings incorporated by reference.
6. [Contractor] Bid.

**District Goal:** WE empower all students to achieve post-high school success.

The Beaverton School District recognizes the diversity and worth of all individuals and groups. It is the policy of the Beaverton School District that there will be no discrimination or harassment of individuals or groups based on race, color, religion, gender, sexual orientation, gender identity, gender expression, national origin, marital status, age, veterans' status, genetic information or disability in any educational programs, activities or employment.



# DRAFT AIA® Document A201™ – 2017

## General Conditions of the Contract for Construction

for the following PROJECT:

(Name and location or address)

« »  
« »

THE OWNER:

(Name, legal status and address)

«Beaverton School District #48J»  
«16550 SW Merlo Road »  
«Beaverton, OR 97003»

THE ARCHITECT:

(Name, legal status and address)

« »« »  
« »

[All references to and responsibilities of Architect are to be completed by Owner or Owner's contracted Engineering Firm.] – *Include if there is no Architect on the project.*

1159325\v6

### TABLE OF ARTICLES

- |    |  |
|----|--|
| 1  | GENERAL PROVISIONS                               |
| 2  | OWNER  |
| 3  | CONTRACTOR                                       |
| 4  | ARCHITECT  |
| 5  | SUBCONTRACTORS                                   |
| 6  | CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS |
| 7  | CHANGES IN THE WORK                              |
| 8  | TIME   |
| 9  | PAYMENTS AND COMPLETION                          |
| 10 | PROTECTION OF PERSONS AND PROPERTY               |
| 11 | INSURANCE AND BONDS                              |
| 12 | UNCOVERING AND CORRECTION OF WORK                |

**ADDITIONS AND DELETIONS:** The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed.

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

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



**ELECTRONIC COPYING** of any portion of this AIA® Document to another electronic file is prohibited and constitutes a violation of copyright laws as set forth in the footer of this document.

- 13 MISCELLANEOUS PROVISIONS
- 14 TERMINATION OR SUSPENSION OF THE CONTRACT
- 15 CLAIMS AND DISPUTES



## INDEX

(Topics and numbers in bold are Section headings.)

### **Acceptance of Nonconforming Work**

9.6.6, 9.9.3, **12.3**

#### Acceptance of Work

9.6.6, 9.8.2, 9.9.3, 9.10.1, 9.10.3, 12.3

### **Access to Work**

**3.16**, 6.2.1, 12.1

#### Accident Prevention

10

#### Acts and Omissions

3.2, 3.3.2, 3.12.8, 3.18, 4.2.3, 8.3.1, 9.5.1, 10.2.5,  
10.2.8, 13.3.2, 14.1, 15.1.2, 15.2

#### Addenda

1.1.1

#### Additional Costs, Claims for

3.7.4, 3.7.5, 10.3.2, 15.1.5

### **Additional Inspections and Testing**

9.4.2, 9.8.3, 12.2.1, **13.4**

### **Additional Time, Claims for**

3.2.4, 3.7.4, 3.7.5, 3.10.2, 8.3.2, **15.1.6**

### **Administration of the Contract**

3.1.3, **4.2**, 9.4, 9.5

#### Advertisement or Invitation to Bid

1.1.1

#### Aesthetic Effect

4.2.13

### **Allowances**

**3.8**

### **Applications for Payment**

4.2.5, 7.3.9, 9.2, **9.3**, 9.4, 9.5.1, 9.5.4, 9.6.3, 9.7, 9.10

#### Approvals

2.1.1, 2.3.1, 2.5, 3.1.3, 3.10.2, 3.12.8, 3.12.9,  
3.12.10.1, 4.2.7, 9.3.2, 13.4.1

#### Arbitration

8.3.1, 15.3.2, **15.4**

## **ARCHITECT**

**4**

### **Architect, Definition of**

**4.1.1**

#### Architect, Extent of Authority

2.5, 3.12.7, 4.1.2, 4.2, 5.2, 6.3, 7.1.2, 7.3.4, 7.4, 9.2,  
9.3.1, 9.4, 9.5, 9.6.3, 9.8, 9.10.1, 9.10.3, 12.1, 12.2.1,  
13.4.1, 13.4.2, 14.2.2, 14.2.4, 15.1.4, 15.2.1

#### Architect, Limitations of Authority and Responsibility

2.1.1, 3.12.4, 3.12.8, 3.12.10, 4.1.2, 4.2.1, 4.2.2, 4.2.3,  
4.2.6, 4.2.7, 4.2.10, 4.2.12, 4.2.13, 5.2.1, 7.4, 9.4.2,  
9.5.4, 9.6.4, 15.1.4, 15.2

#### Architect's Additional Services and Expenses

2.5, 12.2.1, 13.4.2, 13.4.3, 14.2.4

#### Architect's Administration of the Contract

3.1.3, 3.7.4, 15.2, 9.4.1, 9.5

#### Architect's Approvals

2.5, 3.1.3, 3.5, 3.10.2, 4.2.7

#### Architect's Authority to Reject Work

3.5, 4.2.6, 12.1.2, 12.2.1

### Architect's Copyright

1.1.7, 1.5

### Architect's Decisions

3.7.4, 4.2.6, 4.2.7, 4.2.11, 4.2.12, 4.2.13, 4.2.14, 6.3,  
7.3.4, 7.3.9, 8.1.3, 8.3.1, 9.2, 9.4.1, 9.5, 9.8.4, 9.9.1,  
13.4.2, 15.2

### Architect's Inspections

3.7.4, 4.2.2, 4.2.9, 9.4.2, 9.8.3, 9.9.2, 9.10.1, 13.4

### Architect's Instructions

3.2.4, 3.3.1, 4.2.6, 4.2.7, 13.4.2

### Architect's Interpretations

4.2.11, 4.2.12

### Architect's Project Representative

4.2.10

### Architect's Relationship with Contractor

1.1.2, 1.5, 2.3.3, 3.1.3, 3.2.2, 3.2.3, 3.2.4, 3.3.1, 3.4.2,  
3.5, 3.7.4, 3.7.5, 3.9.2, 3.9.3, 3.10, 3.11, 3.12, 3.16,  
3.18, 4.1.2, 4.2, 5.2, 6.2.2, 7, 8.3.1, 9.2, 9.3, 9.4, 9.5,  
9.7, 9.8, 9.9, 10.2.6, 10.3, 11.3, 12, 13.3.2, 13.4, 15.2

### Architect's Relationship with Subcontractors

1.1.2, 4.2.3, 4.2.4, 4.2.6, 9.6.3, 9.6.4, 11.3

### Architect's Representations

9.4.2, 9.5.1, 9.10.1

### Architect's Site Visits

3.7.4, 4.2.2, 4.2.9, 9.4.2, 9.5.1, 9.9.2, 9.10.1, 13.4

### Asbestos

10.3.1

### Attorneys' Fees

3.18.1, 9.6.8, 9.10.2, 10.3.3

### Award of Separate Contracts

6.1.1, 6.1.2

### **Award of Subcontracts and Other Contracts for Portions of the Work**

**5.2**

### **Basic Definitions**

**1.1**

#### Bidding Requirements

1.1.1

#### Binding Dispute Resolution

8.3.1, 9.7, 11.5, 13.1, 15.1.2, 15.1.3, 15.2.1, 15.2.5,  
15.2.6.1, 15.3.1, 15.3.2, 15.3.3, 15.4.1

#### Bonds, Lien

7.3.4.4, 9.6.8, 9.10.2, 9.10.3

### **Bonds, Performance, and Payment**

7.3.4.4, 9.6.7, 9.10.3, **11.1.2**, **11.1.3**, **11.5**

### **Building Information Models Use and Reliance**

**1.8**

#### Building Permit

3.7.1

### **Capitalization**

**1.3**

#### Certificate of Substantial Completion

9.8.3, 9.8.4, 9.8.5

### **Certificates for Payment**

4.2.1, 4.2.5, 4.2.9, 9.3.3, **9.4**, 9.5, 9.6.1, 9.6.6, 9.7,  
9.10.1, 9.10.3, 14.1.1.3, 14.2.4, 15.1.4

#### Certificates of Inspection, Testing or Approval

13.4.4

Certificates of Insurance

9.10.2

### **Change Orders**

1.1.1, 3.4.2, 3.7.4, 3.8.2.3, 3.11, 3.12.8, 4.2.8, 5.2.3, 7.1.2, 7.1.3, **7.2**, 7.3.2, 7.3.7, 7.3.9, 7.3.10, 8.3.1, 9.3.1.1, 9.10.3, 10.3.2, 11.2, 11.5, 12.1.2

**Change Orders**, Definition of

### **7.2.1**

## **CHANGES IN THE WORK**

2.2.2, 3.11, 4.2.8, **7**, 7.2.1, 7.3.1, 7.4, 8.3.1, 9.3.1.1, 11.5

**Claims**, Definition of

### **15.1.1**

Claims, Notice of

1.6.2, 15.1.3

## **CLAIMS AND DISPUTES**

3.2.4, 6.1.1, 6.3, 7.3.9, 9.3.3, 9.10.4, 10.3.3, **15**, 15.4

Claims and Timely Assertion of Claims

15.4.1

### **Claims for Additional Cost**

3.2.4, 3.3.1, 3.7.4, 7.3.9, 9.5.2, 10.2.5, 10.3.2, **15.1.5**

### **Claims for Additional Time**

3.2.4, 3.3.1, 3.7.4, 6.1.1, 8.3.2, 9.5.2, 10.3.2, **15.1.6**

### **Concealed or Unknown Conditions, Claims for 3.7.4**

Claims for Damages

3.2.4, 3.18, 8.3.3, 9.5.1, 9.6.7, 10.2.5, 10.3.3, 11.3, 11.3.2, 14.2.4, 15.1.7

Claims Subject to Arbitration

15.4.1

### **Cleaning Up**

**3.15**, 6.3

Commencement of the Work, Conditions Relating to

2.2.1, 3.2.2, 3.4.1, 3.7.1, 3.10.1, 3.12.6, 5.2.1, 5.2.3, 6.2.2, 8.1.2, 8.2.2, 8.3.1, 11.1, 11.2, **15.1.5**

**Commencement of the Work**, Definition of

### **8.1.2**

## **Communications**

3.9.1, **4.2.4**

Completion, Conditions Relating to

3.4.1, 3.11, 3.15, 4.2.2, 4.2.9, 8.2, 9.4.2, 9.8, 9.9.1, 9.10, 12.2, 14.1.2, 15.1.2

## **COMPLETION, PAYMENTS AND**

### **9**

Completion, Substantial

3.10.1, 4.2.9, 8.1.1, 8.1.3, 8.2.3, 9.4.2, 9.8, 9.9.1, 9.10.3, 12.2, 15.1.2

Compliance with Laws

2.3.2, 3.2.3, 3.6, 3.7, 3.12.10, 3.13, 9.6.4, 10.2.2, 13.1, 13.3, 13.4.1, 13.4.2, 13.5, 14.1.1, 14.2.1.3, 15.2.8, 15.4.2, 15.4.3

Concealed or Unknown Conditions

3.7.4, 4.2.8, 8.3.1, 10.3

Conditions of the Contract

1.1.1, 6.1.1, 6.1.4

Consent, Written

3.4.2, 3.14.2, 4.1.2, 9.8.5, 9.9.1, 9.10.2, 9.10.3, 13.2, 15.4.4.2

## **Consolidation or Joinder**

### **15.4.4**

## **CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS**

1.1.4, **6**

**Construction Change Directive**, Definition of

### **7.3.1**

### **Construction Change Directives**

1.1.1, 3.4.2, 3.11, 3.12.8, 4.2.8, 7.1.1, 7.1.2, 7.1.3, **7.3**, 9.3.1.1

Construction Schedules, Contractor's

3.10, 3.11, 3.12.1, 3.12.2, 6.1.3, 15.1.6.2

### **Contingent Assignment of Subcontracts**

**5.4**, 14.2.2.2

### **Continuing Contract Performance**

### **15.1.4**

**Contract**, Definition of

### **1.1.2**

## **CONTRACT, TERMINATION OR SUSPENSION OF THE**

5.4.1.1, 5.4.2, 11.5, **14**

Contract Administration

3.1.3, 4, 9.4, 9.5

Contract Award and Execution, Conditions Relating to

3.7.1, 3.10, 5.2, 6.1

Contract Documents, Copies Furnished and Use of

1.5.2, 2.3.6, 5.3

**Contract Documents**, Definition of

### **1.1.1**

### **Contract Sum**

2.2.2, 2.2.4, 3.7.4, 3.7.5, 3.8, 3.10.2, 5.2.3, 7.3, 7.4, **9.1**, 9.2, 9.4.2, 9.5.1.4, 9.6.7, 9.7, 10.3.2, 11.5, 12.1.2, 12.3, 14.2.4, 14.3.2, 15.1.4.2, **15.1.5**, **15.2.5**

**Contract Sum**, Definition of

### **9.1**

Contract Time

1.1.4, 2.2.1, 2.2.2, 3.7.4, 3.7.5, 3.10.2, 5.2.3, 6.1.5, 7.2.1.3, 7.3.1, 7.3.5, 7.3.6, 7, 7, 7.3.10, 7.4, 8.1.1, 8.2.1, 8.2.3, 8.3.1, 9.5.1, 9.7, 10.3.2, 12.1.1, 12.1.2, 14.3.2, 15.1.4.2, 15.1.6.1, 15.2.5

**Contract Time**, Definition of

8.1.1

## **CONTRACTOR**

### **3**

**Contractor**, Definition of

**3.1**, **6.1.2**

### **Contractor's Construction and Submittal Schedules**

**3.10**, 3.12.1, 3.12.2, 4.2.3, 6.1.3, 15.1.6.2

Contractor's Employees

2.2.4, 3.3.2, 3.4.3, 3.8.1, 3.9, 3.18.2, 4.2.3, 4.2.6, 10.2, 10.3, 11.3, 14.1, 14.2.1.1

### **Contractor's Liability Insurance**

### **11.1**

Contractor's Relationship with Separate Contractors and Owner's Forces

3.12.5, 3.14.2, 4.2.4, 6, 11.3, 12.2.4

Contractor's Relationship with Subcontractors  
1.2.2, 2.2.4, 3.3.2, 3.18.1, 3.18.2, 4.2.4, 5, 9.6.2, 9.6.7, 9.10.2, 11.2, 11.3, 11.4

Contractor's Relationship with the Architect  
1.1.2, 1.5, 2.3.3, 3.1.3, 3.2.2, 3.2.3, 3.2.4, 3.3.1, 3.4.2, 3.5.1, 3.7.4, 3.10, 3.11, 3.12, 3.16, 3.18, 4.2, 5.2, 6.2.2, 7, 8.3.1, 9.2, 9.3, 9.4, 9.5, 9.7, 9.8, 9.9, 10.2.6, 10.3, 11.3, 12, 13.4, 15.1.3, 15.2.1

Contractor's Representations  
3.2.1, 3.2.2, 3.5, 3.12.6, 6.2.2, 8.2.1, 9.3.3, 9.8.2

Contractor's Responsibility for Those Performing the Work  
3.3.2, 3.18, 5.3, 6.1.3, 6.2, 9.5.1, 10.2.8

Contractor's Review of Contract Documents  
3.2

Contractor's Right to Stop the Work  
2.2.2, 9.7

Contractor's Right to Terminate the Contract  
14.1

Contractor's Submittals  
3.10, 3.11, 3.12, 4.2.7, 5.2.1, 5.2.3, 9.2, 9.3, 9.8.2, 9.8.3, 9.9.1, 9.10.2, 9.10.3

Contractor's Superintendent  
3.9, 10.2.6

Contractor's Supervision and Construction Procedures  
1.2.2, 3.3, 3.4, 3.12.10, 4.2.2, 4.2.7, 6.1.3, 6.2.4, 7.1.3, 7.3.4, 7.3.6, 8.2, 10, 12, 14, 15.1.4

Coordination and Correlation  
1.2, 3.2.1, 3.3.1, 3.10, 3.12.6, 6.1.3, 6.2.1

Copies Furnished of Drawings and Specifications  
1.5, 2.3.6, 3.11

Copyrights  
1.5, **3.17**

Correction of Work  
2.5, 3.7.3, 9.4.2, 9.8.2, 9.8.3, 9.9.1, 12.1.2, **12.2**, 12.3, 15.1.3.1, 15.1.3.2, 15.2.1

**Correlation and Intent of the Contract Documents**  
**1.2**

**Cost**, Definition of  
**7.3.4**

Costs  
2.5, 3.2.4, 3.7.3, 3.8.2, 3.15.2, 5.4.2, 6.1.1, 6.2.3, 7.3.3.3, 7.3.4, 7.3.8, 7.3.9, 9.10.2, 10.3.2, 10.3.6, 11.2, 12.1.2, 12.2.1, 12.2.4, 13.4, 14

**Cutting and Patching**  
**3.14**, 6.2.5

Damage to Construction of Owner or Separate Contractors  
3.14.2, 6.2.4, 10.2.1.2, 10.2.5, 10.4, 12.2.4

Damage to the Work  
3.14.2, 9.9.1, 10.2.1.2, 10.2.5, 10.4, 12.2.4

Damages, Claims for  
3.2.4, 3.18, 6.1.1, 8.3.3, 9.5.1, 9.6.7, 10.3.3, 11.3.2, 11.3, 14.2.4, 15.1.7

Damages for Delay  
6.2.3, 8.3.3, 9.5.1.6, 9.7, 10.3.2, 14.3.2

**Date of Commencement of the Work**, Definition of  
**8.1.2**

**Date of Substantial Completion**, Definition of  
**8.1.3**

**Day**, Definition of  
**8.1.4**

Decisions of the Architect  
3.7.4, 4.2.6, 4.2.7, 4.2.11, 4.2.12, 4.2.13, 6.3, 7.3.4, 7.3.9, 8.1.3, 8.3.1, 9.2, 9.4, 9.5.1, 9.8.4, 9.9.1, 13.4.2, 14.2.2, 14.2.4, 15.1, 15.2

**Decisions to Withhold Certification**  
9.4.1, **9.5**, 9.7, 14.1.1.3

Defective or Nonconforming Work, Acceptance, Rejection and Correction of  
2.5, 3.5, 4.2.6, 6.2.3, 9.5.1, 9.5.3, 9.6.6, 9.8.2, 9.9.3, 9.10.4, 12.2.1

Definitions  
1.1, 2.1.1, 3.1.1, 3.5, 3.12.1, 3.12.2, 3.12.3, 4.1.1, 5.1, 6.1.2, 7.2.1, 7.3.1, 8.1, 9.1, 9.8.1, 15.1.1

**Delays and Extensions of Time**  
**3.2**, **3.7.4**, 5.2.3, 7.2.1, 7.3.1, **7.4**, **8.3**, 9.5.1, **9.7**, 10.3.2, **10.4**, 14.3.2, **15.1.6**, 15.2.5

**Digital Data Use and Transmission**  
**1.7**

Disputes  
6.3, 7.3.9, 15.1, 15.2

**Documents and Samples at the Site**  
**3.11**

**Drawings**, Definition of  
**1.1.5**

Drawings and Specifications, Use and Ownership of  
3.11

Effective Date of Insurance  
8.2.2

**Emergencies**  
**10.4**, 14.1.1.2, **15.1.5**

Employees, Contractor's  
3.3.2, 3.4.3, 3.8.1, 3.9, 3.18.2, 4.2.3, 4.2.6, 10.2, 10.3.3, 11.3, 14.1, 14.2.1.1

Equipment, Labor, or Materials  
1.1.3, 1.1.6, 3.4, 3.5, 3.8.2, 3.8.3, 3.12, 3.13, 3.15.1, 4.2.6, 4.2.7, 5.2.1, 6.2.1, 7.3.4, 9.3.2, 9.3.3, 9.5.1.3, 9.10.2, 10.2.1, 10.2.4, 14.2.1.1, 14.2.1.2

Execution and Progress of the Work  
1.1.3, 1.2.1, 1.2.2, 2.3.4, 2.3.6, 3.1, 3.3.1, 3.4.1, 3.7.1, 3.10.1, 3.12, 3.14, 4.2, 6.2.2, 7.1.3, 7.3.6, 8.2, 9.5.1, 9.9.1, 10.2, 10.3, 12.1, 12.2, 14.2, 14.3.1, 15.1.4

Extensions of Time  
3.2.4, 3.7.4, 5.2.3, 7.2.1, 7.3, 7.4, 9.5.1, 9.7, 10.3.2, 10.4, 14.3, 15.1.6, **15.2.5**

**Failure of Payment**  
9.5.1.3, **9.7**, 9.10.2, 13.5, 14.1.1.3, 14.2.1.2

Faulty Work  
(See Defective or Nonconforming Work)

**Final Completion and Final Payment**  
4.2.1, 4.2.9, 9.8.2, **9.10**, 12.3, 14.2.4, 14.4.3

Financial Arrangements, Owner's  
2.2.1, 13.2.2, 14.1.1.4

## GENERAL PROVISIONS

### 1

#### Governing Law

##### 13.1

Guarantees (See Warranty)

#### Hazardous Materials and Substances

##### 10.2.4, 10.3

Identification of Subcontractors and Suppliers

##### 5.2.1

#### Indemnification

3.17, **3.18**, 9.6.8, 9.10.2, 10.3.3, 11.3

#### Information and Services Required of the Owner

2.1.2, **2.2**, 2.3, 3.2.2, 3.12.10.1, 6.1.3, 6.1.4, 6.2.5,

9.6.1, 9.9.2, 9.10.3, 10.3.3, 11.2, 13.4.1, 13.4.2,

14.1.1.4, 14.1.4, 15.1.4

#### Initial Decision

##### 15.2

#### Initial Decision Maker, Definition of

##### 1.1.8

Initial Decision Maker, Decisions

14.2.4, 15.1.4.2, 15.2.1, 15.2.2, 15.2.3, 15.2.4, 15.2.5

Initial Decision Maker, Extent of Authority

14.2.4, 15.1.4.2, 15.2.1, 15.2.2, 15.2.3, 15.2.4, 15.2.5

#### Injury or Damage to Person or Property

##### 10.2.8, 10.4

Inspections

3.1.3, 3.3.3, 3.7.1, 4.2.2, 4.2.6, 4.2.9, 9.4.2, 9.8.3,

9.9.2, 9.10.1, 12.2.1, 13.4

Instructions to Bidders

##### 1.1.1

Instructions to the Contractor

3.2.4, 3.3.1, 3.8.1, 5.2.1, 7, 8.2.2, 12, 13.4.2

#### Instruments of Service, Definition of

##### 1.1.7

Insurance

6.1.1, 7.3.4, 8.2.2, 9.3.2, 9.8.4, 9.9.1, 9.10.2, 10.2.5, **11**

#### Insurance, Notice of Cancellation or Expiration

##### 11.1.4, 11.2.3

#### Insurance, Contractor's Liability

##### 11.1

Insurance, Effective Date of

8.2.2, 14.4.2

#### Insurance, Owner's Liability

##### 11.2

#### Insurance, Property

##### 10.2.5, 11.2, 11.4, 11.5

Insurance, Stored Materials

##### 9.3.2

## INSURANCE AND BONDS

### 11

Insurance Companies, Consent to Partial Occupancy

##### 9.9.1

Insured loss, Adjustment and Settlement of

##### 11.5

Intent of the Contract Documents

1.2.1, 4.2.7, 4.2.12, 4.2.13

#### Interest

##### 13.5

#### Interpretation

1.1.8, 1.2.3, **1.4**, 4.1.1, 5.1, 6.1.2, 15.1.1

Interpretations, Written

4.2.11, 4.2.12

Judgment on Final Award

15.4.2

#### Labor and Materials, Equipment

1.1.3, 1.1.6, **3.4**, 3.5, 3.8.2, 3.8.3, 3.12, 3.13, 3.15.1,

5.2.1, 6.2.1, 7.3.4, 9.3.2, 9.3.3, 9.5.1.3, 9.10.2, 10.2.1,

10.2.4, 14.2.1.1, 14.2.1.2

Labor Disputes

8.3.1

Laws and Regulations

1.5, 2.3.2, 3.2.3, 3.2.4, 3.6, 3.7, 3.12.10, 3.13, 9.6.4,

9.9.1, 10.2.2, 13.1, 13.3.1, 13.4.2, 13.5, 14, 15.2.8,

15.4

Liens

2.1.2, 9.3.1, 9.3.3, 9.6.8, 9.10.2, 9.10.4, 15.2.8

Limitations, Statutes of

12.2.5, 15.1.2, 15.4.1.1

Limitations of Liability

3.2.2, 3.5, 3.12.10, 3.12.10.1, 3.17, 3.18.1, 4.2.6,

4.2.7, 6.2.2, 9.4.2, 9.6.4, 9.6.7, 9.6.8, 10.2.5, 10.3.3,

11.3, 12.2.5, 13.3.1

Limitations of Time

2.1.2, 2.2, 2.5, 3.2.2, 3.10, 3.11, 3.12.5, 3.15.1, 4.2.7,

5.2, 5.3, 5.4.1, 6.2.4, 7.3, 7.4, 8.2, 9.2, 9.3.1, 9.3.3,

9.4.1, 9.5, 9.6, 9.7, 9.8, 9.9, 9.10, 12.2, 13.4, 14, 15,

15.1.2, 15.1.3, 15.1.5

#### Materials, Hazardous

##### 10.2.4, 10.3

Materials, Labor, Equipment and

1.1.3, 1.1.6, 3.4.1, 3.5, 3.8.2, 3.8.3, 3.12, 3.13, 3.15.1,

5.2.1, 6.2.1, 7.3.4, 9.3.2, 9.3.3, 9.5.1.3, 9.10.2,

10.2.1.2, 10.2.4, 14.2.1.1, 14.2.1.2

Means, Methods, Techniques, Sequences and

Procedures of Construction

3.3.1, 3.12.10, 4.2.2, 4.2.7, 9.4.2

Mechanic's Lien

2.1.2, 9.3.1, 9.3.3, 9.6.8, 9.10.2, 9.10.4, 15.2.8

#### Mediation

8.3.1, 15.1.3.2, 15.2.1, 15.2.5, 15.2.6, **15.3**, 15.4.1,

15.4.1.1

#### Minor Changes in the Work

1.1.1, 3.4.2, 3.12.8, 4.2.8, 7.1, **7.4**

## MISCELLANEOUS PROVISIONS

### 13

#### Modifications, Definition of

##### 1.1.1

Modifications to the Contract

1.1.1, 1.1.2, 2.5, 3.11, 4.1.2, 4.2.1, 5.2.3, 7, 8.3.1, 9.7,

10.3.2

#### Mutual Responsibility

##### 6.2

#### Nonconforming Work, Acceptance of

9.6.6, 9.9.3, **12.3**

Nonconforming Work, Rejection and Correction of  
2.4, 2.5, 3.5, 4.2.6, 6.2.4, 9.5.1, 9.8.2, 9.9.3, 9.10.4,  
12.2

## **Notice**

**1.6**, 1.6.1, 1.6.2, 2.1.2, 2.2.2., 2.2.3, 2.2.4, 2.5, 3.2.4,  
3.3.1, 3.7.4, 3.7.5, 3.9.2, 3.12.9, 3.12.10, 5.2.1, 7.4,  
8.2.2 9.6.8, 9.7, 9.10.1, 10.2.8, 10.3.2, 11.5, 12.2.2.1,  
13.4.1, 13.4.2, 14.1, 14.2.2, 14.4.2, 15.1.3, 15.1.5,  
15.1.6, 15.4.1

Notice of Cancellation or Expiration of Insurance  
11.1.4, 11.2.3

## **Notice of Claims**

1.6.2, 2.1.2, 3.7.4, 9.6.8, 10.2.8, **15.1.3**, 15.1.5, 15.1.6,  
15.2.8, 15.3.2, 15.4.1

Notice of Testing and Inspections  
13.4.1, 13.4.2

Observations, Contractor's  
3.2, 3.7.4

Occupancy  
2.3.1, 9.6.6, 9.8

Orders, Written  
1.1.1, 2.4, 3.9.2, 7, 8.2.2, 11.5, 12.1, 12.2.2.1, 13.4.2,  
14.3.1

## **OWNER**

### **2**

**Owner**, Definition of

### **2.1.1**

**Owner**, Evidence of Financial Arrangements  
**2.2**, 13.2.2, 14.1.1.4

**Owner**, Information and Services Required of the  
2.1.2, **2.2**, 2.3, 3.2.2, 3.12.10, 6.1.3, 6.1.4, 6.2.5, 9.3.2,  
9.6.1, 9.6.4, 9.9.2, 9.10.3, 10.3.3, 11.2, 13.4.1, 13.4.2,  
14.1.1.4, 14.1.4, 15.1.4

Owner's Authority  
1.5, 2.1.1, 2.3.32.4, 2.5, 3.4.2, 3.8.1, 3.12.10, 3.14.2,  
4.1.2, 4.2.4, 4.2.9, 5.2.1, 5.2.4, 5.4.1, 6.1, 6.3, 7.2.1,  
7.3.1, 8.2.2, 8.3.1, 9.3.2, 9.5.1, 9.6.4, 9.9.1, 9.10.2,  
10.3.2, 11.4, 11.5, 12.2.2, 12.3, 13.2.2, 14.3, 14.4,  
15.2.7

**Owner's Insurance**

### **11.2**

Owner's Relationship with Subcontractors  
1.1.2, 5.2, 5.3, 5.4, 9.6.4, 9.10.2, 14.2.2

**Owner's Right to Carry Out the Work**  
**2.5**, 14.2.2

**Owner's Right to Clean Up**  
**6.3**

**Owner's Right to Perform Construction and to  
Award Separate Contracts**

### **6.1**

**Owner's Right to Stop the Work**  
**2.4**

Owner's Right to Suspend the Work  
14.3

Owner's Right to Terminate the Contract  
14.2, 14.4

## **Ownership and Use of Drawings, Specifications and Other Instruments of Service**

1.1.1, 1.1.6, 1.1.7, **1.5**, 2.3.6, 3.2.2, 3.11, 3.17, 4.2.12,  
5.3

## **Partial Occupancy or Use**

9.6.6, **9.9**

## **Patching, Cutting and**

**3.14**, 6.2.5

Patents

3.17

## **Payment, Applications for**

4.2.5, 7.3.9, 9.2, **9.3**, 9.4, 9.5, 9.6.3, 9.7, 9.8.5, 9.10.1,  
14.2.3, 14.2.4, 14.4.3

## **Payment, Certificates for**

4.2.5, 4.2.9, 9.3.3, **9.4**, 9.5, 9.6.1, 9.6.6, 9.7, 9.10.1,  
9.10.3, 14.1.1.3, 14.2.4

## **Payment, Failure of**

9.5.1.3, **9.7**, 9.10.2, 13.5, 14.1.1.3, 14.2.1.2

Payment, Final

4.2.1, 4.2.9, **9.10**, 12.3, 14.2.4, 14.4.3

## **Payment Bond, Performance Bond and**

7.3.4.4, 9.6.7, 9.10.3, **11.1.2**

## **Payments, Progress**

9.3, **9.6**, 9.8.5, 9.10.3, 14.2.3, 15.1.4

## **PAYMENTS AND COMPLETION**

### **9**

Payments to Subcontractors

5.4.2, 9.5.1.3, 9.6.2, 9.6.3, 9.6.4, 9.6.7, 14.2.1.2

PCB

10.3.1

## **Performance Bond and Payment Bond**

7.3.4.4, 9.6.7, 9.10.3, **11.1.2**

## **Permits, Fees, Notices and Compliance with Laws**

2.3.1, **3.7**, 3.13, 7.3.4.4, 10.2.2

## **PERSONS AND PROPERTY, PROTECTION OF**

**10**  
Polychlorinated Biphenyl

10.3.1

**Product Data**, Definition of  
**3.12.2**

## **Product Data and Samples, Shop Drawings**

3.11, **3.12**, 4.2.7

## **Progress and Completion**

4.2.2, **8.2**, 9.8, 9.9.1, 14.1.4, 15.1.4

## **Progress Payments**

9.3, **9.6**, 9.8.5, 9.10.3, 14.2.3, 15.1.4

**Project**, Definition of

### **1.1.4**

Project Representatives

4.2.10

## **Property Insurance**

10.2.5, **11.2**

## **Proposal Requirements**

1.1.1

## **PROTECTION OF PERSONS AND PROPERTY**

### **10**



## Regulations and Laws

1.5, 2.3.2, 3.2.3, 3.6, 3.7, 3.12.10, 3.13, 9.6.4, 9.9.1, 10.2.2, 13.1, 13.3, 13.4.1, 13.4.2, 13.5, 14, 15.2.8, 15.4

## Rejection of Work

4.2.6, 12.2.1

## Releases and Waivers of Liens

9.3.1, 9.10.2

## Representations

3.2.1, 3.5, 3.12.6, 8.2.1, 9.3.3, 9.4.2, 9.5.1, 9.10.1

## Representatives

2.1.1, 3.1.1, 3.9, 4.1.1, 4.2.10, 13.2.1

## Responsibility for Those Performing the Work

3.3.2, 3.18, 4.2.2, 4.2.3, 5.3, 6.1.3, 6.2, 6.3, 9.5.1, 10

## Retainage

9.3.1, 9.6.2, 9.8.5, 9.9.1, 9.10.2, 9.10.3

## Review of Contract Documents and Field Conditions by Contractor

3.2, 3.12.7, 6.1.3

## Review of Contractor's Submittals by Owner and Architect

3.10.1, 3.10.2, 3.11, 3.12, 4.2, 5.2, 6.1.3, 9.2, 9.8.2

## Review of Shop Drawings, Product Data and Samples by Contractor

3.12

## Rights and Remedies

1.1.2, 2.4, 2.5, 3.5, 3.7.4, 3.15.2, 4.2.6, 5.3, 5.4, 6.1, 6.3, 7.3.1, 8.3, 9.5.1, 9.7, 10.2.5, 10.3, 12.2.1, 12.2.2, 12.2.4, 13.3, 14, 15.4

## Royalties, Patents and Copyrights

3.17

## Rules and Notices for Arbitration

15.4.1

## Safety of Persons and Property

10.2, 10.4

## Safety Precautions and Programs

3.3.1, 4.2.2, 4.2.7, 5.3, 10.1, 10.2, 10.4

## Samples, Definition of

3.12.3

## Samples, Shop Drawings, Product Data and

3.11, 3.12, 4.2.7

## Samples at the Site, Documents and

3.11

## Schedule of Values

9.2, 9.3.1

## Schedules, Construction

3.10, 3.12.1, 3.12.2, 6.1.3, 15.1.6.2

## Separate Contracts and Contractors

1.1.4, 3.12.5, 3.14.2, 4.2.4, 4.2.7, 6, 8.3.1, 12.1.2

## Separate Contractors, Definition of

6.1.1

## Shop Drawings, Definition of

3.12.1

## Shop Drawings, Product Data and Samples

3.11, 3.12, 4.2.7

## Site, Use of

3.13, 6.1.1, 6.2.1

## Site Inspections

3.2.2, 3.3.3, 3.7.1, 3.7.4, 4.2, 9.9.2, 9.4.2, 9.10.1, 13.4

## Site Visits, Architect's

3.7.4, 4.2.2, 4.2.9, 9.4.2, 9.5.1, 9.9.2, 9.10.1, 13.4

## Special Inspections and Testing

4.2.6, 12.2.1, 13.4

## Specifications, Definition of

1.1.6

## Specifications

1.1.1, 1.1.6, 1.2.2, 1.5, 3.12.10, 3.17, 4.2.14

## Statute of Limitations

15.1.2, 15.4.1.1

## Stopping the Work

2.2.2, 2.4, 9.7, 10.3, 14.1

## Stored Materials

6.2.1, 9.3.2, 10.2.1.2, 10.2.4

## Subcontractor, Definition of

5.1.1

## SUBCONTRACTORS

5

## Subcontractors, Work by

1.2.2, 3.3.2, 3.12.1, 3.18, 4.2.3, 5.2.3, 5.3, 5.4, 9.3.1.2, 9.6.7

## Subcontractual Relations

5.3, 5.4, 9.3.1.2, 9.6, 9.10, 10.2.1, 14.1, 14.2.1

## Submittals

3.10, 3.11, 3.12, 4.2.7, 5.2.1, 5.2.3, 7.3.4, 9.2, 9.3, 9.8, 9.9.1, 9.10.2, 9.10.3

## Submittal Schedule

3.10.2, 3.12.5, 4.2.7

## Subrogation, Waivers of

6.1.1, 11.3

## Substances, Hazardous

10.3

## Substantial Completion

4.2.9, 8.1.1, 8.1.3, 8.2.3, 9.4.2, 9.8, 9.9.1, 9.10.3, 12.2, 15.1.2

## Substantial Completion, Definition of

9.8.1

## Substitution of Subcontractors

5.2.3, 5.2.4

## Substitution of Architect

2.3.3

## Substitutions of Materials

3.4.2, 3.5, 7.3.8

## Sub-subcontractor, Definition of

5.1.2

## Subsurface Conditions

3.7.4

## Successors and Assigns

13.2

## Superintendent

3.9, 10.2.6

## Supervision and Construction Procedures

1.2.2, 3.3, 3.4, 3.12.10, 4.2.2, 4.2.7, 6.1.3, 6.2.4, 7.1.3, 7.3.4, 8.2, 8.3.1, 9.4.2, 10, 12, 14, 15.1.4

## Suppliers

1.5, 3.12.1, 4.2.4, 4.2.6, 5.2.1, 9.3, 9.4.2, 9.5.4, 9.6, 9.10.5, 14.2.1



Surety  
5.4.1.2, 9.6.8, 9.8.5, 9.10.2, 9.10.3, 11.1.2, 14.2.2,  
15.2.7

Surety, Consent of  
9.8.5, 9.10.2, 9.10.3

Surveys  
1.1.7, 2.3.4

## **Suspension by the Owner for Convenience 14.3**

Suspension of the Work  
3.7.5, 5.4.2, 14.3

Suspension or Termination of the Contract  
5.4.1.1, 14

**Taxes**  
3.6, 3.8.2.1, 7.3.4.4

**Termination by the Contractor  
14.1, 15.1.7**

**Termination by the Owner for Cause  
5.4.1.1, 14.2, 15.1.7**

**Termination by the Owner for Convenience  
14.4**

Termination of the Architect  
2.3.3

Termination of the Contractor Employment  
14.2.2

## **TERMINATION OR SUSPENSION OF THE CONTRACT 14**

**Tests and Inspections**  
3.1.3, 3.3.3, 3.7.1, 4.2.2, 4.2.6, 4.2.9, 9.4.2, 9.8.3,  
9.9.2, 9.10.1, 10.3.2, 12.2.1, **13.4**

## **TIME 8**

**Time, Delays and Extensions of**  
3.2.4, 3.7.4, 5.2.3, 7.2.1, 7.3.1, 7.4, **8.3**, 9.5.1, 9.7,  
10.3.2, 10.4, 14.3.2, 15.1.6, 15.2.5  
**Time Limits**  
2.1.2, 2.2, 2.5, 3.2.2, 3.10, 3.11, 3.12.5, 3.15.1, 4.2,  
5.2, 5.3, 5.4, 6.2.4, 7.3, 7.4, 8.2, 9.2, 9.3.1, 9.3.3, 9.4.1,  
9.5, 9.6, 9.7, 9.8, 9.9, 9.10, 12.2, 13.4, 14, 15.1.2,  
15.1.3, 15.4

**Time Limits on Claims**  
3.7.4, 10.2.8, 15.1.2, 15.1.3

Title to Work  
9.3.2, 9.3.3

## **UNCOVERING AND CORRECTION OF WORK 12**

### **Uncovering of Work 12.1**

Unforeseen Conditions, Concealed or Unknown  
3.7.4, 8.3.1, 10.3

Unit Prices  
7.3.3.2, 9.1.2

Use of Documents  
1.1.1, 1.5, 2.3.6, 3.12.6, 5.3

**Use of Site  
3.13, 6.1.1, 6.2.1**

**Values, Schedule of  
9.2, 9.3.1**

Waiver of Claims by the Architect  
13.3.2

Waiver of Claims by the Contractor  
9.10.5, 13.3.2, **15.1.7**

Waiver of Claims by the Owner  
9.9.3, 9.10.3, 9.10.4, 12.2.2.1, 13.3.2, 14.2.4, **15.1.7**

Waiver of Consequential Damages  
14.2.4, 15.1.7

Waiver of Liens  
9.3, 9.10.2, 9.10.4

**Waivers of Subrogation  
6.1.1, 11.3**

**Warranty  
3.5, 4.2.9, 9.3.3, 9.8.4, 9.9.1, 9.10.2, 9.10.4, 12.2.2,  
15.1.2**

Weather Delays  
8.3, 15.1.6.2

**Work, Definition of  
1.1.3**

Written Consent  
1.5.2, 3.4.2, 3.7.4, 3.12.8, 3.14.2, 4.1.2, 9.3.2, 9.10.3,  
13.2, 13.3.2, 15.4.4.2

Written Interpretations  
4.2.11, 4.2.12

Written Orders  
1.1.1, 2.4, 3.9, 7, 8.2.2, 12.1, 12.2, 13.4.2, 14.3.1

## **ARTICLE 1 GENERAL PROVISIONS**

### **§ 1.1 Basic Definitions**

#### **§ 1.1.1 The Contract Documents**

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

#### **§ 1.1.2 The Contract**

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

**§ 1.1.2.1** Notwithstanding Section 1.1.2, the Owner is (1) a third-party beneficiary of subcontracts, purchase orders and similar agreements between the Contractor and its Subcontractors and between Subcontractors and their Subcontractors, as set out in Section 5.3, and (2) a contingent assignee of such subcontracts, purchase orders and similar agreements, as set out in Section 5.4.

#### **§ 1.1.3 The Work**

The term "Work" means the construction and services required by the Contract Documents, whether completed or partially completed, and includes all other labor, materials, equipment, and services provided or to be provided by the Contractor and Subcontractors to fulfill the Contractor's obligations. The Work includes all work performed by Contractor and its Subcontractors at any tier on the Project prior to the date of this Contract, if any, and may constitute the whole or a part of the Project. The Work shall consist of all items set forth in, required by or reasonably inferable from Contract Documents in order to fully complete the Project, including, unless otherwise specifically excluded, all demolition and construction services, supervision, administration, coordination, tests, inspections, clean up, repairs and other items that are necessary and appropriate, together with the additional, collateral and incidental work and services required for completion of the Work as set forth in the Contract Documents.

#### **§ 1.1.4 The Project**

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

#### **§ 1.1.5 The Drawings**

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

#### **§ 1.1.6 The Specifications**

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

#### **§ 1.1.7 Instruments of Service**

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

## § 1.2 Correlation and Intent of the Contract Documents

§ 1.2.1 The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Contractor. The Contract Documents are complementary, and what is required by one shall be as binding as if required by all; performance by the Contractor shall be required only to the extent consistent with the Contract Documents and reasonably inferable from them as being necessary to produce the indicated results. The Work includes, unless specifically excluded, all demolition and construction services, construction supervision, administration, coordination, acquisition of permits and approvals, tests, inspections, clean up, repairs, and other items that are necessary and appropriate to complete construction of the Work together with the additional collateral and incidental work and services required for completion of the Work as set forth in the Contract Documents. Contractor is responsible for performing and completing the Work in a manner that provides a complete and functional Project for the Owner, and the Work includes all materials and labor required for provision of such a Project.

§ 1.2.1.1 If any provision of this Contract at any time is determined to be invalid, void or otherwise unenforceable for any reason, then the remaining provisions or portions of provisions shall remain in full force and effect and the offending provision shall be given the broadest meaning and effect allowed by law. The invalidity of any provision of the Contract Documents shall not invalidate the Contract or its remaining provisions. If it is determined that any provision of the Contract Documents violates any law, or is otherwise invalid or unenforceable, then that provision shall be revised to the extent necessary to make that provision legal and enforceable. In such case the Contract Documents shall be construed, to the fullest extent permitted by law, to give effect to the parties' intentions and purposes in executing the Contract.

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

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

§ 1.2.4 In the event of conflicts, inconsistencies, discrepancies or ambiguities between or among the Contract Documents, interpretations shall be based on the following order of precedence:

- .1 Modifications of the Contract, with those of later date having precedence over those of earlier date, and with those of the same date having precedence based upon Clauses .2 through .6 of this Section 1.2.4;
- .2 the Agreement;
- .3 these General Conditions;
- .4 addenda, with those of later date having precedence over those of earlier date;
- .5 the Drawings, with those in larger scale having precedence over those in smaller scale, and with notes and schedules thereon having precedence over the remainder; and
- .6 the Specifications.
- .7 Owner's Solicitation

§ 1.2.5 In the event of conflicts, inconsistencies, discrepancies or ambiguities between or among the Drawings, or between or among the Specifications, remaining after application of Section 1.2.4, those Drawings or Specifications of later date shall have precedence over those of earlier date. Drawings govern Specifications for quantity and location and Specifications govern Drawings for quality and performance. In the event of ambiguity in quantity or quality, the greater quantity and the better quality shall govern. Work described in the specifications that is not specifically located on the drawings is nonetheless included in the Work. Items reasonably inferred from the Drawings but not in the Drawings (e.g., missing doorknobs, electrical connections to HVAC, etc.) shall be deemed part of the Drawings. Reference in the singular to an article, device, item or piece of equipment shall include the larger of the number of such articles indicated in the Contract Documents or the number required to complete the installation. Figured or written dimensions govern scale dimensions, and large scale Drawings govern small scale Drawings; provided that where the Contract Documents provide for different or conflicting standards or requirements as to any portion of the Work, Contractor shall be obligated to provide the better quality, greater quantity, or comply with the more stringent requirements. In the event that work is shown on Drawings but not contained in Specifications or contained in the Specifications and not shown on the Drawings, it will be assumed the work as shown shall be provided at no change in the Contract Sum or Contract Time, according to the Drawings and/or Specifications. The Contractor shall not be entitled to an increase in the Contract Sum or Time arising out of an error or conflict where the Contractor failed adequately to review the Contract Documents and timely report the error or conflict to the Owner and the Architect. If a conflict, inconsistency, discrepancy or ambiguity nonetheless remains, the Contractor shall provide written notice

thereof to the Architect and the Owner. Thereafter, unless otherwise ordered in writing by the Architect, the Contractor shall provide the better quality of, and the greater quantity of, the Work. The provisions of this Section 1.2.5 shall apply only to conflicts, inconsistencies, discrepancies or ambiguities in express requirements of the Drawings and Specifications and not to interpretations thereof by the Owner or the Architect.

**§ 1.2.6** Where a conflict in Contract Document requirements occurs between the Specifications and Drawings or between Drawings only and clarification is not secured in writing prior to the Contractor's bid date or execution of this Agreement, whichever is earlier, the Contractor and its subcontractors at all tiers assume the responsibility and bear the risk that the bid assumption differs from the actual requirements of the Project. The Architect shall decide which of the conflicting requirements will govern based upon the most stringent of the requirements, and subject to the approval of the Owner, the Contractor shall perform the Work consistent with the Architect's decision without adjustment of the Contract Sum or Contract Time.

### **§ 1.3 Capitalization**

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

### **§ 1.4 Interpretation**

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

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

**§ 1.5.1** The Drawings, Specifications and other documents, including those in electronic form, prepared by the Architect and the Architect's consultants are Instruments of Service through which the Work to be executed by the Contractor is described. The Contractor and its Sub-Contractors may retain one record set. Unless otherwise indicated, the Architect and the Architect's consultants shall be deemed the authors of their respective Instruments of Service, including the Drawings and Specifications, and unless otherwise agreed with the Owner will retain all common law, statutory and other reserved rights, including copyrights. The Contractor, Subcontractors, Sub-subcontractors, and suppliers shall not own or claim a copyright in the Instruments of Service. Submittal or distribution to meet official regulatory requirements or for other purposes in connection with the Project is not to be construed as publication in derogation of the reserved rights.

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

### **§ 1.6 Notice**

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

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

### **§ 1.7 Transmission of Data in Digital Form**

If the parties intend to transmit Drawings or Specifications or any other information or documentation in digital form, they shall comply with the Owner's identified protocols or, in the absence of such protocol, shall endeavor to establish necessary protocols governing such transmissions, unless otherwise already provided in the Agreement or the Contract Documents.

## **§ 1.8 Execution of Contract Documents**

The Contract Documents shall be signed by the Owner and Contractor. If either the Owner or Contractor or both do not sign all the Contract Documents, the Contractor is responsible for identifying such unsigned Document prior to initiating the Work.

## **ARTICLE 2 OWNER**

### **§ 2.1 General**

**§ 2.1.1** The Owner is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The Owner shall designate in writing a representative who shall have express authority to bind the Owner with respect to all matters requiring the Owner's approval or authorization. Except as otherwise provided in Section 4.2.1, the Architect does not have such authority. Changes to the Contract involving modifications to the Contract Time or Contract Sum must be signed by an authorized representative of the Owner. The term "the Owner" means the Owner or the Owner's authorized representative. The only entity or person authorized to act for the Owner means the authorized representative outlined above, including any substituted authorized representative. Teachers, staff, a principal, custodians or others at the school who are not the Owner's authorized representatives are not authorized to act for Owner as to any matter regarding this Contract.

**§ 2.1.2** Owner shall have the right, but not the obligation, to have a representative on-site (who need not be the Owner's Representative identified above) to observe the progress of the Work. The presence of the Owner's representative shall in no way relieve the Contractor of Contractor's obligations to supervise the Work so that the Work is in conformity with the Contract Documents. The presence of Owner's representative on-site shall not be deemed in any respect to constitute an approval or concurrence by Owner that any portion of the Work has been properly executed, installed or completed in accordance with the Contract Documents, nor an assumption of any duty for the means and methods of performance of the Work. Owner's representative shall be entitled to make notes or audio or video recordings of conditions and activities observed and shall have the right to inspect and review activity reports, Contractor's logs or other information available on-site, or at Contractor's offices, provided that Owner Representative shall not materially delay the progress of the Work in undertaking such activities.

### **§ 2.2 Information Provided by the Owner**

**§ 2.2.1** The Owner has furnished the information describing physical characteristics, legal limitations and utility locations for the site of the Project to the extent indicated in the Invitation to Bid. The Contractor shall be entitled to reasonably rely on the accuracy of information furnished by the Owner but shall exercise proper precautions relating to the safe performance of the Work.

**§ 2.2.2** Where the Owner has designated information furnished under this Section 2.2 as "confidential," the Contractor shall keep the information confidential and shall not disclose it to any other person. However, the Contractor may disclose "confidential" information, after fourteen (14) days' notice to the Owner, only where disclosure is required by law, by a subpoena or other form of compulsory legal process issued by a court or governmental entity, or by court or arbitrator(s) order. The Contractor may also disclose "confidential" information on a need-to-know basis to its employees, consultants, sureties, Subcontractors and their employees, Sub-subcontractors, and others who need to know the content of such information solely and exclusively for the Project, on condition that they agree, in writing, to maintain the confidentiality of such information.

### **§ 2.3 Information and Services Required of the Owner**

**§ 2.3.1** Except for permits and fees that are the responsibility of the Contractor or Subcontractors under the Contract Documents or applicable law, including those required under Section 3.7.1, the Owner or the Architect shall secure and the Owner shall pay for the building permit, development fees, plan check fees, system development charges, road approach and right-of-way permits, air discharge permits and other similar necessary permits, approvals, easements, assessments and charges required for construction, use or occupancy of permanent structures or for permanent changes in existing facilities.

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

**§ 2.3.3** If the employment of the Architect terminates, the Owner shall employ a successor whose status under the Contract Documents shall be that of the Architect, but who need not be licensed to practice architecture.



**§ 2.3.4** Contractor shall confirm the location of each utility, shall excavate and where necessary dispose of each onsite utility and shall cap offsite utility as required by the Work and as may be included in the Specifications. At the Owner's request, Contractor shall make available to the Owner the results of any site investigation, test borings, analyses, studies, or other tests conducted by or in possession of Contractor or any of its agents. The Contractor shall confirm indicated dimensions and other aspects of existing conditions at the Project site as necessary for the proper performance of the Work. The Contractor may rely only on the accuracy of the technical information contained in surveys and other reports furnished by the Owner, and only to the extent Contractor does not have knowledge of information to the contrary. Contractor shall exercise special care in executing the subsurface work in proximity of known subsurface utilities, improvements and easements.

**§ 2.3.4.1** The Contractor shall be responsible for determining, prior to commencement of the Work, the locations of all underground utility lines, cables, pipelines and similar such underground public service installations within and serving the Project site, utilizing utility locating services or other means permitted by law. The Contractor shall coordinate with utility and other involved third-party representatives regarding utility locations and related issues, and shall hand excavate or otherwise take special precautions so as to perform the Work in such a manner as to avoid damaging, or interrupting the operation of, all utility lines, cables, pipelines and similar public service installations within and serving the Project site, whether above ground or underground.

**§ 2.3.5** The Owner shall furnish to the Contractor one (1) reproducible copy of the Drawings and Specifications at no cost to the Contractor. The Contractor's cost of reproducing or obtaining additional copies of the Drawings and Specifications as are required for the performance of the Work shall be included in the Contract Sum.

**§ 2.3.6** The Contractor agrees that the Owner shall have no obligation to deliver copies of notices of right to a lien received by the Owner from parties purporting to be performing or furnishing Work under the Contract or on the Project, and that the Owner's non-delivery of copies of such notices to the Contractor shall have no effect on the obligations of the Contractor to hold harmless and indemnify the Owner for mechanics', material suppliers', design professionals', construction or similar liens as required by the Contract or applicable law.

## **§ 2.4 The Owner's Right to Stop the Work**

If the Contractor fails to correct Work that is not in accordance with the requirements of the Contract Documents as required by Section 12.2 or fails to carry out Work in accordance with the Contract Documents, the Owner may issue a written order to the Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, the right of the Owner to stop the Work shall not give rise to a duty on the part of the Owner to exercise this right for the benefit of the Contractor or any other person or entity. This right shall be in addition to, and not in restriction of, the Owner's other rights under this Agreement and at law, and its exercise shall not excuse the Contractor from damages caused by breach of this Agreement or its responsibility for full performance of this Agreement.

## **§ 2.5 The Owner's Right to Carry Out the Work**

If the Contractor defaults or neglects to protect or carry out the Work in accordance with the Contract Documents and fails within a seven-day period after receipt of written notice from the Owner to commence and continue correction of such default or neglect with diligence and promptness, the Owner may, without prejudice to other remedies the Owner may have, correct such default or neglect. Pursuant to Section 9.5.1, a Certificate for Payment may be withheld or nullified in whole or in part, to the extent reasonably necessary to reimburse the Owner for the reasonable cost of correcting such deficiencies or protecting the Work, including but not limited to the Owner's attorneys' fees and related costs, disbursements and the Owner's expenses and compensation for the Architect's or the Owner's consultants additional services made necessary by such default, neglect, or failure. If current and future payments are not sufficient to cover such amounts, the Contractor shall pay the difference to the Owner. The right of the Owner to protect the Work or correct deficiencies in the Work shall not give rise to any duty on the part of the Owner to exercise this right for the benefit of the Contractor or any other person or entity, nor excuse any default by Contractor. If the Contractor disagrees with the actions of the Owner or the Architect, or the amounts claimed as costs to the Owner, the Contractor may file a Claim pursuant to Article 15.

## **§ 2.6 Owner's Audit Rights**

**§ 2.6.1** The Contractor shall keep full and detailed accounts and exercise such controls as may be necessary for proper financial management under this Contract, and the accounting and control systems shall be satisfactory to the Owner. The Contractor shall develop a system of cost control for the Work, including regular monitoring of actual costs for activities in progress and estimates for uncompleted tasks and proposed changes. The Contractor shall identify

variances between actual and estimated costs and report the variances to the Owner and the Architect at regular intervals, using Contractor's job-cost tracking system.

**§ 2.6.2** The Contractor's records, which shall include but not be limited to accounting records, written policies and procedures, subcontractor files (including proposals of successful and unsuccessful bidders), original estimates, estimating work sheets, correspondence, change order files (including documentation covering negotiated settlements), and any other supporting evidence necessary to substantiate charges related to the Contract shall be open to inspection and subject to audit and/or reproduction, during normal working hours, by the Owner's agents or authorized representatives. Such records subject to examination shall also include, but not be limited to, those records necessary to evaluate and verify direct and indirect costs (including overhead allocations) as they may apply to costs associated with the Contract and records relating to the performance of the Work. The Contractor shall preserve such records for a period of at least three years following the date of Final Acceptance under the Contract and for such longer period as may be required by any other provision of the Contract

**§ 2.6.3** For the purpose of such audits, inspections, examinations and evaluations, the Owner's agents or authorized representatives shall have access to said records from the commencement of the Contract for the duration of the Work and thereafter.

**§ 2.6.4** The Owner's agents or authorized representatives shall have access to all of the Contractor's facilities and databases where such records are located, and shall be provided adequate and appropriate work space, in order to conduct audits in compliance with this section.

### **§ 2.7 Nonwaiver of Rights By the Owner**

No action or inaction on the part of the Owner at any time in the exercise of any right or remedies conferred upon it under this Contract shall be deemed to be a waiver on the part of the Owner of any of its rights or remedies.

## **ARTICLE 3 CONTRACTOR**

### **§ 3.1 General**

**§ 3.1.1** The Contractor is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The Contractor shall be lawfully licensed in the jurisdiction where the Project is located, and shall cause all of its subcontractors at all tiers to be so lawfully licensed when required for performance of their portion of the Work. The Contractor shall designate in writing a representative who shall have express authority to bind the Contractor with respect to all matters under this Contract. The term "Contractor" means the Contractor or the Contractor's authorized representative.

**§ 3.1.1.1** Unless they leave the employ of the Contractor, the Contractor's Superintendent(s) and Project Manager(s) identified in this Agreement shall serve in these positions throughout the duration of the Contractor's performance of the Contract except as approved otherwise in writing in advance by the Owner. Persons named to replace those set out above shall be approved in writing in advance by the Owner. The Owner's approvals as required by this Clause shall not unreasonably be withheld. The Project Manager and Superintendent shall, among other things, supervise and coordinate all Work on the Project and shall attend and participate in all meetings throughout the Project unless excused from such attendance by the Owner.

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

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

**§ 3.1.4** The Contractor shall be and operate as an independent contractor under this Contract and in the performance of the Work and shall have complete control over and responsibility for all personnel performing the Work. In no event shall the Contractor be authorized to enter into any agreements or undertakings for or on behalf of the Owner or to act as or be an agent or employee of the Owner. The Contractor accepts the relationship of trust and confidence between Contractor and the Owner and agrees to furnish its best professional skill, judgment and efforts to accomplish the Work in an expeditious manner consistent with the best interests of the Owner. Contractor acknowledges that it has a relationship of special trust with the Owner, and that the Owner is relying on Contractor's expertise in entering into this Contract. Nothing in the Contract Documents is intended or shall be construed as creating any other relationship or designating Contractor as an agent for or joint venturer with the Owner.

§ 3.1.5 The Contractor shall (a) record the progress of the Work; (b) submit to the Owner a written progress report every month; (c) submit to the Owner such reports and notifications as the Owner may reasonably request from time to time; and (d) keep a daily log of information reasonably relevant to the Work.

**§ 3.2 Review of Contract Documents and Field Conditions by Contractor**

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

§ 3.2.2 Because the Contract Documents are complementary, the Contractor shall, before starting each portion of the Work, carefully study and compare the various Contract Documents relative to that portion of the Work, as well as the information furnished by the Owner pursuant to Section 2.3.4, shall take field measurements of any existing conditions related to that portion of the Work, and shall observe any conditions at the site affecting it and shall carefully compare such field measurements and conditions and other information known to the Contractor with the Contract Documents before commencing such activities. The Contractor shall prevent the dislocation or destruction of reference points and shall employ a registered land surveyor currently licensed in Oregon for, and be responsible for accuracy of layout and elevations for the Work. The Contractor shall promptly report in writing to the Architect and the Owner any errors, inconsistencies or omissions discovered by or made known to the Contractor as a request for information in such form as the Architect may require. The Contractor shall do no work without applicable Drawings, Specifications, the Architect's Supplemental Instructions, or written modifications or, where required, approved Shop Drawings, Product Data, or Samples, unless instructed to do so in writing by the Architect and the Owner. Where conflicts that the Contractor knew or reasonably should have known have not been brought to the Architect's attention in a timely manner, the Contractor will be deemed to have elected the method(s) or material (s) necessary in the Architect's opinion to reconcile the conflict as included in the Contract Sum and Contract Time. Any design errors or omissions noted by the Contractor during this review shall be reported promptly by Contractor to the Owner and the Architect but it is recognized that the Contractor's review is made in the Contractor's capacity as a contractor and not as a licensed design professional unless otherwise specifically provided in the Contract Documents.

§ 3.2.3 The Contractor is not required to ascertain that the Contract Documents are in accordance with applicable laws, statutes, ordinances, codes, rules and regulations, except for design build Work or lawful orders of public authorities, but the Contractor shall promptly report in writing to the Architect and the Owner any nonconformity discovered by or made known to the Contractor as a request for information in such form as the Architect may require. If the Contractor performs Work knowing it to be contrary to laws, statutes, ordinances, building codes, and rules and regulations without such notice to the Architect and the Owner, the Contractor shall assume appropriate responsibility for such Work and shall bear the costs attributable to correction.

§ 3.2.4 If the Contractor believes that additional cost or time is involved because of clarifications or instructions the Architect issues in response to the Contractor's notices or requests for information pursuant to Sections 3.2.2 or 3.2.3, the Contractor shall submit Claims as provided in Article 15. If the Contractor fails to perform the obligations of Sections 3.2.2 or 3.2.3, the Contractor shall pay such costs and damages to the Owner as would have been avoided if the Contractor had performed such obligations. If the Contractor performs those obligations, the Contractor shall not be liable to the Owner or the Architect for damages resulting from errors, inconsistencies or omissions in the Contract Documents, for differences between field measurements or conditions and the Contract Documents, or for nonconformities of the Contract Documents to applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities, except for unreported observed deficiencies or those items related to design-build or design-assist Work unless the Contractor recognized or reasonably should have recognized such error, inconsistency, omission, nonconformity or difference and failed to report it to the Architect and the Owner. If the Contractor performs any construction activity it knows or reasonably should have known involves an error, inconsistency or omission in the Contract Documents without such notice to the Architect and the Owner, the Contractor shall be responsible for such performance and shall bear the attributable costs for correction.

§ 3.2.4.1 Contractor shall confirm applicable requirements appearing in any easements, covenants and other record documents and in the event of any discovered conflict between any such requirement and the Drawings and Specifications shall immediately notify the Owner and the Architect.

§ 3.2.4.2 Any investigations of hidden or subsurface conditions have been made for design purposes. The results of these investigations may be bound into or referenced in the Contract Documents for the convenience of the Contractor



and Sub-contractors and are a part of the Contract Documents. There is no guarantee, express or implied, that the conditions indicated are representative of those existing throughout the site or that unforeseen developments not inferable from such investigations may not occur.

**§ 3.2.4.3** The Owner shall be entitled to deduct from the Contract Sum amounts paid by the Owner to the Architect for the Architect to evaluate and respond to the Contractor's requests for information, where such information was available to the Contractor from a study and comparison of the Contract Documents, field conditions, other Owner-provided information, Contractor-prepared coordination drawings, or prior Project correspondence or documentation.

**§ 3.2.5** Notwithstanding any other provision of the Contract, the Contractor hereby specifically acknowledges that the Contract Documents are sufficient to have enabled the Contractor to determine the cost of the Work therein in order to enter into the Contract, and that the Drawings, the Specifications and all Addenda and other Contract Documents are sufficient to enable the Contractor to perform the Work outlined therein in accordance with applicable laws, statutes, building codes and regulations and otherwise to fulfill all of its obligations hereunder. The Contractor further acknowledges that (a) it has visited and made a thorough examination of the jobsite and existing documentation, (b) it has examined all conditions affecting the Work, (c) it has reviewed necessary tests, surveys, studies and reports and all other conditions which might reasonably affect the progress of the Work as the Contractor deems advisable, and that it has satisfied itself by such review, (d) having carefully examined the jobsite and all Drawings, Specifications, and documents, the Contractor has satisfied itself that there are no discrepancies or omissions in the Contract Documents that a Contractor exercising professional General Contracting practices, skills, judgment, etc. would have reasonably recognized, (e) the Contract Sum includes payment for all Work that may be necessary to overcome unanticipated conditions that a Contractor exercising professional General Contracting practices, skills, judgment, etc. would have reasonably recognized, and (f) except as otherwise expressly provided for herein, no Claim for unforeseen or unforeseeable conditions or limitations that exist or may arise affecting the Work or difficulties in performing the Work will be accepted, nor shall it give rise to a Claim, nor shall it constitute an excuse or basis for any failure or omission by the Contractor or for extra compensation, or as a basis for an extension of time in which to complete performance of the Contract.

**§ 3.2.6** By executing this Contract, the Contractor represents and acknowledges that the Contract Sum is reasonable compensation for all the Work, that the Contract Time is adequate for the performance of the Work, and that it has carefully examined the contract documents and the Project site, including any existing structures, and that it has satisfied itself as to the nature, location, character, quality and quantity of the Work, the labor, materials, equipment, goods, supplies, work, services and other items to be furnished and all other requirements of the Contract Documents, as well as the surface conditions and other matters that may be encountered at the Project site or affect performance of the Work or the cost or difficulty thereof, including but not limited to those conditions and matters affecting: transportation, access, disposal, handling and storage of materials, equipment and other items; availability and quality of labor, water, electric power, utilities, drainage; availability and condition of roads; normal climatic conditions and seasons; physical conditions at the Project site and the surrounding locality; topography and ground surface conditions; and equipment and facilities needed preliminary to and at all times during the performance of the Work. The failure of the Contractor to acquaint itself with any such condition or matter shall not in any way relieve the Contractor from the responsibility for performing the Work in accordance with the Contract Documents and within the Contract Time and the Contract Sum. The Contractor acknowledges that having carefully examined the jobsite and all Drawings, Specifications, and documents, the Contractor has satisfied itself that there are no discrepancies or omissions in the Contract Documents that a Contractor exercising professional General Contracting practices, skills, judgment, etc. would have reasonably recognized.

### **§ 3.3 Supervision and Construction Procedures**

**§ 3.3.1** The Contractor shall supervise and direct the Work, using the Contractor's best skill and attention. The Contractor shall be solely responsible for, and have control over, construction means, methods, techniques, sequences, and procedures, and for coordinating all portions of the Work under the Contract. The Contractor shall review any such specific instructions and any construction or installation procedure specified in the Contract Documents, shall advise the Architect if following the instruction or procedure will affect any warranties. If the Contract Documents give specific instructions concerning construction means, methods, techniques, sequences, or procedures, the Contractor shall evaluate the jobsite safety thereof and, except as stated below, shall be solely responsible for the jobsite safety of such means, methods, techniques, sequences, or procedures. If the Contractor determines that such means, methods, techniques, sequences or procedures may not be safe, the Contractor shall give timely written notice to the Owner and the Architect, and shall propose alternative means, methods, techniques, sequences, or procedures.

Contractor shall not proceed with that portion of the Work without further written instructions from the Owner or the Architect. The Architect shall evaluate the proposed alternative solely for conformance with the design intent for the completed construction. Unless the Architect objects to the Contractor's proposed alternative, the Contractor shall perform the Work using its alternative means, methods, techniques, sequences, or procedures. The Contractor shall perform no portion of the Work without Contract Documents, or, where required, approved Shop Drawings, Product Data or Samples for such portion of the Work, unless authorized to do so by written instructions of the Owner. Where specific instructions are given in a Contract Document, the Contractor shall review the instructions, including those of manufacturers, and promptly notify the Architect and the Owner in writing if the specified instruction or procedure deviates from accepted construction practice, or normal procedure, or will affect warranties, or other responsibilities of the Contractor. The Contractor's notification shall include reasonable alternatives that the Contractor, exercising Professional judgment, believes will accomplish the original intent of the Contract Documents.

**§ 3.3.2** The Contractor shall be responsible to the Owner for acts and omissions of the Contractor's employees, Subcontractors at any tier, design professionals performing services on behalf of the Contractor or Subcontractors, and their respective agents and employees, and other persons or entities performing portions of the Work for, or on behalf of, the Contractor or any of its Subcontractors at any tier. The Contractor shall not be relieved of obligations to perform the Work in accordance with the Contract Documents either by activities or duties of the Architect in its administration of the Contract, or by tests, inspections or approvals required or performed by persons other than the Contractor.

**§ 3.3.3** The Contractor shall be responsible for inspection of portions of Work already performed to determine that such portions are in proper condition to receive subsequent Work. Under no conditions shall a section of Work proceed prior to preparatory work having been completed, cured, dried and otherwise made satisfactory to receive the related work. Responsibility for timely installation of all materials and equipment rests solely with the Contractor, who shall maintain coordination control at all times.

**§ 3.3.4** Prior to the commencement of construction, the Contractor shall prepare and obtain the Owner's approval of a construction site management plan, which will take into account requirements contained in the Specifications, and the Owner's requirements and restrictions concerning access and parking for construction personnel, staging areas and material delivery times, traffic flow requirements of the Owner and local governmental authorities, and work hours, among other things.

**§ 3.3.5** The Contractor shall perform such detailed examination, inspection and quality surveillance of the Work as will ensure that the Work is progressing and is being completed in strict accordance with the Contract Documents, including the latest issue of the Drawings and Specifications. The Contractor shall be responsible for examination, inspection and quality surveillance of all Work performed by any Subcontractor, and for each Subcontractors' performance of such Work itself. The Contractor shall determine when it is necessary to perform and shall perform, or arrange for the performance of, tests (in addition to those requested by the Owner or required by the Specifications or any other provision of the Contract Documents) to verify its inspections or to ensure that the Work is being completed in strict accordance with the Contract Documents. If any of the Work is required to be inspected or approved by any public authority, Contractor shall cause such inspection or approval to be performed. No inspection performed or failed to be performed by the Owner hereunder shall be a waiver of any of Contractor's obligations hereunder.

**§ 3.3.6** The Contractor shall plan and lay out all Work in advance of operations so as to coordinate all work without delay or revision. The Contractor shall establish and maintain existing lot lines, restrictions, and bench marks. The Contractor shall establish and maintain all other grades, lines, levels and bench marks necessary for the execution of the Work and take necessary steps to prevent their dislocation or destruction. For new building construction or additions, the Contractor shall employ a professional land surveyor registered in the State of Oregon to establish building corners and floor elevations. The land surveyor shall also provide a stamped and signed drawing certifying the actual location of the building corners in reference to the lot lines and actual floor elevations as constructed. The Contractor shall report errors or inconsistencies to the Owner and the Architect before commencing Work and review placement of the improvements on the site with the Owner and the Architect after all lines are staked out and before foundation work is started.

**§ 3.3.7** Should the Specifications and Drawings fail to particularly describe the material or kind of goods to be used in any place, or their method or integration into the Work, Contractor shall have the duty to make inquiry of the Owner and the Architect as to what is required prior to performance of the Work. Absent Specifications to the contrary, the

material that would normally be used to produce finished Work shall be considered a part of the Contract requirements.

**§ 3.3.8** If any of the Work is required to be inspected or approved by any public authority, Contractor shall cause such inspection or approval to be performed. No inspection performed or failed to be performed by the Owner hereunder shall be a waiver of any of Contractor's obligations hereunder.

**§ 3.3.9** Contractor acknowledges that it is Contractor's responsibility to hire all personnel for the proper and diligent prosecution of the Work, and Contractor shall use its best efforts to maintain labor peace by and/or among its employees and subcontractors for the duration of the project. In the event of a labor dispute related to this project, Contractor shall not be entitled to an increase in the Contract Sum or Contract Time if the dispute was caused by acts or omissions of Contractor, or Contractor's agents, Subcontractors or Suppliers.

#### **§ 3.4 Labor and Materials**

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

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

**§ 3.4.2.1** If prior to performing a certain portion of the Work, the Contractor desires to submit a substitute product or method for that Work in lieu of what has been specified, the Contractor shall provide written notice to the Architect and the Owner setting forth the following information and documents:

- .1 a full explanation of the proposed substitution and a submittal of all supporting data, including technical information, catalog cuts, warranties, test results, installation instructions, operation procedures and other like information necessary for a complete evaluation of the substitution;
- .2 reasons the substitution is advantageous and necessary, including but not limited to the benefits to the Owner and the Work in the event the substitution is accepted;
- .3 the adjustment, if any, in the Contract Sum, in the event the substitution is accepted;
- .4 the adjustment, if any, in the Contract Time and the Contractor's Construction Schedule in the event the substitution is accepted;
- .5 an affidavit stating that (1) the proposed substitution meets all the requirements of the Drawings and Specifications and (2) the Contractor will perform or cause to be performed the warranty and correction of Work obligations with respect to the proposed substitution that would have been performed for the specified product or method; and
- .6 the impact, if any, on the Subcontractors or other contractors performing Work on the Project, in the event the substitution is accepted.

Proposals for substitutions shall be submitted to the Architect and the Owner in sufficient time to allow the Architect and the Owner no less than fourteen (14) days for review.

By making requests for substitutions, the Contractor represents, warrants and certifies that: (1) the Contractor has personally investigated the proposed substitute product; (2) the Contractor will provide the same materials and labor warranty for the substitution that the Contractor would for that specified unless approved otherwise; (3) the substitute product is of equal or better quality and useful life to the originally-specified product; (4) the cost data presented is complete and includes all related costs under the Contract Documents except the Architect's redesign costs, and (5) the Contractor will coordinate the installation of the accepted substitute, making such changes as may be required for the Work to be completed in all respects. The Contractor will be responsible for the reasonable costs of any time the Owner and/or the Architect expends in reviewing a Contractor substitution request. Should the Contractor or the

Owner request substitution with a material or system of lesser quality and/or cost, if approved by the Owner, the Contractor shall compensate the Owner for the difference in cost through a deductive Change Order or Change Directive.

**§ 3.4.3** The Contractor shall enforce strict discipline and good order and civil and appropriate conduct among the Contractor's and Subcontractors' employees and other persons carrying out the Work. The Contractor shall not permit employment of unfit persons or persons not properly skilled in tasks assigned to them. The Contractor shall not permit at the site of the Work the use of alcohol, tobacco or cannabis, vaping, illegal use of drugs or other controlled substances, firearms or other weapons, verbal or other harassment, lewd or obscene language or behavior, or disregard for the property, privacy, or personal or business interests of the Owner or other occupants of adjacent or nearby parcels, or their respective contractors. The Contractor agrees to take prompt and effective corrective action in the event of violations of these standards of conduct. The Owner may require in writing the Contractor to immediately remove from the Work any employee or other person carrying out the Contract that the Owner considers objectionable. To the fullest extent permitted by Law, the Contractor shall not be entitled to any change to the Contract Sum or Contract Time as a result of any such removal required by the Owner.

**§ 3.4.4** The Contractor shall coordinate, supervise and otherwise administer the Work so as to maintain labor harmony between and among the trades performing the Work and so as to avoid lockouts, strikes and other labor-related events or circumstances which delay or otherwise impact the Work; provided that the Contractor's obligations under this Section 3.4.4 shall be limited to events and circumstances which occur substantially where the Work is performed or which result substantially from the actions of persons or entities performing the Work.

**§ 3.4.5** The Contractor agrees that each of its employees, subcontractors' employees and principals/owners involved in the Work may, at the option of the Owner, be subject to a security check, at any time, through the local police department or other venue. Notwithstanding the foregoing, Contractor, and not the Owner, remains solely responsible for performing background checks on, and screening for public safety all subcontractors at any tier and employees, and, to the extent allowed by law, shall provide such screening methodologies and information to the Owner upon request.

**§ 3.4.6** Contractor acknowledges that it is Contractor's responsibility to hire all personnel for the proper and diligent prosecution of the Work, and Contractor shall use its best efforts to maintain labor peace by and/or among its employees and subcontractors at all tiers for the duration of the project. In the event of a labor dispute related to this project, Contractor shall not be entitled to an increase in the Contract Sum or Contract Time if the dispute was caused by acts or omissions of Contractor, or Contractor's agents, subcontractors at any tier or suppliers.

**§ 3.4.7** If requested by the Owner, the Contractor and all Subcontractors' employees shall submit to fingerprinting and be subject to criminal background checks and any other rules and procedures of the Owner as a condition of entering the Project site.

## **§ 3.5 Warranty**

**§ 3.5.1** The Contractor warrants to the Owner and the Architect that materials and equipment furnished under the Contract will be of good quality and new unless the Contract Documents require or permit otherwise. The Contractor further warrants that the Work will conform to the requirements of the Contract Documents, will be performed in a good and workmanlike manner in accordance with manufacturer specifications where applicable, and will be free from defects, and that all materials and equipment selected by the Contractor or Subcontractor will be suitable for the purposes indicated in the Contract Documents. Work, materials, or equipment not conforming to these requirements may be considered defective. The Contractor's warranty excludes remedy for damage or defect caused by abuse, alterations to the Work not executed by the Contractor, improper or insufficient maintenance, improper operation, or normal wear and tear and normal usage. Notwithstanding the above, the contractor's warranty for all elements of the work shall hold regardless of normal wear and tear. If required by the Architect or the Owner, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment. This warranty shall be in addition to any other warranties required by the Specifications or provided by law. The Contractor shall assign to the Owner all other warranties at the time of final completion of the Work.

**§ 3.5.2** Without limitation of any remedy of the Owner, upon Substantial Completion of the Work or termination of the Contract, the Owner shall be entitled to enforce at its option any and all Subcontractor and manufacturer warranties relating to Work performed and materials and equipment furnished by such Subcontractors. The Contractor agrees to perform the Work in such manner so as to preserve any and all such manufacturer's warranties and Subcontractor



warranties. The Contractor also shall collect, assemble in a binder, and submit to the Owner, in a manner acceptable to the Owner, written Subcontractor warranties, manufacturer warranties and related documents, including without limitation from Subcontractors performing Work and furnishing materials, equipment, appliances and other components of the Project. The Contractor shall assign to the Owner all other warranties at the time of final completion of the Work.

**§ 3.5.3** The Contractor shall not be relieved of its general warranty obligations by the specification of a particular product or procedure in the Contract Documents. Warranties in the Contract Documents shall survive completion, acceptance and final payment. Contractor shall at Contractor's expense promptly pay and perform, to the reasonable satisfaction of the Owner, any repairs required of Contractor in fulfillment of the foregoing warranty obligations. Should Contractor fail to perform any maintenance or repair required of it pursuant to this Section 3.5 within seven (7) days of notice thereof from the Owner (provided no notice shall be required for emergency repairs), the Owner may make such repair and the Owner shall be entitled to recover directly from Contractor the reasonable cost thereof (including attorneys' fees) plus interest at the statutory rate thereon from the date of repair, immediately and upon demand by the Owner therefore.

**§ 3.5.4** All material, equipment, or other special warranties required by the Contract Documents shall be issued in the name of the Owner, or shall be transferable to the Owner, and shall commence in accordance with Section 9.

### **§ 3.6 Taxes**

The Contractor shall pay sales, consumer, use Business & Occupation, income, and similar taxes for the Work provided by the Contractor that are legally enacted when bids are received or negotiations concluded, whether or not yet effective or merely scheduled to go into effect. Such taxes are either separately stated or included in the Contract Sum. Contractor shall indemnify, defend and hold harmless the Owner from any liability for taxes and relating to the employees of Contractor, any Subcontractor or any Sub-subcontractor, including taxes and contributions required under the Federal Social Security Act and the unemployment compensation law or any similar law of any state. Contractor is advised that income taxes in Beaverton and surrounding areas may include, but not be limited to, taxation by the State of Oregon, by Washington County, and by Tri-Met.

### **§ 3.7 Permits, Fees, Notices and Compliance with Laws**

**§ 3.7.1** Unless otherwise designated by the Owner, the Contractor shall secure and pay for the building permit as well as for other permits, fees, licenses, and inspections by government agencies necessary for proper execution and completion of the Work that are customarily secured after execution of the Contract and legally required at the time bids are received or negotiations concluded. Without limitation to the foregoing, Contractor shall procure all certificates of inspection, use, occupancy, permits and licenses, pay all charges and fees and give all notices necessary and incidental to the due and lawful prosecution of the Work including without limitation street use and street closure permits. Certificates of inspection, use and temporary certificate of occupancy shall be delivered to the Owner by Contractor prior to (and as a condition to) Substantial Completion of the Work of each Phase in sufficient time for occupation of the Phase in accordance with the Contract Documents, and the final certificate of occupancy prior to (and as a condition to) Final Completion. The Owner will reimburse the Contractor for the actual cost, without markup, of the building permit, permanent utility connection permits and fees, and permits required for construction of work in the public right-of-way and associated bonds or assurances outside the Contract Sum. The Owner may, at its election, retain a firm to perform and pay for the permitting jurisdictions required special inspections. Any other required permits including trade permits and governmental fees, licenses and inspections necessary for proper execution and completion of the Work shall be the responsibility of the Contractor and are included in the Contract Sum. Contractor shall deliver an electronic copy in a PDF format of the building permit and attachments to the Architect and the Owner as soon as it is issued. Upon final completion, the Contractor shall deliver to the Owner all original permits, licenses and certificates of occupancy with photocopies to the Architect.

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

**§ 3.7.3** If the Contractor performs Work contrary to applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, or fails to perform any permit requirements, the Contractor shall assume appropriate responsibility for such Work and shall bear the costs attributable to correction and such other costs and damages to the Owner as would have been avoided if the Contractor had performed its obligations.

**§ 3.7.4** In addition to Contractor's indemnification and other obligations set forth in this Agreement, and its confirmation that Contractor is acting as an independent contractor, Contractor will defend, indemnify and save harmless the Owner and its Separate Contractors, consultants, and agents and employees of any of them against any and all settlement amounts and all liabilities, costs, losses, damages, fees (including attorney fees), and expenses in connection with any third-party legal proceeding (including administrative action, enforcement action, or other conduct or allegation by an individual, the Internal Revenue Service, or any state or local government agency or any other court, entity, or agency) asserting or predicated upon an alleged employment relationship or co- or joint employment relationship between any employees of Contractor or subcontractors at any tier (or such individual's or entity's employees or subcontractors) and any of the indemnified parties, or any obligation of the indemnified parties to pay or provide wages, withholding or employee benefits, including but not limited to such claims that assert or are predicated upon wrongdoing or alleged wrongdoing by the indemnified parties.

**§ 3.7.5 Concealed or Unknown Conditions**

If the Contractor encounters conditions at the site that are (1) subsurface or otherwise concealed physical conditions that differ materially from those indicated in the Contract Documents or (2) unknown physical conditions of an unusual nature that differ materially from those ordinarily found to exist and generally recognized as inherent in construction activities of the character provided for in the Contract Documents, the Contractor shall promptly provide notice to the Owner and the Architect before conditions are disturbed and in no event later than seven (7) days after first observance of the conditions; otherwise Contractor's Claim will be barred. The Architect will promptly investigate such conditions and, if the Architect determines that they differ materially and cause an increase or decrease in the Contractor's cost of, or time required for, performance of any part of the Work, will recommend that an equitable adjustment be made in the Contract Sum or Contract Time, or both. If the Owner or the Architect determines that the conditions at the site are not materially different from those indicated in the Contract Documents and that no change in the terms of the Contract is justified, the Owner or Architect shall promptly notify the Contractor in writing, stating the reasons. If either party disputes the Owner's or Architect's determination or recommendation, that party may submit a Claim as provided in Article 15. No increase to the Contract Sum or Contract Time shall be allowed if the Contractor knew of the concealed conditions prior to its executing the Contract or such conditions were reasonably discernable from the bidding documents or a careful review of the project site. If the Contractor encounters such a condition, and proceeds to perform any additional work or incur any additional jobsite costs in regard to such condition without prior written direction from the Owner, Contractor will be deemed to have acknowledged that such condition does not entitle Contractor to any additional compensation or extension of the Contract Time.

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

**§ 3.8 Allowances**

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

**§ 3.8.2** The allowances shall cover the entire cost of the Work to perform or furnish the allowance items, including without limitation the following:

- .1 cost to the Contractor of materials and equipment delivered at the site and all required taxes, less applicable trade discounts;
- .2 costs for unloading and handling at the site, labor, installation costs, overhead, profit, general conditions and other.

Whenever given costs, as agreed to in writing by the Owner, are more than or less than allowances, the Contract Sum shall be adjusted accordingly by Change Order. The amount of the Change Order shall reflect the difference between such actual agreed costs and the allowances under 3.8. The Contractor shall not perform any Work covered by an allowance before the execution by the Owner of a Change Order or Construction Change Directive incorporating the

Drawings and Specifications related to the allowance item and any adjustment to the Contract Sum. In the event that the Contractor performs Work covered by an allowance before the execution by the Owner of a Change Order or Construction Change Directive, any costs incurred in excess of the allowance amount will be at Contractor's expense and without reimbursement from the Owner. Periodically, during the course of construction, representatives of the Contractor shall advise the Owner of the cost status of each allowance. The Contractor shall provide this information in a timely manner, but always prior to the termination of the allowance Work. The intent of this subparagraph is to identify possible cost overrun exposure and bring same to the attention of the Owner as soon as possible.

**§ 3.8.3** Materials and equipment required under an allowance shall be proposed by Contractor and approved in writing by the Owner prior to procurement.

### **§ 3.9 Project Manager / Superintendent**

**§ 3.9.1** The Contractor shall employ a competent project manager and superintendent and necessary assistants who shall be in attendance at the Project site during performance of the Work as required by this Contract or as otherwise necessary or appropriate. The Project Manager and/or the Superintendent shall represent the Contractor, and communications given to the Project Manager and/or Superintendent shall be as binding as if given to the Contractor.

**§ 3.9.2** Unless the Superintendent and Project Manager are already identified in the Contract Documents, the Contractor, as soon as practicable after award of the Contract, shall notify the Owner and Architect of the name and qualifications of a proposed superintendent and project manager. Within 14 days of receipt of the information, the Owner or the Architect may notify the Contractor, stating whether the Owner or the Architect (1) has reasonable objection to the proposed superintendent or project manager; or (2) requires additional time for review. Failure of the Owner or the Architect to provide notice within the 14-day period shall constitute notice of no reasonable objection.

**§ 3.9.3** Unless otherwise agreed in writing, the Contractor shall cause the Superintendent to remain on the Project site whenever Subcontractors are present and not less than eight hours per day, five days per week, unless the job is closed down due to a legal holiday, a general strike, conditions beyond the control of the Contractor, termination of the contract in accordance with the Contract Documents, until Final Completion is attained.

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

**§ 3.9.5** Within ten (10) days after issuance of the Notice to Proceed, the Contractor shall furnish to the Architect and the Owner a chain-of-command organizational chart which includes all supervisory personnel, including the Project Manager, the project engineer and the Superintendent, that the Contractor intends to use on the Work. The chart shall specify any limits of authority for each person, including but not limited to their ability to speak for and bind the Contractor, as well as any limits on decision-making authority with respect to specific dollar values, contract time, and issues affecting quality of the Work. The Contractor shall also provide the Owner with a list of telephone numbers for all key personnel of the Contractor and its principal Subcontractors at all tiers for purposes of contacting personnel as the Owner reasonably determines necessary. Contractor shall periodically update the list as necessary to ensure the Owner has the most current information.

### **§ 3.10 Contractor's Construction and Submittal Schedules**

**§ 3.10.1** The Contractor, promptly but in any event within twenty (20) days after being awarded the Contract, shall submit for the Owner's and the Architect's information a Contractor's construction schedule for the Work. Contractor shall prepare the schedule using the critical path method (CPM). The schedule shall contain detail appropriate for the Project, including (1) the date of commencement of the Work, interim schedule milestone dates, and the date of Substantial Completion; (2) an apportionment of the Work by construction activity; and (3) the time required for completion of each portion of the Work. The Contractor shall load his labor resource requirements and constructed value to each task on the schedule unless the Owner elects to waive this requirement in writing. The Contractor shall monitor the progress of the Work for conformance with the requirements of the construction schedule and shall promptly advise the Owner of any delays or potential delays. The construction schedule shall be updated by Contractor to reflect actual conditions on a period described elsewhere herein. In the event any progress report indicates any delays, the Contractor shall propose an affirmative plan to adjust the schedule to correct the delay, including overtime and/or additional labor, if necessary. The schedule shall provide for the orderly progression of the Work to completion and shall not exceed time limits current under the Contract Documents. The schedule shall be revised at appropriate intervals as required by the conditions of the Work and Project. The schedule shall be related to

the entire Project to the extent required by the Contract Documents, and shall provide for expeditious and practicable execution of the Work.

§ 3.10.1.1 From time to time as appropriate during the performance of the Work but not less often than monthly, the Contractor shall prepare and submit to the Owner and the Architect, for the Owner's approval, a current, updated Contractor's construction schedule reflecting any and all changes and revisions.

§ 3.10.1.2 The Contractor shall take such actions as are necessary to adhere to the approved Contractor's construction schedule then in effect, which actions shall include as appropriate, but not be limited to, providing additional labor, supervision, materials, equipment, tools, Subcontractors and other services and facilities. For purposes of whether any Change Orders or Construction Change Directives extend the contractual dates of Substantial Completion and Final Completion, any "float" or "slack" time for the whole or any part of the Work shall not be for the exclusive use or benefit of either the Owner or the Contractor but shall be reserved and apportioned by the Owner and Contractor in accordance with the needs of the Project. The Contractor shall not be entitled to make a Claim based upon an alleged inability to complete the Project early.

§ 3.10.2 The Contractor, promptly after being awarded the Contract, but no more than twenty (20) calendar days after award, and thereafter as necessary to maintain a current submittal schedule, shall prepare and submit a submittal schedule for the Owner's and the Architect's approval. The Architect's approval shall not be unreasonably delayed or withheld. The submittal schedule shall (1) be coordinated with the Contractor's construction schedule, and (2) allow the Architect and the Owner reasonable time to review submittals. If the Contractor fails to submit a submittal schedule, or fails to provide submittals in accordance with the approved submittal schedule, the Contractor shall not be entitled to any increase in Contract Sum or extension of Contract Time based on the time required for review of submittals.

§ 3.10.3 The Contractor shall perform the Work in general accordance with the most recent schedules approved by the Owner and the Architect. The Contractor must include a response time of at least ten (10) days for the Architect's review and at least fourteen (14) days for review by the Architect's consultants. Neither the Owner nor the Architect can guarantee response times from governmental authorities, such as permitting agencies.

§ 3.10.4 In the event the Owner determines that the performance of the Work has not progressed or reached the level of completion required by the current, approved Contractor's construction schedule, the Owner shall have the right to order the Contractor to take corrective measures as necessary to restore the progress of the construction to the requirements of such schedule, including but not limited to (1) working additional shifts or overtime, (2) furnishing additional labor, services, materials, equipment and facilities and (3) other similar acceleration measures. The costs incurred by the Contractor pursuant to this Section 3.10.4 shall be paid by the Contractor.

§ 3.10.5 Without limiting the Owner's rights, upon demand by the Owner the Contractor shall prepare and submit to the Owner and the Architect a "Recovery Schedule," in a form and providing sufficient detail to explain and display how the Contractor intends to reschedule those activities to regain compliance with the Contractor's construction schedule during an agreed Recovery Period.

§ 3.10.5.1 Within seven (7) days after the Contractor's receipt of the Owner's demand for a Recovery Schedule, the Contractor shall present the Recovery Schedule to the Owner and the Architect. The Recovery Schedule shall represent the Contractor's best judgment as to how the Work should be made to comply with the Contractor's construction schedule within the agreed Recovery Period. The Recovery Schedule shall be prepared to a similar level of detail as the Contractor's construction schedule.

§ 3.10.6 **Progress Meetings** The Contractor shall participate in progress meetings held at least once every week or at more or less frequent intervals as may be described in the Contract Documents, with the Architect, the Owner, subcontractors at all tiers and other appropriate consultants. The Contractor shall fully brief the Architect and the Owner on the progress of the Work.

#### § 3.10.7 Reports

- .1 Progress Reports: Contractor shall prepare and deliver to the Owner at least monthly a progress report in a form and in sufficient detail as is reasonably acceptable to the Owner approved by the Owner. The progress report shall specify, among other things, an estimated percentage of completion, whether the Project is on schedule, and if not, the reasons therefore and the new proposed schedule, as well as the



number of days worked for each category of labor and the projected Work to be completed in the next succeeding month. The report shall include a listing and the status of all Change Orders, Modifications, bulletins, and other relevant documents, and shall detail any issues challenging completion of the Work on schedule and Contractor's solutions to same.

- .2 Additional Reports: Contractor shall prepare and deliver such additional reports as the Owner may reasonably request.
- .3 Logs: Contractor shall prepare and keep current, for the Architect's and the Owner's approval, logs or schedules reflecting the date the items were submitted, when a response is reasonably due and when receipt occurred of Requests for Information (RFI's), Change Order Requests (COR's), Change Orders (CO's) and submittals which shall be coordinated by Contractor with Contractor's construction schedule and which allows the Architect and the Owner reasonable time to review submittals or other such documents. Contractor shall post all logs to eBuilder or if eBuilder is not used, give the Owner access to such logs and schedules at all times. Logs shall be kept on Excel spread sheets unless other format is approved by the Owner Representative.

### **§ 3.11 Documents and Samples at the Site**

The Contractor shall make available, at the Project site and updated at least weekly, the Contract Documents, including Change Orders, Construction Change Directives, and other Modifications, in good order and marked currently to indicate field changes and selections made during construction, and otherwise marked to depict the as-built nature and configuration of the Work and the approved Shop Drawings, Product Data, Samples, and similar required submittals. Contractor also shall maintain at the Project site for the Owner and the Architect one current copy of all subcontracts with Subcontractors, RFIs, Requests For Change Proposals and Change Proposals. These shall be in electronic form or paper copy, available to the Architect and the Owner, and delivered to the Architect for submittal to the Owner no later than, and as a condition of, Final Completion of the Work as a record of the Work as constructed.

**§ 3.11.1** The marked record Drawings and Specifications referenced shall be marked to show field decisions and selections affecting the Work, including but not limited to information regarding (1) approved or directed deviations from the Drawings and Specifications made during construction, (2) details of Work not previously shown or indicated, (3) changes to existing conditions or existing conditions found to differ from those shown on the Drawings or Specifications and (4) other information that the Architect or the Owner reasonably requests. The final set of marked Drawings shall be on drawings in PDF format and in reproducible hardcopy, with each hardcopy sheet stamped "As-Built" and signed by the Contractor. The final act of marked Specifications shall be in PDF format on disk and in reproducible hardcopy, with each hardcopy page stamped "As-Built" and signed by the Contractor.

**§ 3.11.2** The location of all existing or new hidden piping, valves, and utilities, as located during the course of construction, shall be appropriately marked on plans. The approved permit set of plans shall also be available to the Architect and the Owner at the site.

**§ 3.11.3** Contractor shall submit to the Architect with each Application for Payment an accurate and updated set of field drawings, in such format as the Architect may reasonably request, marked currently to record field changes and selections. Upon final completion of the Work the Contractor shall certify that the record documents reflect complete and accurate "as-built" conditions and shall deliver the documents as well as the approved permit set of plans in good condition to the Architect for submittal to the Owner in accordance with the provisions of the Contract Documents. Contractor shall indicate on the face of each as-built drawing its concurrence that the as-built drawings are accurate. Satisfactory maintenance and submission of up-to-date record drawings will be a requirement and condition for approval of progress payments. Notwithstanding the completion of the as-built drawings and any review and correction of such drawings by Contractor, neither the Architect nor Contractor shall be relieved of any responsibility each has under its contract with District for the execution and completion of Work in compliance with the Contract Documents.

### **§ 3.12 Shop Drawings, Product Data and Samples**

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

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

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

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

§ 3.12.5 The Contractor shall review for compliance with the Contract Documents, approve (including any approval of conforming with the submittal requirements as specified in the Contract Documents), and submit to the Architect, Shop Drawings, Product Data, Samples, and similar submittals required by the Contract Documents, in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule, with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of the Owner or of Separate Contractors. The Contractor shall be responsible for all costs associated with Shop Drawings, Product Data and Samples submitted out of sequence through the fault of Contractor. Submittals which are not marked as reviewed and approved by the Contractor for conformance with the submittal requirements of the Contract Documents may be returned by the Architect without action.

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

§ 3.12.7 The Contractor shall perform no portion of the Work for which the Contract Documents require submittal and review of Shop Drawings, Product Data, Samples, or similar submittals, until the respective submittal has been approved or release for use by the Architect.

§ 3.12.8 The Work shall be in accordance with approved submittals except that the Contractor shall not be relieved of responsibility for deviations from the requirements of the Contract Documents by the Architect's or the Owner's approval of Shop Drawings, Product Data, Samples, or similar submittals, unless the Contractor has specifically notified the Architect and the Owner in writing of such deviation at the time of submittal and (1) the Architect has given written approval to the specific deviation as a minor change in the Work, or (2) a Change Order or Construction Change Directive has been issued authorizing the deviation. Any corrections or modifications to Shop Drawings requested by the Architect shall be deemed accepted by the Contractor, without change in Contract Sum or Contract Time, unless the Contractor provides the Architect with written notice specifically identifying the deviation and impact before commencing any Work from such Shop Drawings. The Contractor shall make all corrections and modifications requested by the Architect and, when requested by the Architect, provide a corrected Submittal. Notwithstanding the foregoing, the Contractor shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples, or similar submittals, by the Architect's and the Owner's approval or review thereof. The Contractor shall be solely responsible for errors or omissions in all submittals and Shop Drawings, whether or not the submittals and Shop Drawings have been reviewed or approved by the Architect or the Owner.

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

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

§ 3.12.10.1 If professional design services or certifications by a design professional related to systems, materials, or equipment are specifically required of the Contractor by the Contract Documents, the Owner and the Architect will specify all performance and design criteria that such services must satisfy. The Contractor shall cause such services or

certifications to be provided by a properly licensed design professional, whose signature and seal shall appear on all drawings, calculations, specifications, certifications, Shop Drawings and other submittals prepared by such professional. Contractor shall cause such portions of the Work to be designed, engineered, and permitted, and to construct such Work in accordance with all such criteria, in accordance with all applicable laws and codes, and in a manner such that these systems are functioning and properly integrated into the remainder of the Work. Any of Contractor's (or any Subcontractor's) design or engineering professionals shall carry errors and omissions coverage of at least \$1,000,000 for the design and engineering of such Work. The premium for errors and omissions coverages is included in the Contract Sum. The Owner will be the Owner of all design and engineering documents so generated for the Work. They are not to be used by Contractor or its Subcontractors on any other project and shall be given to the Owner or destroyed upon completion of the Work, at the Owner's discretion. Contractor shall cause shop drawings and designs for such Work to be submitted in a timely fashion to the Architect for review in accordance with the schedule requirements. Shop Drawings, and other submittals related to the Work, designed or certified by such professional, if prepared by others, shall bear such professional's written approval when submitted to the Architect. The Owner and the Architect shall be entitled to rely upon the adequacy and accuracy and completeness of the services, certifications, and approvals performed or provided by such design professionals, provided the Owner and the Architect have specified to the Contractor the performance and design criteria that such services must satisfy. Pursuant to this Section 3.12.10, the Architect or the Owner will review and approve or take other appropriate action on submittals only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. Contractor shall submit a copy of all design documents prepared by such design professionals to the Owner and to the Architect. The Owner will have an irrevocable, perpetual license to use all design documents generated by Contractor or its Subcontractors at any tier. They are not to be used by Contractor or its Subcontractors on any other project and shall be given to the Owner upon completion of the Work.

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

**§ 3.12.11** Any corrections or modifications to Shop Drawings and other submittals made by the Architect shall be deemed acceptable by the Contractor, without change in the Contract Sum or Contract Time, unless said changes constitute changes to the Contract Documents and the Contractor provides the Architect with contrary written notice before commencing any such changed Work. In the absence of such notice, the Contractor shall make all corrections requested by the Architect and provide a corrected submittal without change in the Contract Sum or Contract Time.

### **§ 3.13 Use of Site**

The Contractor shall confine operations at the site to areas permitted by applicable laws, statutes, ordinances, codes, permits, rules and regulations, and lawful orders of public authorities, and the Contract Documents, and shall not unreasonably encumber the site with materials or equipment. Portions of the site may be occupied and in use during construction. Contractor shall maintain access and services to minimize disturbance to occupants and to allow the Owner to utilize the occupied portion of the site throughout the construction period. Without limitation, the Contractor shall at all times and at its expense fully comply with the requirements of all applicable laws pertaining to storm water discharges and mitigation requirements.

**§ 3.13.1** The Owner shall have the exclusive rights to approve of any signs erected at the Project, including without limitation signs placed on cranes or other equipment, company names, advertising on trailers, or other signs. The Contractor and all Subcontractors shall notify the Owner before signs are erected and shall obtain approval of their placement. No signs or advertising media of any nature shall be permitted on the site of Work or enclosing structures without the written approval of the Owner. Any approved signs shall comply with the applicable laws, ordinances, and/or rules. Contractor shall not use in its external advertising, marketing programs, or other promotional efforts, any data, pictures or other representations of the Owner, except with prior specific written authorization from the Owner.

**§ 3.13.2** Prior to the commencement of construction, the Contractor shall prepare and obtain the Owner's approval of a construction site management plan, which will take into account requirements contained in the Specifications, and the Owner's requirements and restrictions concerning access and parking for construction personnel, staging areas and material delivery times, traffic flow requirements of the Owner and local governmental authorities, and work hours, among other things.

### § 3.14 Cutting and Patching

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

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

§ 3.14.3 Existing structures and facilities, including but not limited to buildings, utilities, topography, streets, curbs, and walks, that are damaged or removed due to excavations or other construction work, shall be patched, repaired, or replaced by the Contractor to the satisfaction of the Architect, the Owner of such structures and facilities, and governmental authorities having jurisdiction. In the event the governmental authorities require that the repairing and patching be done with their own labor and/or materials, the Contractor shall abide by such regulations and it shall pay for such work.

### § 3.15 Cleaning Up

§ 3.15.1 The Contractor shall keep the premises and surrounding area in a clean condition, free from accumulation of waste materials and rubbish, excavated materials and “tracking” caused by operations under the Contract, on a daily basis or such other period as is acceptable to the Owner. At completion of the Work, the Contractor shall remove from the site, the surrounding area and contiguous roads, streets and sidewalks waste materials, rubbish, the Contractor’s and Subcontractor’s tools, construction equipment, machinery, and surplus materials from and about the Project and clean all surfaces.

§ 3.15.2 If the Contractor fails to clean up as provided in the Contract Documents, the Owner may do so and the Owner shall be entitled to immediate reimbursement from, or an offset of charges from the Contractor for the costs (internal or external) incurred by the Owner.

§ 3.15.3 The Contractor’s obligations under this Section 3.15 shall include the proper disposal of all such waste materials, rubbish and disposable surplus materials consistent with and in compliance with all applicable laws, statutes, ordinances, codes, rules, regulations and lawful orders of public authorities, including without limitation those relating to hazardous materials and the environment.

### § 3.16 Access to Work

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

### § 3.17 Royalties, Patents and Copyrights

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

### § 3.18 Indemnification

§ 3.18.1 To the fullest extent permitted by law, the Contractor shall indemnify, protect, defend and hold harmless, and reimburse the Owner, the Architect, the Architect’s consultants, and the members, partners, officers, directors, agents, employees and successors of any of them from, for and against suits, actions, awards, penalties, liabilities, claims, damages, losses, costs, and expenses, direct and indirect, or consequential, whether directly incurred or from third parties, including but not limited to attorneys’ fees, costs, design professional fees, consultant and expert witness fees and other costs incurred on such claims, and in proving the right to indemnification arising out of or resulting from performance of the Work, including but not limited to any such suit, action, award, penalty, liability, claim, damage, loss or expense attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible



property in any event to the extent caused, in whole or in part, by (1) the negligent or other wrongful acts or omissions of the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable or (2) the failure of such person or entities to perform in accordance with the Contract. The Contractor's obligation under this Article 3.18 shall include damage to the Owner's own property and the Project itself, regardless of whether or not such claim, damage, loss, or expense is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity that would otherwise exist as to a party or person described in this Section 3.18. Contractor's duty of defense shall arise immediately upon assertion of any claim actually or allegedly covered by this indemnification provision, and, to the fullest extent allowed by law, shall be independent of any limitations upon Contractor's duty of indemnification.

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

**§ 3.18.3** If any provision of this Contract is determined to require either party to indemnify, defend, reimburse, hold harmless or provide insurance to the other party (or that party's insurers or sureties) in a manner that would violate applicable law (including but not limited to ORS 30.140), then the offending provision shall be construed such that it is given the broadest meaning and effect allowed by law.

**§ 3.18.4** The indemnities and other covenants of this Section 3.18 shall survive the termination of the Contract.

## **ARTICLE 4 ARCHITECT**

### **§ 4.1 General**

**§ 4.1.1** The Architect is the person or entity retained by the Owner pursuant to Section 2.3.2 and identified as such in the Agreement. Nothing herein shall require the Owner to designate the Architect. If no such party is designated, the Owner shall reserve, for itself or a third party under contract with the Owner, the administrative duties, rights, and responsibilities of the Architect herein.

**§ 4.1.2** Duties, responsibilities, and limitations of authority of the Architect as set forth in the Contract Documents shall not be restricted, modified, or extended without written consent of the Owner. Notwithstanding any provision of the Contract to the contrary, the Contractor agrees that any matter which is subject to the review, interpretation, approval, consent or direction of the Architect shall also be subject to the review, interpretation, approval, consent or direction of the Owner, whose opinions(s) shall govern and bind the Contractor in the event of any disagreement between the Owner (on the one hand) and the Architect (on the other hand).

**§ 4.1.3** In the event of a termination of the Architect or a restriction of the duties, responsibilities or authority of the Architect as described in the Contract Documents, the Owner or a third party under contract with the Owner may carry out those duties, responsibilities and authority of the Architect; provided that all such duties, responsibilities and authorities that by law must be carried out by a licensed design professional shall be carried out by a licensed design professional.

### **§ 4.2 Administration of the Contract**

**§ 4.2.1** At the direction of the Owner, the Architect will provide administration of the Contract as described in the Contract Documents during construction until the date the Owner or the Architect issues the final Certificate for Payment. The Architect will have authority to act on behalf of the Owner only to the extent provided in the Contract Documents.

- .1** With the Owner's concurrence, the Architect may also provide administration from time to time during the period for correction of Work described in Section 12.2.

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

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

**§ 4.2.2.1** The Contractor acknowledges that the Architect is not the Owner's agent and does not have authority to make any decision or give any direction to the Contractor that would impact the Contract Sum or Contract Time without the prior written approval of the Owner.

**§ 4.2.3** On the basis of the site visits, the Architect will keep the Owner reasonably informed about the progress and quality of the portion of the Work completed, and report to the Owner (1) known deviations from the Contract Documents, (2) known deviations from the most recent construction schedule submitted by the Contractor, and (3) defects and deficiencies observed in the Work. Neither the Architect nor the Owner will be responsible for the Contractor's failure to perform the Work in accordance with the requirements of the Contract Documents. Neither the Architect nor the Owner will have control over or charge of, and will not be responsible for acts or omissions of, the Contractor, Subcontractors at any tier, or their agents or employees, or any other persons or entities performing portions of the Work.

#### **§ 4.2.4 Communications**

The Contractor shall endeavor to communicate through the Architect about matters arising out of or relating to the Contract; provided that the Owner and Contractor may communicate directly with each other at any time regarding the Project. Communications by and with the Architect's consultants shall be through the Architect with copies to be given to the Owner's Project Manager. Communications by and with Subcontractors and suppliers shall be through the Contractor, unless at that time the Owner believes it has cause to communicate with them directly or determines the Contractor is in breach of the Contract Documents. Communications by and with Separate Contractors shall be through the Owner. The Contract Documents may specify other communication protocols.

**§ 4.2.4.1** The Contractor shall provide the Owner with a direct copy of all written communications to or from the Architect, including all notes, requests, claims and potential changes in the Contract Sum or Time.

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

**§ 4.2.6** The Owner and the Architect, after consultation with the Owner, will have authority to reject Work that is defective or does not conform to the Contract Documents. Whenever the Architect or the Owner considers it necessary or advisable, and after obtaining the Owner's permission in each instance, the Architect will have authority to require inspection or testing of the Work in accordance with Section 13.4, whether or not such Work is fabricated, installed or completed. However, neither this authority of the Architect or the Owner nor a decision made in good faith either to exercise or not to exercise such authority shall give rise to a duty or responsibility of the Architect or the Owner to the Contractor, Subcontractors, their agents or employees, or other persons or entities performing portions of the Work.

**§ 4.2.7** The Architect will review and approve, or take other appropriate action upon, the Contractor's submittals such as Shop Drawings, Product Data, and Samples, but only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. The Architect's action will be taken in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule, with reasonable promptness while allowing sufficient time in the Architect's professional judgment to permit adequate review. Contractor shall provide submittals for review so as to cause no delay in the Work. Review of such submittals is not conducted for the purpose of determining the accuracy and completeness of other details such as dimensions and quantities, or for substantiating instructions for fabrication, installation or performance of equipment or systems, all of which remain the responsibility of the Contractor as required by the Contract Documents. The Architect's review of the Contractor's submittals shall not relieve the Contractor of the obligations under the Contract Documents. The Architect's review is undertaken solely to satisfy its obligations to the Owner and shall not give rise to any claim by the Contractor or Subcontractors against the Architect or the Owner. The Architect's review shall not constitute approval of safety precautions or of any construction means, methods, techniques, sequences, or procedures. The Architect's approval of a specific item shall not indicate approval of an assembly of which the item is a component. The Contractor should expect a submittal review cycle time of up to 14 days, although the Owner may in its discretion, at the request of Contractor, request that the Architect accelerate certain submittal reviews where these are shown to Owner to be necessary for the Project schedule. Neither the Owner nor the Architect can guarantee response times from governmental authorities.

§ 4.2.8 With the written approval of the Owner, the Architect will prepare Change Orders and Construction Change Directives, and may authorize minor changes in the Work as provided in Section 7.4. At the Owner's request, the Architect will investigate and make determinations and recommendations regarding concealed and unknown conditions as provided in Section 3.7.5.

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

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

§ 4.2.11 At the Owner's written request, the Architect will interpret and decide matters concerning performance under, and requirements of, the Contract Documents. The Architect's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable promptness. If no agreement is made concerning the time within which interpretations required of the Architect shall be furnished, then delay shall not be recognized on account of failure by the Architect to furnish such interpretations until at least 15 days after written request is made for them accompanied by sufficient information for the determination.

§ 4.2.12 Interpretations and decisions of the Architect will be consistent with the intent of, and reasonably inferable from, the Contract Documents and will be in writing or in the form of drawings.

§ 4.2.13 The Architect's decisions on all matters will be final only if approved by the Owner. The Architect will review and respond to requests for information about the Contract Documents. The Architect's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable promptness. If appropriate, the Architect will prepare and issue supplemental Drawings and Specifications in response to the requests for information.

§ 4.2.14 In reviewing the quality and progress of the Work and submittals received from the Contractor, the Architect is acting solely for the convenience of the Owner. Neither the Owner nor the Architect has any responsibility to assist the Contractor in the supervision or performance of the Work. No action, approval or omission to act or failure to advise the Contractor as to any matter by the Owner or the Architect shall in any way relieve the Contractor from its responsibility for the performance of the Work in accordance with the Contract Documents. Neither the Architect nor the Owner will be responsible for defining the extent of any subcontract or dealing with disputes between the Contractor and third parties. The presence of the Architect or the Owner at the site shall not in any manner be construed as assurance that the Work is being completed in compliance with the Contract Documents, nor as evidence that any requirement of the Contract Documents of any kind, including notice, has been met or waived.

## ARTICLE 5 SUBCONTRACTORS

### § 5.1 Definitions

§ 5.1.1 A Subcontractor is a person or entity who has a direct contract with the Contractor to perform a portion of the Work at the site or to supply materials or equipment. The term "Subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Subcontractor or an authorized representative of the Subcontractor. The term "Subcontractor" does not include a Separate Contractor or the subcontractors of a Separate Contractor. Unless the context indicates otherwise, the term "Subcontractor" also includes subcontractors, suppliers and consultants of the Contractor at all tiers, including subcontractors, suppliers and consultants of other Subcontractors.

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

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

§ 5.2.1 Unless otherwise stated in the Contract Documents or already-submitted first-tier disclosure, the Contractor, as soon as practicable after Notice of Intent of award of the Contract (but not later than ten (10) days after the Notice of Intent), shall notify the Owner and the Architect of the persons or entities proposed for each principal portion of the Work, including those who are to furnish materials or equipment fabricated to a special design. The Contractor shall organize this list of Subcontractors in the same sequence as the Index of Specifications Sections, and state the Work category followed by the name of the Subcontractor and/or fabricator (or “Contractor” where the portion of the Work is by the Contractor’s own forces). The list shall be accompanied by evidence of any qualifications required within the technical Sections of the Project Manual and satisfactory to the Architect and the Owner. This list shall be updated monthly as part of the payment process if additional Subcontractors are engaged. No progress payment will become due until this information is so furnished. No action or inaction of the Owner or the Architect in response to receipt of the names of the proposed Subcontractors or Suppliers of any tier shall constitute approval of any Subcontractor or Supplier of any tier or of its performance. Within 14 days of receipt of the information, the Owner may notify the Contractor whether the Owner (1) has reasonable objection to any such proposed person or entity or (2) requires additional time for review. Failure of the Owner to provide notice within the 14-day period shall constitute notice of no reasonable objection. If the Owner concludes that a proposed Subcontractor has materially failed to perform satisfactorily (such as causing a material delay or an unsafe working environment) on one or more projects for the Owner within three years of the bidding date or that a proposed Subcontractor is otherwise not “responsible”, at the Owner’s request, objection will be deemed reasonable and the Contractor shall replace the Subcontractor. Such a replacement shall not relieve the Contractor of its responsibility for the performance of the work or compliance with all of the requirements of the Contract within the Contract Sum or the Contract Time, except that the Owner will be responsible for the difference between the original Subcontractor’s sub-bid and the replacement Subcontractor’s sub-bid including any schedule impact. Notwithstanding the above, if the Owner finds the Subcontractor irresponsible based on past performance which was known to the Contractor or reasonably should have been known to the Contractor, then replacement with another Subcontractor shall not result in any change to Contract Sum and/or Contract Time.

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

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

§ 5.2.4 The Contractor shall not substitute a Subcontractor, person, or entity for one previously selected if the Owner or the Architect makes reasonable objection to such substitution. If the Owner reasonably concludes that any portion of the Work subcontracted by the Contractor is not being prosecuted in accordance with the Contract Documents, the Contractor shall, upon request of the Owner, remove the Subcontractor performing such work. Such removal shall not relieve the Contractor of its responsibility for the performance of the Work or complying with all of the requirements of the Contract within the Contract Sum and Contract Time.

§ 5.2.5 Notwithstanding the foregoing procedures, the Contractor may only engage and substitute first tier subcontractors as permitted by ORS 279C370, 279C.585, and 279C.590.

## § 5.3 Subcontractual Relations

By appropriate written agreement, the Contractor shall require each first-tier Subcontractor, to the extent of the Work to be performed by the first-tier Subcontractor, to be bound to the Contractor by terms of the Contract Documents, and to assume toward the Contractor all the obligations and responsibilities, including the responsibility for safety of the first-tier Subcontractor’s Work that the Contractor, by these Contract Documents, assumes toward the Owner and the Architect. Each subcontract agreement shall preserve and protect the rights of the Owner and the Architect under the Contract Documents with respect to the Work to be performed by the first-tier Subcontractor so that subcontracting



thereof will not prejudice such rights, and shall allow to the first-tier Subcontractor, unless specifically provided otherwise in the subcontract, purchase order, and similar agreement, the benefit of all rights, remedies, and redress against the Contractor that the Contractor, by the Contract Documents, has against the Owner. The Contractor shall require each first-tier Subcontractor to enter into similar agreements with Sub-subcontractors. The Contractor shall make available to each proposed first-tier Subcontractor, prior to the execution of the subcontract, purchase order, or similar agreement, copies of the Contract Documents to which the first-tier Subcontractor will be bound, and, upon written request of the first-tier Subcontractor, identify to the first-tier Subcontractor terms and conditions of the proposed subcontract, purchase order, or similar agreement that may be at variance with the Contract Documents. First-tier Subcontractors will similarly make copies of applicable portions of such documents available to their respective proposed Sub-subcontractors. The Contractor shall provide to the Owner copies of the written agreements between the Contractor and any subcontractor on request.

**§ 5.3.1** The Contractor shall pay each Subcontractor, upon receipt of payment from the Owner, an amount equal to the percentage of completion allowed to the Contractor on account of such Subcontractor's work, less the percentage retained. Contractor shall require each Subcontractor to make similar payments to its Sub-subcontractor. The Contractor shall defend, indemnify and hold harmless the Owner from any liens and Subcontractor claims, including all expenses and attorneys' fees.

**§ 5.3.2** Each subcontract, purchase order, and similar agreement shall state that the Subcontractor agrees to the contingent assignment of the subcontract, purchase order, or similar agreement to the Owner, consistent with Section 5.4. Each subcontract, purchase order and similar agreement at every tier shall provide that the Owner is and shall be a third-party beneficiary of such subcontract, purchase order and similar agreement, and that the Owner shall have the right, but not the obligation, to assert claims directly against the Subcontractor for breach of contract, breach of express warranties, breach of implied warranties including but not limited to warranties of merchantability and of fitness for a particular purpose, negligence and other claims arising out of or related to the Work or the Project. The Owner and Contractor acknowledge and agree that the purpose of this Section 5.3.2 is to enable the Owner at its discretion, in addition to the Contractor, to assert claims for damages and indemnification directly against Subcontractors that are or may be responsible for breach of the contract, defects in the Work, and other damages incurred by the Owner arising out of or related to the Work or the Project.

**§ 5.3.3** Contractor shall include with every Subcontract agreement the following language: "Subcontractor binds itself to Contractor and Owner, and is obligated to Contractor and Owner, in the same manner and to the same extent that Contractor is bound and obligated to Owner under the Prime Contract. In the event of any dispute between the Owner and Contractor, Subcontractor shall be bound by all decisions, directives, interpretations and rulings of the Owner or the Architect, at Owner's option, including Owner's termination or suspension of Contractor."

**§ 5.3.4** The Contractor shall schedule, supervise and coordinate the operations of all Subcontractors. No subcontracting of any of the Work shall relieve the Contractor its responsibility for the performance of the Work in accordance with the Contract Documents or from its responsibility for the performance of any other of its obligations under the Contract Documents.

## **§ 5.4 Contingent Assignment of Subcontracts**

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

- .1 assignment is effective only after termination of the Contract by the Owner and only for those subcontracts, purchase orders and similar subcontract agreements that the Owner accepts by notifying the Subcontractor and Contractor in writing; and
- .2 assignment is subject to the prior rights of the surety, if any, obligated under bond relating to the Contract.

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

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

**§ 5.4.3** Upon assignment to the Owner under this Section 5.4, the Owner may further assign the subcontract to a successor contractor or other entity. If the Owner assigns the subcontract to a successor contractor or other entity, the

Owner shall nevertheless remain legally responsible for all of the successor contractor's obligations under the subcontract.

## **§ 5.5 Subcontractors as Assignees and Third-Party Beneficiaries**

**§ 5.5.1** Nothing in this Article 5 or elsewhere in the Contract Documents shall be interpreted to (1) constitute an assignment of the Contractor's rights against the Owner to any Subcontractor or (2) make any Subcontractor a third-party beneficiary of the Contract.

## **§ 5.6 SUBCONTRACTOR CLAIMS**

The Contractor shall promptly pay (and secure the discharge of any liens or claims asserted by) all persons properly furnishing labor, equipment, materials or other items in connection with the performance of the Work (including, but not limited, to any Subcontractors). The Contractor shall furnish to the Owner such releases of claims, payment, bond and surety claims, and other documents as required by Section 9.3 and as the Owner may request to evidence such payment and discharge. The Owner, at its option, may withhold payment, in whole or in part, to the Contractor until such documents are furnished.

## **ARTICLE 6 CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS**

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

**§ 6.1.1** The term "Separate Contractor(s)" shall mean other contractors retained by the Owner under separate agreements. The Owner reserves the right to perform construction or operations related to the Project and to furnish materials or equipment for the Project with the Owner's own forces, and with Separate Contractors.

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

**§ 6.1.3** Unless the Owner elects to do so, the Contractor shall provide for coordination of the activities of the Owner's own forces and of each Separate Contractor with the Work of the Contractor. The Owner shall require its own forces and Separate Contractors to cooperate with the Contractor with respect to such coordination. The Contractor shall participate with any Separate Contractors and the Owner in reviewing their construction schedules. The Contractor shall make any revisions to its construction schedule deemed necessary after a joint review and mutual reasonable agreement. The construction schedules so established shall then constitute the schedules to be used by the Contractor, Separate Contractors, and the Owner until subsequently revised.

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

**§ 6.1.5** The cost of any materials or equipment to be provided by the Owner shall not be included in the Contract Sum, and no Contractor Fee (if applicable) shall apply to such cost. The cost of installing such materials or equipment shall be included in the Contract Sum to the extent the Contract Documents require the Contractor to install such materials or equipment as part of the Work. Handling and storage of any such materials or equipment supplied by the Owner and delivered to the site for installation by the Contractor shall be the responsibility of the Contractor.

### **§ 6.2 Mutual Responsibility**

**§ 6.2.1** The Contractor shall afford the Owner and Separate Contractors reasonable opportunity for introduction and storage of their materials and equipment and performance of their activities, and shall connect and coordinate the Contractor's construction and operations with theirs as required by the Contract Documents. If the Contractor receives items from a separate contractor or from the Owner for storage, erection or installation, the Contractor shall acknowledge receipt for items delivered, and thereafter will be held responsible for the care, storage and any necessary replacement of items received.

**§ 6.2.2** If part of the Contractor's Work depends for proper execution or results upon construction or operations by the Owner or a Separate Contractor, the Contractor shall, prior to proceeding with that portion of the Work, promptly notify the Architect and the Owner in writing of apparent discrepancies or defects in the construction or operations by the Owner or Separate Contractor that would render it unsuitable for proper execution and results of the Contractor's

Work. Failure of the Contractor to so notify the Architect and the Owner of apparent discrepancies or defects prior to proceeding with the Work shall constitute an acknowledgment that the Owner's or Separate Contractor's completed or partially completed construction is fit and proper to receive the Contractor's Work. The Contractor shall not be responsible for discrepancies or defects in the construction or operations by the Owner or Separate Contractor that are not actually or readily apparent unless reasonably discoverable.

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

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

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

### § 6.3 Owner's Right to Clean Up

If a dispute arises among the Contractor, Separate Contractors, and the Owner as to the responsibility under their respective contracts for maintaining the premises and surrounding area free from waste materials and rubbish, the Owner may (but shall not be obligated to) clean up and the Architect will allocate the cost among those responsible.

## ARTICLE 7 CHANGES IN THE WORK

### § 7.1 General

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

§ 7.1.2 A Change Order shall be based upon agreement between the Owner and Contractor and at the Owner's discretion the Architect; a Construction Change Directive requires direction by the Owner and at the Owner's discretion the Architect and may or may not be agreed to by the Contractor; an order for a minor change in the Work may be issued by the Architect alone. Change Orders shall be deemed to cover all costs and time impacts associated with the Work change including, but not limited to, all direct and indirect costs, and Contractor shall be entitled to no further compensation or time adjustments related to such Work.

§ 7.1.3 Changes in the Work shall be performed under applicable provisions of the Contract Documents. The Contractor shall proceed promptly with changes in the Work, unless otherwise provided in the Change Order, Construction Change Directive, or order for a minor change in the Work. Before effectuating a change the Contractor shall propose the amount of change in the Contract Sum, if any, and the amount of change in the Contract Time, if any, arising from a proposed change in the work in the form of a Change Order Proposal. The Contractor shall submit its responsible proposal within no longer than seven (7) days after request from Owner or Architect, and shall in good faith specify the components and amounts by which the Contract Sum and/or Contract Time would change. If the Contractor fails to respond within this time or an agreed to extension thereof, the Contractor shall be liable for any delays or costs to other Work associated with accepting or denying the change. The Owner may accept the proposal in writing, in which case the Owner and Contractor are bound to the terms of the proposal, it will be deemed a Change Order, and the Contractor shall commence the change in the Work immediately in accordance with the proposal. The Owner shall include the accepted proposal in the next available formal Change Order. The Owner may reject the proposal, in which case the Owner may either not effectuate the change or may order the change through a Construction Change Directive or an order for a minor change in the Work.

### § 7.2 Change Orders

§ 7.2.1 A Change Order is a written instrument prepared by the Architect, the Owner or Contractor and signed by the Owner, Contractor, and (at the Owner's election) the Architect stating their agreement upon all of the following:

- .1 The change in the Work;
- .2 The amount of the adjustment, if any, in the Contract Sum; and
- .3 The extent of the adjustment, if any, in the Contract Time.

§ 7.2.2 The form of Change Orders shall be AIA Document G701, Change Order, or as approved by the Owner.

**§ 7.2.3** If the Change Order provides for an adjustment to the Contract Sum, the adjustment shall be based on one of the following methods:

- .1 Mutual acceptance of a lump sum properly itemized and supported by sufficient substantiating data to permit evaluation. At a minimum, the Contractor shall submit an itemized breakdown of the cost and/or time required by the Change in the Work, including but not limited to, the following:
  - .a Material quantities and costs.
  - .b Direct labor hours and hourly rates for specific work or operation to be performed.
  - .c Equipment costs or rental charges.
  - .d Specified overhead and profit.
- .2 Unit prices stated in the Contract Documents or subsequently agreed upon; or
- .3 As provided in Section 7.5; or
- .4 Cost to be determined in a manner agreed upon by the parties and a mutually acceptable fixed or percentage fee; or
- .5 As provided in Section 7.3.5.

**§ 7.2.4** Agreement on any Amendment shall constitute a final settlement of all matters relating to the change in the Work that is the subject of the Change Order, including, but not limited to, all direct and indirect costs associated with such change and any and all adjustments to the Contract Sum, the construction schedule, and the Contract Time.

### **§ 7.3 Construction Change Directives**

**§ 7.3.1** A Construction Change Directive is a written order prepared by the Owner or at the Owner's election, the Architect, and signed by the Owner and at the Owner's election, the Architect, directing a change in the Work prior to agreement on adjustment, if any, in the Contract Sum or Contract Time, or both. The Owner may by Construction Change Directive, without invalidating the Contract, order changes in the Work within the general scope of the Contract consisting of additions, deletions, or other revisions, the Contract Sum and Contract Time being adjusted accordingly.

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

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

- .1 Mutual acceptance of a lump sum properly itemized and supported by sufficient substantiating data to permit evaluation;
- .2 Unit prices stated in the Contract Documents or subsequently agreed upon;
- .3 Cost to be determined in a manner agreed upon by the parties and a mutually acceptable fixed or percentage fee; or
- .4 As provided in Section 7.3.4 and 7.5.

**§ 7.3.4** Unit prices are inclusive of all costs for the unit price Work, including but not limited to costs of labor, services, materials, equipment, supervision, insurance, bonds and general conditions, as well as applicable taxes and overhead and profit for that Work. If unit prices are stated in the Contract Documents or subsequently agreed upon, and if quantities originally contemplated are materially changed in a proposed Change Order or Construction Change Directive so that application of such unit prices to quantities of Work proposed will cause substantial inequity to the Owner, the applicable unit prices shall be equitably adjusted.

**§ 7.3.5** If the Contractor does not respond promptly or disagrees with the method for adjustment in the Contract Sum, the Owner shall determine the method and the adjustment on the basis of reasonable cost expenditures and cost savings of those performing the Work attributable to the change, including but not limited to, in case of an increase in the Contract Sum, an amount for overhead and profit as set forth in the Agreement, or if no such amount is set forth in the Agreement, a reasonable amount. In such case, and also under Item .3 of Section 7.3.3, the Contractor shall keep and present, in such form as the Owner may prescribe, an itemized accounting together with appropriate supporting data.

**§ 7.3.5.1** Unless otherwise provided in the Contract Documents, costs for the purposes of this Section 7.3.5, shall be limited to the following, subject to the limitations of Section 7.5:

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

- .2 Costs of materials, supplies and equipment, including cost of transportation, whether incorporated or consumed;
- .3 Rental costs of machinery and equipment, exclusive of hand tools, whether rented from the Contractor or others;
- .4 Costs of premiums for all bonds and insurance, permit fees, and sales, use, or similar taxes, directly related to the change; and
- .5 Additional costs of supervision and field office personnel directly attributable to the change.

§ 7.3.5.2 As to CM/GC contracts only, the terms used in Section 7.3.5.1, including but not limited to Items .1 through .5, shall be subject to the provisions of Articles 4 and 5 of the Agreement.

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

§ 7.3.7 Upon receipt of a Construction Change Directive, the Contractor shall promptly proceed with the change in the Work involved. As soon as possible, but no longer than seven (7) days of receipt, the Contractor shall advise the Owner and the Architect of the Contractor's agreement or disagreement with the cost or the method, if any, provided in the Construction Change Directive for determining the proposed adjustment in the Contract Sum or Contract Time. If the Contractor does not timely disagree with the adjustments, the Construction Change Directive will be deemed an agreed "Change Order". The Contractor's notice shall reasonably specify the reasons for its disagreement and the amount or other terms that it proposes. Without such timely written notice, the Contractor shall conclusively be deemed to have accepted the Owner's adjustment. The Contractor's disagreement shall not relieve the Contractor of its obligation to comply promptly with any written notice issued by the Owner or the Architect. The adjustment shall then be determined by the Owner on the basis of reasonable expenditures and savings of those performing the Work attributable to the change, in strict accordance with this Paragraph and other applicable provisions of the Contract Documents.

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

§ 7.3.9 If the Contractor timely disagrees with the proposed method for adjustment in the Contract Sum and the parties do not otherwise come to terms on adjustment, or if cost is to be determined under Section 7.3.3.3, the Contractor shall keep and present, in such form as the Owner and the Architect may prescribe, an itemized accounting together with appropriate supporting data. In order to facilitate checking of such quotations, all proposals, except those so minor that their propriety can be seen by inspection, shall be accompanied by complete itemization of costs, including labor, materials and subcontract costs. Labor and materials shall be itemized in the manner described in Section 7.5. When cost items in excess of \$2,500 arise from Subcontractors, these items shall also be itemized and presented to the Owner. Approval may not be given without such itemization. Failure to provide data within seven (7) days of the Owner's request or approved extension thereof shall constitute waiver of any Claim for changes in the Contract Time or Contract Sum. The Owner shall have the right to audit and copy the books and records of the Contractor and of any Subcontractor or Supplier of any tier seeking a change in the Contract Sum.

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

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

§ 7.3.12 When the Owner and Contractor agree with a determination made by the Architect concerning the adjustments in the Contract Sum and Contract Time, or otherwise reach agreement upon the adjustments, such



agreement shall be effective immediately and the Architect or Owner will prepare a Change Order. Change Orders may be issued for all or any part of a Construction Change Directive.

**§ 7.3.13** Any adjustment in the Contract Time arising from a Change or a Claim shall be limited to the change in the actual critical path of the progress schedule directly caused thereby.

#### **§ 7.4 Minor Changes in the Work**

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

#### **§ 7.5 PRICING COMPONENTS**

**§ 7.5.1** The total cost of any changed Work or of any other increase or decrease in the Contract Sum, including a Claim, shall be limited to the following components:

- .1 Basic wages: The hourly wage (without markup, fringe benefits or labor burden) not to exceed that specified in the applicable "Prevailing Wage Publication" for the laborers, apprentices, journeymen, and foremen performing and/or directly supervising the changed Work on the site. The premium portion of overtime wages is not included unless pre-approved by the Owner.
- .2 Fringe benefits: Fringe benefits paid by the Contractor as established by the Oregon Bureau of Labor and Industries or contributed to labor trust funds as itemized fringe benefits, whichever is applicable. Costs paid or incurred by the Contractor for vacations, per diem, bonuses, stock options, or discretionary payments to employees are not reimbursable.
- .3 Workers' insurances: Direct contributions to the State of Oregon as industrial insurance; medical aid; and supplemental pension by class and rates established by the Oregon Bureau of Labor and Industries.
- .4 Federal insurances: Direct contributions required by the Federal Insurance Compensation Act (FICA); Federal Unemployment Tax Act (FUTA); and State Unemployment Compensation Act (SUCA).

**§ 7.5.2** Direct material costs: This is an itemization, including material invoice, of the quantity and cost of additional materials reasonable and necessary to perform the change in the Work. The unit cost shall be based upon the net cost after all discounts or rebates, freight costs, express charges, or special delivery costs, when applicable. No lump sum costs will be allowed except when approved in advance by the Architect. Discounts and rebates based on prompt payment shall be included.

**§ 7.5.3** Construction equipment usage costs: This is an itemization of the actual length of time that construction equipment appropriate for the Work will be used solely on the change in the Work at the site times the applicable rental cost as established by the lower of the local prevailing rate published in The Rental Rate Blue Book by Data Quest, San Jose, California, or the actual rate paid to an unrelated third party as evidenced by rental receipts. Actual, reasonable mobilization costs are permitted if the equipment is brought to the Site solely for the change in the Work. If equipment is required for which a rental rate is not established by The Rental Rate Blue Book, an agreed rental rate shall be established for the equipment, which rate and use must be approved by the Architect prior to performing the work. If more than one rate is applicable, the lowest rate will be utilized. The rates in effect at the time of the performance of the changed Work are the maximum rates allowable for equipment of modern design and in good working condition and include full compensation for furnishing all fuel, oil, lubrication, repairs, maintenance, and insurance. Equipment not of modern design and/or not in good working condition will have lower rates. Hourly, weekly, and/or monthly rates, as appropriate, will be applied to yield the lowest total cost. The rate for equipment necessarily standing by for future use on the changed Work shall be 50% of the rate established above. The total cost of rental allowed shall not exceed the cost of purchasing the equipment outright.

**§ 7.5.4** Cost of change in insurance or bond premium. This is defined as:

- .1 Contractors' liability insurance: The cost (expressed as a percentage) of any changes in the Contractor's liability insurance arising directly from the changed Work; and
- .2 Payment and performance bond: The cost (expressed as a percentage) of the change in the Contractor's premium for the Contractor's bond arising directly from the changed Work.

Upon request, the Contractor shall provide the Owner with supporting documentation from its insurer or surety of any associated cost incurred.

**§ 7.5.5** Subcontractor costs: These are payments the Contractor makes to Subcontractors for changed Work performed by Subcontractors. The Subcontractors' cost of changed Work shall be determined as the lesser of the manner stated in their Subcontract, or in the manner as prescribed in this Section 7.5 (and, if this is a CM/GC contract, as further limited pursuant to Sections 4 and 5 of the A133 Agreement). Payments to subcontractors or suppliers that are affiliates of Contractor for change work shall not exceed market rates for the services provided.

**§ 7.5.6** Fee: This is the allowance for all combined overhead, profit and other costs, including all office, home office and site overhead (including project manager, project engineers, project foreman, estimator, superintendent and their vehicles), taxes (except for sales tax), warranty, safety costs, quality control/assurance, purchasing, small or hand tool or expendable charges, preparation of as-built drawings, impact on unchanged Work, Claim preparation, and delay and impact costs of any kind, added to the total cost to the Owner of any Change Order, Construction Change Directive, Claim or any other claim of any kind on this Project. The total aggregate amount of Fee allowed on Work performed by Contractor's own forces shall be limited to Contractor's original Fee percentage of the allowed costs of the change in the Work, but not more than 10% of the allowed costs of the change in the Work. The Contractor also shall receive the Fee identified in clause (2) below (or if less, Contractor's original fee percentage not exceeding 5%) on the amount owed directly to a Subcontractor or Supplier for materials supplied or work properly performed by that Subcontractor or Supplier.

- .1 The Contractor shall receive as Overhead and Profit its Fee percentage of the cost of any materials or work performed by the Contractor's or its Affiliates' own forces or that labor performed or materials supplied by subcontractors; provided total Contractor Overhead and Profit charges cumulatively at all tiers shall not exceed 20%.
- .2 Each Subcontractor at any tier (including lower tier subcontractor involved, but excluding an Affiliates of Contractor) shall receive a maximum of 10% of the cost of any materials or work directly performed by its own forces, and a maximum of 5% of the cost of any materials and labor performed by its sub-tier subcontractors.

If a change in the Work involves both additive and deductive items, the appropriate net Fee allowed will be added to the net positive difference of the items. If the net difference is negative, net negative Fee will be included in the negative figure as a further deduction. .

**§ 7.5.7** The total cost of any change, including a Claim under Article 15, shall be limited to the reasonable value, as determined by the Owner (subject to appeal through the dispute resolution procedure of Article 15), of the items in this Section 7.5. Unless otherwise agreed in writing by the Owner, the cost shall not exceed the lower of the prevailing cost of the work in the locality of the Project or the cost of the work in the current editions of R.S. Means Company, Inc. Building Construction cost Data as adjusted to local costs and conditions. The Owner or Architect may confer directly with Subcontractors or Suppliers of any tier concerning any item chargeable to the Owner under this Article to confirm balances due and to obtain statements or lien waivers.

## **§ 7.6 CHANGE PROPOSALS**

Within the time limits set out in this Section 7.6, after receipt of a Request For Change Order Proposal or a Construction Change Directive, the Contractor shall submit to the Owner and the Architect a written Change Order Proposal setting out any proposed adjustment in the Contract Sum or Contract Time, or both, to which the Contractor believes it (1) would be entitled as a result of the change in the Work proposed in the Request For Change Order Proposal or (2) is entitled as a result of the change in the Work directed by the Construction Change Directive. Such Change Order Proposal may be in the form of a lump sum proposal (with adequate cost substantiation as required by the Owner and calculations showing the amount of markups on costs), or a unit price proposal, or a combination thereof, for a proposed increase in the Contract Sum, and in similar form for a proposed extension of the Contract

Time, and otherwise shall be in such form and in such detail as the Owner or the Architect may require. Such Change Order Proposal shall be submitted as soon as practicable after the Contractor's receipt of the Request For Change Order Proposal or the Construction Change Directive, but in no event later than thirty (30) days after the Contractor's receipt of the Request For Change Order Proposal or the Construction Change Directive.

§ 7.7 Contractor shall not be entitled to a Change Order for any change in the Work unless a Change Order has been signed by the Owner, a Construction Change Directive has been issued, a Change Proposal has been approved by the Owner in writing, or a similar written Authorization has been issued by the Owner, prior to initiation of such Work.

## **ARTICLE 8 TIME**

### **§ 8.1 Definitions**

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

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

§ 8.1.3 The date of Substantial Completion is the date satisfying the requirements of the Architect in Section 9.8.

§ 8.1.4 The date of Final Completion is the date satisfying the requirements of the Architect in Section 9.10.

§ 8.1.5 The term "day" as used in the Contract Documents shall mean calendar day unless otherwise specifically defined. The term "working day" shall mean any calendar day except Saturdays, Sundays, and Legal Holidays at the place of building.

### **§ 8.2 Progress and Completion**

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

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

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

### **§ 8.3 Delays and Extensions of Time**

§ 8.3.1 If the Contractor is delayed at any time in the commencement or progress of the Work by (1) an act or neglect of the Owner or the Architect, of an employee of either, or of a Separate Contractor; (2) by changes ordered in the Work; (3) by labor disputes, not caused or contributed to by Contractor, Subcontractors, or any person or entity for whose acts or omissions any of them are responsible, fire, unusual delay in deliveries beyond the Contractor's reasonable control, unavoidable casualties, adverse weather conditions documented in accordance with Section 15.1.6.2, or other causes not reasonably foreseeable on the date the Work commenced and which are beyond the Contractor's control and not caused by the acts or omissions of Contractor or any Subcontractor or Sub-subcontractor; or (4) by delay authorized by the Owner pending mediation and binding dispute resolution; or (5) by other causes that the Owner determines may justify delay, then the Contract Time shall be extended by Change Order for such reasonable time as the Owner may determine. The Contractor shall be required to use best efforts to mitigate both the necessity of the delay and the period of the delay. Extension shall not exceed the change in the actual critical path of the Contractor's Construction Schedule directly caused thereby, but in no circumstance more than a day for day increase due to the number of days of legitimate occurrence as defined above, as the Owner may determine consistent with the provisions of the Contract Documents.

§ 8.3.1.1 No extensions of the Contract Time shall be allowed for delays or suspensions to the extent caused by the negligent or other wrongful acts or omissions of the Contractor, Subcontractors, or anyone for whose acts or omissions any of them are responsible, or by the failure of such persons or entities to perform as required by the Contract.

§ 8.3.1.2 Any such extension of the Contract Time shall be net of any contingency, weather delay, or "float" time allowance included in the Contractor's construction schedule. If more than one event causes concurrent delays, and the cause of at least one of those events is a cause of delay that would not entitle the Contractor to an extension of time, then to the extent of such concurrency, the Contractor shall not be entitled to an extension of time.



**§ 8.3.2** All claims for extension of time shall be made in writing to the Owner no more than seven (7) days after the commencement of the delay; otherwise they shall be deemed waived and barred. The Contractor shall provide an estimate of the probable effect of such delay on the progress of the Work and shall notify the Owner within ten (10) days after the event causing the delay has ceased. Claims relating to time otherwise shall be made in accordance with applicable provisions of Article 15. The Owner's or Architect's awareness of the occurrence of the delay through means other than the Contractor's written notification shall not constitute a waiver of a timely or written notice or Claim.

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

**§ 8.3.4** When the Contract Time has been extended (i) such extension of time shall be the Contractor's sole remedy for such delay, and the Contractor shall not be entitled to any delay, equitable adjustment or impact damages or other increase in compensation due to such extension, and (ii) the Contractor agrees to make no monetary claim under any legal theory for delay, interference or hindrance of any kind in the performance of this Contract for any reason, and (iii) agrees that any such claim shall be fully compensated for by an extension of time to complete performance of the Work. This Section 8.3.4 shall not apply to the extent of unreasonable delay occasioned by any act or omission of the Owner or anyone acting by or through the Owner.

**§ 8.3.5** To the fullest extent allowed by law, the Contractor may recover an increase in the Contract Sum or Contract Time from the Owner for the Owner-directed changes only if the actions or inactions of the Owner or persons acting therefor were the actual cause of the delay. The Contractor shall not be entitled to an equitable adjustment or an increase in the Contract Sum or Contract Time from the Owner where the Contractor could have reasonably avoided the delay by the exercise of due diligence.

**§ 8.3.6** In addition to the other limits stated in Section 8.3, to the fullest extent allowed by law, the Contractor shall not in any event be entitled to damages arising out of actual or alleged loss of efficiency; morale, fatigue, altitude, or labor rhythm; constructive acceleration; home office overhead; expectant underrun; trade stacking; reassignment of workers; concurrent operations; dilution of supervision; learning curve; beneficial or joint occupancy; logistics; ripple; season change; extended overhead; profit upon damages for delay; impact damages; or similar theories of damages.

## **ARTICLE 9 PAYMENTS AND COMPLETION**

### **§ 9.1 Contract Sum**

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

### **§ 9.2 Schedule of Values**

Where the Contract is based on a stipulated sum or Guaranteed Maximum Price, the Contractor shall submit a schedule of values to the Architect before the first Application for Payment, allocating the entire Contract Sum to the various portions of the Work. The schedule of values shall be prepared in the form, and supported by the data to substantiate its accuracy, required by the Architect or the Owner. If a schedule of values is attached as an exhibit to this Contract, it shall be considered the schedule of values for the purposes of this Contract. This schedule, unless objected to by the Owner or the Architect, shall be used as a basis for reviewing the Contractor's Applications for Payment. Any changes to the schedule of values shall be submitted to the Architect and the Owner and supported by such data to substantiate its accuracy as the Architect or the Owner may require, and unless objected to by the Architect or the Owner, shall be used as a basis for reviewing the Contractor's subsequent Applications for Payment.

### **§ 9.3 Applications for Payment**

**§ 9.3.1** Progress payments will be made monthly for work duly certified, approved, and performed during the calendar month preceding the application. At least the number of days before the date established for each progress payment established in this Agreement, The Contractor shall submit to the Architect an itemized Application for Payment prepared in accordance with the schedule of values, as required under Section 9.2, for completed portions of the Work. The application shall be notarized, if required, and supported by all data substantiating the Contractor's right to payment that the Owner or the Architect require, such as copies of requisitions, and releases and waivers from Contractor, Subcontractors and suppliers in the form of Exhibit B, and shall reflect retainage if provided for in the Contract Documents.

§ 9.3.1.1 Draft Application: On or about the 25th of each month, the Contractor shall submit to the Architect and the Owner, a report on the current progress of the Work as compared to the Contractor's Construction Schedule, and a draft, itemized Application for Payment for work performed during the prior calendar month. This draft shall not constitute a payment request or formal Application for Payment. The Contractor, the Owner, and the Architect shall confer regarding the current progress of the Work and the amount of payment to which the Contractor is entitled. The Owner or the Architect may request the Contractor to provide data substantiating the Contractor's right to payment, such as copies of requisitions from Subcontractors, and reflecting retainage as provided elsewhere in the Contract Documents. The Contractor shall not be entitled to make a payment request, nor is any payment due the Contractor, until such data is furnished. THE SUBMISSION OF THIS APPLICATION CONSTITUTES A CERTIFICATION THAT THE WORK IS CURRENT ON THE CONTRACTOR'S CONSTRUCTION SCHEDULE, unless otherwise noted on the application.

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

§ 9.3.1.3 Applications for Payment shall not include requests for payment for portions of the Work for which the Contractor does not intend to pay a Subcontractor or supplier, unless such Work has been performed by others whom the Contractor intends to pay. An Application for Payment request shall not be valid unless it complies with the requirements of the Contract Documents.

§ 9.3.1.4 The form of Application for Payment shall be a notarized AIA Document G702, Application and Certification For Payment, supported by AIA Document G703, Continuation Sheet.

§ 9.3.1.5 Each Application for Payment shall be accompanied by the following, all in form and substance satisfactory to the Architect and the Owner:

- .1 Duly executed lien and claim waivers in the forms attached as Exhibit B to the Agreement, executed acknowledged, and sworn by the Contractor, showing: all first-tier Subcontractors with whom the Contractor has entered into subcontracts, the amount of each such subcontract, the amount requested for payment to each such first-tier Subcontractor, and the amounts to be paid to and retained by the Contractor from such progress payment. The waiver and release forms submitted by the Contractor shall be conditional as to the payment sought by the current Application for Payment and shall be unconditional as to the payment received pursuant to the prior Application for Payment.
- .2 Duly executed lien and claim waivers in the forms attached as Exhibit B to the Agreement executed acknowledged, and sworn by all first-tier Subcontractors (and any Sub-subcontractors as required by the Owner) showing: all lower-tier Subcontractors with whom the first-tier Subcontractor has entered into subcontracts, the amount of each such subcontract, the amount requested for payment to each such lower-tier Subcontractor, and the amounts to be paid to and retained by the first-tier Subcontractor from such progress payment. The lien and claim waiver forms submitted by first-tier Subcontractors shall be conditional as to the payment sought by the current Application for Payment and shall be unconditional as to the payment received pursuant to the prior Application for Payment.

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

§ 9.3.3 The Contractor warrants that title to all Work covered by an Application for Payment will pass to the Owner no later than upon physical incorporation into the construction at the site or the time of payment, whichever occurs first. The Contractor further warrants that upon submittal of an Application for Payment all Work for which Applications for payment or Certificates for Payment have been previously issued and payments received from the Owner shall, to the best of the Contractor's knowledge, information, and belief, be free and clear of liens, claims, security interests, or

encumbrances, in favor of the Contractor, Subcontractors, suppliers, or other persons or entities that provided labor, materials, and equipment relating to the Work.

## **§ 9.4 Certificates for Payment**

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

**§ 9.4.2** The issuance of a Certificate for Payment will constitute a representation by the Architect to the Owner, based on the Architect's evaluation of the Work and the data in the Application for Payment, that, to the best of the Architect's knowledge, information, and belief, the Work has progressed to the point indicated, the quality of the Work is in accordance with the Contract Documents, and that the Contractor is entitled to payment in the amount certified. The foregoing representations are subject to an evaluation of the Work for conformance with the Contract Documents upon Substantial Completion, to results of subsequent tests and inspections, to correction of minor deviations from the Contract Documents prior to completion, and to specific qualifications expressed by the Architect. The issuance of a Certificate for Payment will not be a representation that the Architect has (1) made exhaustive or continuous on-site inspections to check the quality or quantity of the Work; (2) reviewed construction means, methods, techniques, sequences, or procedures; (3) reviewed copies of requisitions received from Subcontractors and suppliers and other data requested by the Owner to substantiate the Contractor's right to payment; or (4) made examination to ascertain how or for what purpose the Contractor has used money previously paid on account of the Contract Sum. Furthermore, the issuance of a Certificate for Payment will not excuse Contractor from (1) defects in the quality or quantity of the Work, (2) Contractor's responsibility for construction means, methods, techniques, sequences or procedures, (3) deficiencies in requisitions received from Subcontractors and material suppliers and other data requested by the Owner to substantiate the Contractor's right to payment, (4) Contractor's duty to properly use money previously paid on account of the Contract Sum or (5) any other obligation of Contractor under the Contract Documents.

## **§ 9.5 Decisions to Withhold Certification**

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

- .1 defective or nonconforming Work not remedied; 150% of the estimated value of such defective Work may be withheld;
- .2 third party claims, including but not limited to construction lien claims and bond claims, filed or reasonable evidence indicating probable filing of such claims, unless security acceptable to the Owner is provided by the Contractor;
- .3 failure of the Contractor to make payments properly to Subcontractors or suppliers for labor, services, materials or equipment;
- .4 reasonable evidence that the Work cannot be completed for the unpaid balance of the Contract Sum;
- .5 damage to the Owner or a Separate Contractor or third party;
- .6 reasonable evidence that the Work will not be completed within the Contract Time, or that the unpaid balance would not be adequate to cover actual or liquidated damages for the anticipated delay;
- .7 unsatisfactory prosecution of the Work by the Contractor, including but not limited to failure to carry out the Work in accordance with the Contract Documents;
- .8 delay by the Contractor and/or its Subcontractor(s), or failure to comply with the Contractor's Construction Schedule requirements;
- .9 failure of the Contractor to submit updates of the Contractor's construction schedule as required by Section 3.10.1.1;
- .10 failure to submit affidavits pertaining to wages paid as required by statute;

- .11 failure of the Contractor to provide satisfactions of claims of mechanics', material suppliers', design professionals', construction or similar liens;
- .12 failure to comply with a requirement of the Contract Documents in which the Owner has reserved the right to withhold payment;
- .13 failure of the Contractor to provide waivers and releases from the Contractor and Subcontractors;
- .14 liquidated damages; or
- .15 any other grounds for withholding under this Contract or at law.

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

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

§ 9.5.4 If the Architect withholds certification for payment under Section 9.5.1.3, the Owner may, at its sole option, issue joint checks to the Contractor and to any Subcontractor or supplier to whom the Contractor failed to make payment for Work properly performed or material or equipment suitably delivered. If the Owner makes payments by joint check, the Owner shall notify the Architect and the Architect will reflect the payment in its records. Such payment will not relieve the Contractor or its surety. Contractor shall reflect such payment on its next Application for Payment.

§ 9.5.5 The Owner will have the same rights of withholding as the Architect, under Section 9.5.1, regardless of whether the Architect withholds.

§ 9.5.4 To the fullest extent allowed by law, Contractor shall have no right to stop the Work if Contractor timely is paid for all undisputed invoices, and if so paid, Contractor shall proceed with the performance of its obligations hereunder with reservation of all rights and remedies it may have at law or in equity with respect to disputed invoices.

## § 9.6 Progress Payments

§ 9.6.1 After the Architect has issued and the Owner has approved a Certificate for Payment, the Owner shall make payment in the manner and within the time provided in the Contract Documents, absent any material breaches by Contractor and/or the Owner's good-faith belief that a withholding of payment is necessary to protect the Owner from Contractor's failure to perform its obligations hereunder.

§ 9.6.2 The Contractor shall pay each Subcontractor, no later than seven (7) days after receipt of payment from the Owner, the amount to which the Subcontractor is entitled, reflecting percentages actually retained from payments to the Contractor on account of the Subcontractor's portion of the Work. The Contractor shall, by appropriate agreement with each Subcontractor, require each Subcontractor to make payments to Sub-subcontractors in a similar manner. If the Contractor does not receive payment for any cause which is not the fault of a particular subcontractor, but does receive payment for work done by the particular subcontractor, the Contractor shall pay that subcontractor on demand, made at any time after which such payment to the Contractor would have been made, for its satisfactorily completed work of such subcontractor, less the retained percentage.

§ 9.6.2.1 Should the Contractor withhold payment from a first-tier Subcontractor due to a bona fide dispute, the Contractor shall notify the Owner. The Owner may then withhold such funds from the Contractor until the dispute is resolved; provided that this Section 9.6.2.1 shall not be construed or applied to prevent the Contractor from receiving payment from the Owner for Work performed by the Contractor or by another Subcontractor when such Work is the subject of a back-charge by the Contractor against the Subcontractor involved in the bona fide dispute. In accordance with ORS Chapter 279C, unless payment is subject to a good-faith dispute as defined in ORS Chapter 279C, if Contractor or any first-tier Subcontractor fails, neglects, or refuses to make payment to person or entity furnishing labor or materials for this Project within thirty (30) days after receipt of payment from the Owner, the Contractor or first-tier Subcontractor shall owe the person or entity the amount due plus interest charges commencing at end of ten (10) day period that payment is due, unless payment is subject to good faith dispute as defined in ORS Chapter 279C. The rate of interest charged shall be equal to three (3) times the discount rate on ninety (90) day commercial paper in effect at Federal Reserve Bank on the date thirty (30) days after date payment was received from the Owner, but the rate of interest shall not exceed thirty percent (30%). The amount of interest may not be waived. Additionally, if Contractor or any Subcontractor fails, neglects, or refuses to pay person or entity furnishing labor or material for the Project, the person or entity may file a complaint with the Construction Contractors Board, unless payment is subject to a



good-faith dispute as defined in ORS Chapter 279C. The payment of a claim in the manner authorized in this section shall not relieve the Contractor or the Contractor's surety from obligation with respect to any unpaid claims.

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

**§ 9.6.4** The Owner has the right to request written evidence from the Contractor that the Contractor has properly paid Subcontractors and suppliers amounts paid by the Owner to the Contractor for subcontracted Work. If the Contractor fails to furnish such evidence within seven (7) days, the Owner shall have the right to contact Subcontractors and suppliers to ascertain whether they have been properly paid. Neither the Owner nor the Architect shall have an obligation to pay, or to see to the payment of money to, a Subcontractor or supplier, except as may otherwise be required by law.

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

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

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

**§ 9.6.8** Upon reasonable evidence of the unjustified nonpayment of one or more Subcontractors by the Contractor, the Owner may, after giving ten (10) days' notice and opportunity to cure to the Contractor, make payment of amounts due to Subcontractors by direct payments or by means of multiple-payee checks. Upon request of the Owner, the Contractor shall timely furnish to the Owner such information as the Owner reasonably will need to make such direct or multiple-payee check payments, including but not limited to the names and addresses of the first-tier Subcontractor payees and the amounts due to each.

**§ 9.6.9** The Contractor shall defend and indemnify the Owner from all loss, liability, damage or expense, including reasonable attorney's fees and litigation expenses, arising out of any lien claim or other claim for payment by any Subcontractor or Supplier of any tier. Upon receipt of notice of a lien claim or other claim for payment, the Owner may notify the Contractor. Should any Subcontractor, Supplier or other person make, record or file, or maintain any action on or respecting a claim of construction lien, mechanic's lien, stop notice or lis pendens, relating to the Work, then the Contractor shall immediately and at its sole expense cause the same to be removed, extinguished and expunged.

## **§ 9.7 Failure of Payment**

If the Architect does not issue a Certificate for Payment, through no fault of the Contractor, Subcontractors, or anyone else for whose acts or omissions any of them are responsible, within ten (10) days after receipt of the Contractor's Application for Payment, or if the Owner does not pay the Contractor the required undisputed amount within the earlier of 30 days after receipt of the properly submitted Application for Payment and supporting documents from the Contractor or 15 days after the payment is approved by the Owner the amount certified by the Architect or awarded by binding dispute resolution, then the Contractor may, upon fourteen (14) additional days' written notice to the Owner and the Architect, stop the Work until payment of the amount owing has been received. The Contract Time shall be extended appropriately and the Contract Sum shall be increased by the amount of the Contractor's reasonable costs of shutdown, delay and start-up, plus interest as provided for in the Contract Documents. Contractor shall have no right to stop or suspend the Work, withhold services or Work, or terminate this Agreement if Contractor timely is paid all undisputed amounts after applicable withholdings, and if so paid, Contractor shall proceed with the performance of its obligations hereunder with reservation of rights, but subject to the other terms of this Agreement regarding assertion of Claims.

## § 9.8 Substantial Completion

§ 9.8.1 Substantial Completion is the latest of (a) the stage in the progress of the Work when the Work or designated portion thereof that the Owner agrees to accept separately is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use, including without limitation issuance of a certificate of occupancy or passage of any necessary governmental inspection; or (b) the date of the Owner's receipt of the Certificate of Substantial Completion from the Architect. The Work will be considered not Substantially Complete if the Owner determines that appropriate cleaning has not occurred. The only remaining Work after Substantial Completion shall be minor in nature, so that the Owner could occupy the Project on that date and the completion of the Work by the Contractor would not interfere with or hamper the Owner's or its occupants' normal operations. Without limitation, no building or facility will be considered to have reached Substantial Completion unless all utilities and systems (mechanical, electrical, etc.) are connected, commissioned, and operating as required for normal use including balancing of the HVAC system, any receiving area and areas for loading and unloading are completed, the Contractor has completed all of the building systems training procedures with the Owner and the building or facility is accessible by normal vehicular and pedestrian traffic routes. The fact that the Owner may occupy the Work or designated portion thereof alone does not indicate that the Work is Substantially Complete or is acceptable in whole or in part, nor does such occupation toll or change liquidated damages owed to the Owner and the Owner can perform "move-in" activities without interruption or risk of damages to people or property.

§ 9.8.1.1 For Substantial Completion of the Work or designated portion thereof to be achieved, the Owner also must have received a temporary or final certificate of occupancy (if necessary for occupancy) and all other governmental approvals necessary and required for the Owner to occupy or utilize the Work or designated portion for its intended purpose.

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

§ 9.8.3 Upon receipt of the Contractor's punch list, the Owner, Contractor and the Architect will jointly make an inspection to determine whether the Work or designated portion thereof the Owner agrees to accept separately, is substantially complete. If the Owner's and the Architect's inspection discloses any item, whether or not included on the Contractor's punch list, which is not sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work or designated portion thereof for its intended use, the Contractor shall, before issuance of the Certificate of Substantial Completion, complete or correct such item upon notification by the Architect. In such case, the Contractor shall then submit a request for another inspection by the Owner, Contractor and the Architect to determine Substantial Completion. In the event the Architect is required to make more than two (2) observations to determine Substantial Completion because of the Contractor's fault, the Contractor shall reimburse the Owner for compensation for the Architect's services and expenses incurred in conducting the third (3<sup>rd</sup>) and subsequent such observations. If upon observation of the Work or designated portion thereof pursuant to this Section 9.8.3 there is not agreement between or among the Owner, Contractor and the Architect as to whether Substantial Completion has been achieved, the stage of the progress of the Work shall be determined by decision of the Architect.

§ 9.8.4 When the Work or designated portion thereof, which the Owner agrees to accept separately, is substantially complete, the Architect will prepare a Certificate of Substantial Completion that shall establish the date of Substantial Completion; establish responsibilities of the Owner and Contractor for security, maintenance, heat, utilities, damage to the Work and insurance; and fix the time within which the Contractor shall finish all items on the punch list accompanying the Certificate. Warranties required by the Contract Documents shall commence on the date of Substantial Completion of the Work or designated portion thereof unless otherwise provided in the Certificate of Substantial Completion. With respect to components or portions of the Work for which Substantial Completion is achieved after the date of Substantial Completion of the Work as a whole, such warranties shall commence on the dates of Substantial Completion of such components or portions.

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

§ 9.8.6 Commissioning of Critical Systems: The following systems of the Work, and any other systems designated in the Contract Documents, are considered "Critical Systems":

- .1 HVAC system;
- .2 Electrical system;
- .3 Data communication system(s);
- .4 Intercom system, the life safety system(s);
- .5 Security system.

When the Contractor considers that the Critical Systems are up and running and ready for normal operation as specified for each phase, the Contractor shall so notify the Architect and Owner in writing a minimum of 14 days prior to the Date of Substantial Completion for that portion or phase as fixed in the Contract Documents. The Architect will then schedule a pre-commissioning inspection of these systems to determine whether the Critical Systems are complete and ready for normal operation. If the Architect's or Owner's inspection discloses that the Critical Systems are not Substantially Complete or that any item is not in accordance with the requirements of the Contract Documents, the Contractor shall expeditiously, and before the Date of Substantial Completion, complete or correct such item upon notification by the Architect. The Contractor shall then submit a request for another inspection by the Architect to determine completion of the Critical Systems and pay the costs associated with the re-inspections, including fees of the Architect and its consultants. When the Critical Systems are ready for operation, the Architect will notify the Owner in writing, which shall establish the Date of Commissioning. Warranties on the Critical Systems required by the Contract Documents shall commence on the later of the Date of Commissioning or Date of Substantial Completion, unless otherwise provided in the Contract Documents. The Date of Commissioning shall not have an effect on the duties of the parties at Substantial Completion.

#### **§ 9.9 Partial Occupancy or Use**

**§ 9.9.1** The Owner may upon written notice to the Contractor, take possession of, occupy or use any completed or partially completed portion of the Work at any stage and time, when it is legal to do so. Unless otherwise agreed in writing, such possession, use or operation shall not be deemed an acceptance of any portion of the Work, nor accelerate the time for any payment to the Contractor under the Contract, nor prejudice any rights of the Owner under the Contract or under any insurance, bond, guaranty or other requirement of the Contract, nor relieve the Contractor of any of its obligations under the Contract. If the Contractor fails to complete the Work within the Contract Time, the Owner may take possession of, use or operate all or any part of the Work without an increase in the Contract Sum.

**§ 9.9.2** Immediately prior to such partial occupancy or use, the Owner, Contractor, and the Architect shall jointly inspect the area to be occupied or portion of the Work to be used in order to determine and record the condition of the Work. A reasonable sum may be withheld by Owner until Contractor delivers to Owner record Drawings, Specifications, Addenda, Change Orders and other Modifications, and the warranties, instructions, and maintenance manuals required by the Specifications, and a final statement of the cost of the Work allocated in accordance with the budget and in a form approved by Owner.

**§ 9.9.3** Unless otherwise agreed upon in writing by the Owner, partial occupancy or use of a portion or portions of the Work shall not constitute acceptance of Work not complying with the requirements of the Contract Documents, nor start the period for correction of Work mentioned in Section 12.2.2, nor establish Substantial Completion of the portion of the Work, nor accelerate the time for any payment to the Contractor under the Contract, nor prejudice any rights of the Owner under the Contract or under any insurance, bond, guaranty or other requirement of the Contract, nor relieve the Contractor of any of its obligations under the Contract.

#### **§ 9.10 Final Completion and Final Payment**

**§ 9.10.1** Upon receipt of the Contractor's notice that the Work is ready for final inspection and acceptance and upon receipt of a final Application for Payment, the Owner, Contractor and the Architect will jointly and promptly make such inspection. When the Owner and the Architect find the Work acceptable under the Contract Documents and the Contract fully performed, the Architect will promptly issue a final Certificate for Payment stating that to the best of the Architect's knowledge, information and belief, and on the basis of the Architect's on-site visits and inspections, the Work has been completed in accordance with the Contract Documents and that the entire balance found to be due the Contractor and noted in the final Certificate is due and payable. In the event the Architect is required to make more than two (2) observations to determine Final Completion, the contractor shall reimburse the Owner for compensation for the Architect's services and expenses incurred in conducting the third (3<sup>rd</sup>) and subsequent such observations. The Architect's final Certificate for Payment will constitute a further representation that conditions listed in Section 9.10.2 as precedent to the Contractor's being entitled to final payment have been fulfilled. The Contractor is liable for, and the Owner may deduct from any amounts due the Contractor, all fees and expenses incurred by the Owner for services

performed after the required Final Completion date of all the Work due to the delay of the Contractor, whether or not those services would have been performed prior to that date had Final Completion been achieved in a timely manner.

**§ 9.10.1.1** The term “Final Completion” as used in the Contract Documents shall mean that (1) Substantial Completion of the Work or designated portion thereof has been achieved and the punch list work completed, (2) the Owner has received a final certificate of occupancy and all other governmental approvals as necessary and required for the Owner to occupy or utilize the Work for its intended purpose and (3) the Contractor has performed all of its obligations under the Contract except for those obligations that, by their nature, extend beyond Final Completion.

**§ 9.10.2** Neither final payment nor any remaining retained percentage shall become due until the Contractor submits to the Architect and the Owner (1) an affidavit that payrolls, bills for materials and equipment, and other indebtedness connected with the Work for which the Owner or the Owner’s property might be responsible or encumbered (less amounts withheld by the Owner) have been paid or otherwise satisfied; (2) a certificate evidencing that insurance required by the Contract Documents to remain in force after final payment is currently in effect and will not be canceled or allowed to expire until at least thirty (30) days’ prior written notice has been given to the Owner; (3) a written statement that the Contractor knows of no reason that the insurance will not be renewable to cover the period required by the Contract Documents; (4) consent of surety, if any, to final payment; (5) if required by the Owner, other data establishing payment or satisfaction of obligations, such as receipts and releases and waivers of liens, claims, security interests, or encumbrances arising out of the Contract, to the extent and in such form as may be designated by the Owner; (6) all warranties, guarantees, manuals, operation instructions, certificates, spare parts, maintenance stock, specified excess material, as-built drawings and other documents or items required by the Contract Documents; (7) originals of all permits, licenses and certificates, together with a certified statement that the Contractor has closed all necessary permits or otherwise met the requirements of all governing jurisdictions related to this project, including but not limited to all city or county departments, health departments and utility owners, provided to Owner with a copy of all closed or signed off permits; (8) proof satisfactory to Owner that the Contractor has fully complied with the requirements of ORS 279C.845(7); (9) if the Contractor is not domiciled in or registered to do business in the State of Oregon, confirmation the Contractor has complied with the requirements of ORS 279A.120.2; (10) as-built Drawings in CAD format acceptable to the Owner to the extent required by the Specifications or this Agreement; and (11) all other documents and items required by the Contract Documents to be provided as a condition of achieving Final Completion. If a Subcontractor refuses to furnish a release or waiver required by the Owner, the Owner may (1) retain funds in such amount as to defray the cost of foreclosing the liens of such claims and to pay attorneys’ fees, the total of which shall be no less than 150% of the claimed amount; or (2) accept from the Contractor, a bond or other security satisfactory to the Owner, in its sole discretion, to indemnify the Owner against such lien, claim, security interest, or encumbrance. If a lien, claim, security interest, or encumbrance remains unsatisfied after payments are made, the Contractor shall refund to the Owner all money that the Owner may be compelled to pay in discharging the lien, claim, security interest, or encumbrance, including but not limited to all costs, disbursements, expenses and reasonable attorneys’ fees.

**§ 9.10.2.1** In addition to other documentation required by the Architect and the Owner as a condition of final payment, the application for final payment shall be accompanied by final waivers and releases of claims, executed by the Contractor and Subcontractors. The forms of the waivers and releases shall be as set out in Exhibit B.

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

**§ 9.10.3.1** If the Owner elects to make such payment in advance of Final Completion, the Owner may retain an amount no less than one hundred fifty percent (150%) of the value of such Work for the Contractor to finally complete the Work, as determined by the Architect.

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



final Application for Payment. The execution of a Change Order shall constitute a waiver of Claims by the Contractor arising out of the work to be performed or deleted pursuant to the Change Order, except as specifically described in the Change Order. General reservations of rights will be deemed waived and void.

#### **§ 9.11 Records**

The Contractor shall maintain books, records, documents, and other evidence pertaining to the costs incurred by the Contractor in connection with or related to the Contract (“records”) to such extent and in such detail as will properly reflect and fully support all costs, charges and other amounts of whatever nature for which reimbursement or payment is or may be claimed under the Contract. The Contractor shall preserve such records for a period of three (3) years following the date of Final Acceptance under the Contract and for such longer period as may be required by any other provision of the Contract. In the event of a claim or dispute, the Contractor agrees to make available at the office of the Contractor at all reasonable times all records for inspection, audit and reproduction by the Owner and its representatives. These requirements shall be applicable to and included in each Subcontract and purchase order issued with respect to the Work, except fixed price Subcontracts where the price is \$25,000 or less.

### **ARTICLE 10 PROTECTION OF PERSONS AND PROPERTY**

#### **§ 10.1 Safety Precautions and Programs**

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

**§ 10.1.1** No action or inaction of the Owner or the Architect relating to safety or property protection or a violation thereof will:

- .1 Relieve the Contractor of sole and complete responsibility for the violation and the correction thereof, or of sole liability for the consequences of said violation;
- .2 Impose any obligation upon the Owner or the Architect to inspect or review the Contractor’s safety program or precautions or to enforce the Contractor’s compliance with the requirements of this Article 10; and
- .3 Impose any continuing obligation upon the Owner or Architect to provide such notice to the Contractor or any other person or entity.

#### **§ 10.2 Safety of Persons and Property**

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

- .1 employees and others performing labor or services or furnishing materials or equipment on the Work and other persons who may be affected thereby;
- .2 the Work and materials and equipment to be incorporated or utilized therein, whether in storage on or off the site, under care, custody, or control of the Contractor, a Subcontractor, or a Sub-subcontractor;
- .3 other property and structures at the site or adjacent thereto, such as trees, shrubs, lawns, walks, pavements, roadways, structures, and utilities not designated for removal, relocation, or replacement in the course of construction; and
- .4 the work, materials, equipment, tools, machinery and facilities of or being utilized by the Owner’s own forces or their separate design professionals, consultants or contractors.

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

**§ 10.2.3** The Contractor shall implement, erect, and maintain, as required by existing conditions and performance of the Contract, reasonable safeguards for safety and protection, including but not limited to posting danger signs and other warnings against hazards; promulgating safety regulations; and notifying the owners and users of adjacent sites and utilities of the safeguards.

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

**§ 10.2.5** The Contractor shall promptly remedy damage and loss (other than damage or loss insured under property insurance required by the Contract Documents) to property referred to in Sections 10.2.1.2, 10.2.1.3, and 10.2.1.4

caused in whole or in part by the Contractor, a Subcontractor, a Sub-subcontractor, or anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable and for which the Contractor is responsible under Sections 10.2.1.2, 10.2.1.3, and 10.2.1.4. The Contractor may make a Claim for the cost to remedy the damage or loss to the extent such damage or loss is attributable to the negligent or other wrongful acts or omissions of the Owner or the Architect or anyone directly or indirectly employed by either of them, or by anyone for whose acts either of them may be liable, and not attributable to the fault or negligence of the Contractor. The foregoing obligations of the Contractor are in addition to the Contractor's obligations under Section 3.18.

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

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

**§ 10.2.8** The Contractor shall immediately report to the Owner and the Architect all accidents arising out of or in connection with the Work which cause death, serious personal injury or substantial or significant property damage. The Contractor shall promptly thereafter submit a written report of such accident, giving full details and statements of any witnesses. In addition, if death, serious personal injuries, or serious damages are caused, the accident shall be reported immediately by telephone or messenger to the Owner.

**§ 10.2.9** The Contractor shall, and shall require its Subcontractors to: be responsible for the adequate strength and safety of all scaffolding, staging and hoisting equipment and for temporary shoring, bracing and tying; furnish approved hard hats, other personal protective equipment as required, approved first aid supplies, the name of an individual on each shift who has completed the OSHA Supervisory Training Course and a posted list of emergency facilities; take prompt action to correct any hazardous conditions reported; comply with the requirements of the Occupational Safety and Health Act ("OSHA") and all other applicable federal, state and local worker safety laws, rules and regulations, including all standards and regulations which have been promulgated by the governmental authorities which administer such Acts and said requirements, standards and regulations are incorporated herein by reference. The Contractor shall be directly responsible for compliance therewith on the part of its agents, employees, Subcontractors, Sub-subcontractors, and materialmen and shall directly receive and be responsible for all citations, assessments, fines or penalties which may be incurred by reason of the failure of its agents, employees, materialmen, Subcontractors or Sub-subcontractors to so comply. Contractor shall provide adequate fire protection procedures during the use of cutting torches, welding equipment, plumber's torches and other flame and spark producing apparatus and comply with NFPA Standard No. 51B, as amended, or its replacement. The Contractor shall submit its Safety Plan for the Project in hardcopy form as a submittal to the Owner to demonstrate the general level of safety program he will conduct and his general adherence to good safety practices. The Owner's review, comment upon, approval or disapproval of such Safety Plan or any portion thereof shall not relieve Contractor for full responsibility for Project safety.

**§ 10.2.10** The Contractor, in all cases, shall comply with OSHA, EPA and all other Governmental Workplace Requirements. The term "Governmental Workplace Requirements" as used in the Contract Documents shall mean building, traffic, environmental, occupancy health, accessibility for disabled and other applicable laws, statutes, ordinances, regulations or decrees, of any federal, state, county, municipal or other governmental or quasi-governmental authority or agency pertaining (a) to the Project, (b) to the use and operation of the Project for their intended purposes, or (c) if the context of the sentence establishes this term is being used in connection with a different subject than those described in clauses (a) or (b), then to the subject matter described in the Section in which the term is used.

**§ 10.2.11 Injury or Damage to Person or Property**

If the Contractor suffers injury or damage to person or property because of an act or omission of the other party, or of others for whose acts such party is legally responsible, written notice of the injury or damage, whether or not insured, shall be given to the Owner within a reasonable time not exceeding seventy-two (72) hours after discovery. The notice shall provide sufficient detail to enable the Owner to investigate the matter.

**§ 10.2.12** Contractor shall protect adjoining private or municipal property and shall provide barricades, temporary fences and covered walkways required to protect the safety of passers-by, as required by prudent construction practices, local building codes, ordinances or other laws, or the Contract Documents.

**§ 10.2.13** At all times until the Owner's occupancy of the Work or a designated portion of the Work, the Contractor shall protect from damage, weather, deterioration, theft, vandalism and malicious mischief all materials, equipment, tools, and other items incorporated or to be incorporated in the Work or designated portion, or consumed or used in the performance of the Work or designated portion, and all Work in process and completed Work or designated portion. Contractor shall maintain Work materials and equipment free from damage from rain, wind, storms, frost or heat. If adverse weather makes it impossible to continue operations safely in spite of weather precautions, Contractor shall cease Work and immediately notify the Owner and the Architect of such cessation. Contractor shall not permit open fires or smoking on the Project site.

**§ 10.3 Hazardous Materials and Substances [Not applicable to asbestos/hazardous materials abatement contractors]**

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

**§ 10.3.1.1** As used in this Article 10, the term "hazardous material" shall mean and include any "hazardous substance" as defined in the federal Comprehensive Environmental Response Compensation Liability Act (CERCLA), any "hazardous waste" as defined in the federal Resource Conservation Recovery Act (RCRA), and similar terms as used in applicable federal, state and local statutes, rules and regulations.

**§ 10.3.2** In the event the Contractor ceases the Work under any of the circumstances described in Section 10.3.1, the Owner in consultation with the Architect and Contractor shall arrange at the Owner's cost for such governmental reviews, professional services and laboratory and other analyses as are reasonably necessary to determine the presence or absence of the suspected hazardous material, wetland condition or archeological site. In so doing, the Owner shall inform the Architect and Contractor of the nature of the governmental reviews, professional services and laboratory and other analyses that the Owner intends to arrange, and the identity of the agencies, firms and individuals the Owner intends to involve. If the Contractor has a reasonable objection to the nature of the reviews, services or analyses that the Owner intends to arrange, or to the identity of the agencies, firms or individuals that the Owner intends to involve, the Owner and Contractor shall negotiate in good faith and with expediency to determine alternative means or parties to perform the reviews, services or analyses. The Contractor shall cooperate in good faith with the Owner, the Architect, the Architect's consultants, the Owner's separate consultants and contractors and other agencies, firms and individuals that perform services or work at the Project site to analyze, control, remediate, render harmless or protect the suspected hazardous material, wetland condition or archeological site. Upon a determination based on such completed reviews, services or analyses as are reasonably necessary that the suspected hazardous material in fact does not exist, or has been controlled, remediated, rendered harmless or protected, the Owner shall transmit a written order to the Contractor to resume the construction of the Work in the affected area. Upon receipt of such order, the Contractor shall resume the Work as ordered. The Contractor shall be entitled to an extension of the Contract Time to the extent the Contractor is delayed in the progress of the Work by cessation of the Work under Section 10.3.1. If the Contractor claims additional costs as a result of such cessation of the Work, it shall make a Claim pursuant to Article 15.

**§ 10.3.3** The Contractor shall not permit or allow any Hazardous Substance to be deposited, disposed, placed, generated, buried, discharged, manufactured, refined, transported, treated, handled or located on or about the Project. Except as reasonably required for and are in quantities appropriate to the performance of the Work then being done, the Contractor shall exercise oversight over the use and storage of such Hazardous Substances and compliance with Governmental Requirements applicable to such use and storage. The Contractor shall store all hazardous materials safely, whether or not required by the Contract Documents. To the extent required by applicable Governmental Requirements, the Contractor shall have Material Safety Data Sheets (MSDS) for all Hazardous Substances used in the workplace and make them available to employees who are potentially exposed to those Hazardous Substances. The MSDS and other information shall be available at the jobsite with two (2) full copies of all information to be turned over to the Owner as it is received. The Contractor will be solely responsible for compliance with any "Right to Know" law relating to notice to its employees and others concerning Hazardous Substances to which they could be exposed in the course or the conduct of the Work, including the labeling of such materials, the filing of any necessary reports relating thereto, and related requirements. The Owner shall not be responsible under this Section 10.3 for

hazardous materials or substances the Contractor brings to the site unless such materials or substances are required by the Contract Documents. The Owner shall be responsible for hazardous materials or substances required by the Contract Documents, except to the extent of the Contractor's fault or negligence in the use and handling of such materials or substances, or by the failure of Contractor to perform as required by this Section 10.3.

§ 10.3.4 The Contractor shall indemnify and reimburse the Owner for the cost and expense the Owner incurs (1) for remediation of hazardous materials or substances the Contractor brings to the site and negligently handles, or (2) where the Contractor fails to perform its obligations under Section 10.3, except to the extent that the cost and expense are due to the Owner's fault or negligence.

§ 10.3.5 If, without negligence on the part of the Contractor, Subcontractor, or anyone for whose acts or omissions any of them are responsible, the Contractor is held liable by a government agency for the cost of remediation of a hazardous material or substance solely by reason of performing Work as required by the Contract Documents, the Owner shall reimburse the Contractor for all cost and expense thereby incurred.

#### § 10.4 Emergencies

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

#### § 10.5 SPILL RESPONSIBILITY

§ 10.5.1 The Contractor is responsible for any and all releases of environmental pollution during performance of the Contract which occur as a result of, or are contributed to by, actions of its agents, employees, or Subcontractors. The Contractor agrees to promptly remediate such releases to satisfaction of the Owner and proper regulatory agencies in a manner that complies with applicable federal, state, and local laws and regulations. Cleanup shall be at no cost to the Owner.

§ 10.5.2 Contractor shall obtain the Owner's written consent prior to bringing onto the Work site any (i) environmental pollutants or (ii) hazardous materials, as the same or reasonably similar terms are used in any applicable federal, state, or local statutes, rules or ordinances. Notwithstanding such written consent from the Owner, the Contractor, at all times, shall:

- .1 properly handle, use and dispose of all environmental pollutants and hazardous materials brought onto the Work site, in accordance with all applicable federal, state, or local statutes, rules, or ordinances;
- .2 be responsible for any and all spills, releases, discharges, or leaks of (or from) environmental pollutants or hazardous materials that the Contractor has brought onto the Work site; and
- .3 promptly clean up, without cost to the Owner, such spills, releases, discharges, or leaks to the Owner's satisfaction and in compliance with all applicable federal, state, or local statutes, rules or ordinances.

§ 10.5.3 The Contractor shall be liable for any and all costs, expenses, damages, claims, and causes of action, or any of them, related to or arising out of a spill, release, discharge, or leak of (or from) any environmental pollutant or hazardous substance or material, to the extent such spill, release, discharge, or leak was caused or contributed to by the Contractor's (i) fault or (ii) failure to perform in accordance with the Contract Documents. Nothing in this Section 10.5 shall limit the Contractor's liability or responsibility under any other provision of the Contract Documents.

§ 10.5.4 The Contractor shall report all reportable quantity releases described in this Section 10.5 to applicable federal, state, and local regulatory and emergency response agencies. Upon discovery, regardless of quantity, the Contractor must telephonically report all releases to the Owner. A written follow-up report shall be submitted to the Owner within forty-eight (48) hours of the telephonic report. Such written report shall contain, at a minimum:

- .1 Description of items released (identity, quantity, manifest number, and all other documentation required by law);
- .2 Whether amount of items released is EPA/DOE reportable and, if so, when it was reported;
- .3 Exact time and location of release, including a description of the area involved;
- .4 Containment procedures initiated;
- .5 Summary of communications about the release the Contractor has had with members of the press or state officials other than the Owner;
- .6 Description of cleanup procedures employed or to be employed at the site, including disposal location of spill residue; and

- .7 Personnel injuries, if any, resulting from, or aggravated by, the release.

## **ARTICLE 11 INSURANCE AND BONDS**

### **§ 11.1 CONTRACTOR'S LIABILITY INSURANCE**

§ 11.1.1 The Contractor shall purchase and maintain, and cause Subcontractors to purchase and maintain, insurance as set forth in Exhibit E.

### **§ 11.2 THE OWNER'S LIABILITY INSURANCE**

The Owner shall be responsible for purchasing and maintaining the Owner's usual liability insurance.

### **§ 11.3 PERFORMANCE BOND AND PAYMENT BOND**

§ 11.3.1 The Contractor shall furnish separate bonds covering the faithful performance of the Contract and the payment of obligations arising thereunder. The amount of each bond shall be equal to one hundred percent (100%) of the Contract Sum. The bonding company must be listed on the most current US Government Treasury list, Department Circular 570 or approved PRIOR TO BID SUBMISSION by Owner. The cost of the bonds shall be included in the Contract Sum. The bonds shall be submitted on the AIA A312 or other form acceptable to Owner and shall name Owner as beneficiary. Failure to adhere to these requirements may be grounds for rejection of the bid or cancellation by Owner of this Agreement.

§ 11.3.2 Any Change Order, Construction Change Directive, order for a minor change in the Work or other modification of the Contractor's obligations under the Contract shall not be subject to inspection or approval by any surety on any required bond. The surety on such bond, by issuing the bond, expressly waives its right to approve any such Change Order, Construction Change Directive or order and consents to any modification of the Contractor's obligations hereunder.

§ 11.3.3 The Contractor shall deliver the required bonds to the Owner prior to or with the signed (by the Contractor) Agreement to the Owner Representative at the address of the first page of this Agreement. The Contract shall not be executed by the Owner until the bonds have been received and validated.

### **§ 11.3.4 POWER OF ATTORNEY**

The Contractor shall require the Attorney-in-fact that executes the required bonds on behalf of the surety to affix thereto a certified and current copy of their power of attorney. The surety on any required bond shall be bound by the arbitration or litigation of any disputes between and among the Owner, Contractor, Subcontractors, Subcontractors' sureties, the Architect, the Architect's consultants, the Owner's separate contractors and consultants, and other third parties in the same way and to the same extent that the Contractor shall be bound. The surety shall be bound by the decisions and award of the arbitrator(s) or court in the same way and to the same extent that the Contractor shall be bound.

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

§ 11.3.6 If a payment bond and/or performance bond is required by the Owner under the Contract, the Owner may require that the Contractor subcontract only with Subcontractors who agree to file suit against such bond(s) in the event the Contractor fails to meet its payment or performance obligations to the Subcontractor, as the Subcontractor's exclusive remedy against the Owner, the Project or the Land. This requirement shall not apply if Contractor has not made payments to Subcontractors for the sole reason that the Owner has not paid the Contractor per the terms of the Agreement.

## **ARTICLE 12 UNCOVERING AND CORRECTION OF WORK**

### **§ 12.1 Uncovering of Work**

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

§ 12.1.2 If a portion of the Work has been covered that the Owner or the Architect has not specifically requested to examine prior to its being covered, the Architect or the Owner may request to see such Work and it shall be uncovered



by the Contractor subject to approval of the Owner. If such Work is in accordance with the Contract Documents, costs of uncovering and replacement shall, by appropriate Amendment, be at the Owner's expense. If such Work is not in accordance with the Contract Documents, the costs of uncovering the Work, and the cost of correction, shall be at the Contractor's expense without reimbursement from the Owner.

## **§ 12.2 Correction of Work**

### **§ 12.2.1 Before Substantial Completion**

The Contractor shall promptly correct Work rejected by the Architect or the Owner as defective or failing to conform to the requirements of the Contract Documents, whether discovered before or after Substantial Completion and whether or not fabricated, installed or completed. Costs of correcting such rejected Work, including additional testing and inspections, the cost of uncovering and replacement, and compensation for the Architect's services and the Owner's attorneys' fees and related costs, disbursements and expenses made necessary thereby, shall be at the Contractor's expense without reimbursement from the Owner. Roadways, pavements and curbs that are broken, damaged, settled or otherwise defective as a result of receiving, handling, storage of materials or the performance of any Work under the Contract Documents shall be fully restored to the satisfaction of the Owner.

### **§ 12.2.2 After Substantial Completion**

**§ 12.2.2.1** In addition to the Contractor's obligations under Section 3.5, if, (i) within one year after the date of Substantial Completion of the entire Work; (ii) within two years after the date of Substantial Completion of the Work, as to those components of the Work that include, alter or affect any portion of the building envelope and penetration components; or (iii) within the period established by the terms of an applicable special warranty required by the Contract Documents or by law; or (iv) after the date for commencement of warranties established under Section 9.9.1, any of the Work is found to be defective or not in accordance with the requirements of the Contract Documents, the Contractor shall correct it at the Contractor's expense without reimbursement from the Owner promptly after receipt of written notice from the Owner to do so. The Owner shall give such notice promptly after discovery of the condition. During the one-year period for correction of Work, if the Owner fails to notify the Contractor and give the Contractor an opportunity to make the correction, the Owner waives the rights to require correction by the Contractor on grounds of breach of warranty. The obligations of Contractor under this Section 12.2 shall survive acceptance of the Work under the Contract and termination of the Contract, is in addition to other warranties provided by contract or law, and does not establish a time limit for damages. If the Contractor fails to correct defective or nonconforming Work within a reasonable time during that period after receipt of notice from the Owner or the Architect, the Owner may correct it in accordance with Section 2.5. If payment of the Contract Sum has already been made by the Owner then upon demand the Contractor shall reimburse the Owner pursuant to Section 2.5. Without voiding specified warranties or relieving the Contractor of its responsibilities under this Section 12.2.2, the Owner reserves the right to make repairs as necessary to maintain the structure and its contents and operability. In addition:

.1 If, in the Owner's opinion, the nonconforming Work either prevents the use of the facility and/or immediate response is required to prevent further damage or to restore security to prevent external entrance, and/or is a safety hazard (e.g., break in the waterline, sprinkler system failure, failure of the heating system, inability to close or lock exterior door, etc.), Contractor shall initiate corrective work on site the same day if the Contractor is notified prior to noon, or by noon the following day if notified after noon, and shall complete corrective action within 48 hours.

.2 If, in the Owner's opinion, the nonconforming Work has the potential of becoming a safety hazard, affects internal security, or limits the use of the facility (e.g. loss of heat in a single classroom, failure of one or more plumbing fixtures, interior door locks not working, etc.), Contractor shall initiate corrective work on site within two working days and shall complete corrective action within 5 working days.

.3 If, in the Owner's opinion, the nonconforming Work does not have an impact on the use of the building, but must be fixed, (e.g., interior door closer broken, window cracked, wall covering seam coming loose, etc.), the Contractor shall initiate corrective work on site within 14 calendar days and shall complete corrective action within 28 calendar days.

**§ 12.2.2.2** The period for correction of Work shall be extended with respect to portions of Work first performed after Substantial Completion of the Work as a whole by the period of time between Substantial Completion of the Work as a whole and the actual completion of that portion of the Work. For example, if a portion of the Work is completed 15 days after Substantial Completion, the period of correction shall commence as to such Work 15 days after Substantial Completion.

§ 12.2.2.3 The period for correction of Work shall be extended by corrective Work performed by the Contractor pursuant to this Section 12.2, for such corrective Work for that period of time that equals the amount of time after Substantial Completion of the Work as a whole that the corrected portions of the Work were defective or nonconforming. Such extensions shall be applicable only to corrected portions of the Work.

§ 12.2.3 The Contractor shall remove from the site portions of the Work that are not in accordance with the requirements of the Contract Documents and are neither corrected by the Contractor nor accepted by the Owner.

§ 12.2.4 The Contractor shall bear the cost of correcting destroyed or damaged construction of the Owner or Separate Contractors, whether completed or partially completed, caused by the Contractor's correction or removal of Work that is defective or not in accordance with the requirements of the Contract Documents.

§ 12.2.5 Nothing contained in this Section 12.2 shall be construed to establish a period of limitation with respect to other obligations the Contractor has under the Contract Documents or applicable law. Establishment of the period for correction of Work as described in Section 12.2.2 relates only to the specific obligation of the Contractor to correct the Work, and has no relationship to the time nor shall otherwise be deemed to limit the time within which the obligation to comply with the Contract Documents or applicable law may be sought to be enforced, nor to the time within which proceedings may be commenced to establish the Contractor's liability with respect to the Contractor's obligations other than specifically to correct the Work.

§ 12.2.6 Prior to the first anniversary of Substantial Completion, the Contractor shall walk the project together with the Owner to identify items requiring to be corrected by the Contractor. The Contractor shall be responsible for scheduling this meeting, or shall attend such meeting together with relevant Subcontractors if scheduled by the Owner.

### § 12.3 Acceptance of Nonconforming Work

If the Owner prefers to accept Work that is defective or not in accordance with the requirements of the Contract Documents, the Owner may do so instead of requiring its removal and correction, in which case the Contract Sum will be reduced as appropriate and equitable. Such adjustment shall be effected whether or not final payment has been made. The Owner shall never be obligated to accept defective or non-conforming Work, or damages for the difference in value between conforming and defective or nonconforming Work, and in all cases the Owner shall be entitled to full removal and correction of defective or non-conforming Work.

### § 12.4 EFFECT OF OBSERVATIONS AND APPROVALS OF THE WORK

§ 12.4.1 The Contractor shall not be relieved from its obligations to perform the Work pursuant to the Contract Documents, or from responsibility for defects or nonconformities in the Work, either by the observations or reviews of the Work by the Owner, the Architect or other persons or entities or by other inspections, tests or approvals of the Work by any agency, entity or person.

## ARTICLE 13 MISCELLANEOUS PROVISIONS

### § 13.1 Governing Law

The Contract shall be governed by the law of the place where the Project is located.

### § 13.2 Successors and Assigns

§ 13.2.1 The Owner and Contractor respectively bind themselves, their partners, successors, assigns, and legal representatives to covenants, agreements, and obligations contained in the Contract Documents. The Contractor shall not assign its rights or obligations under the Contract in whole or in part, for any purpose, except to Subcontractors approved pursuant to the Contract, without the prior written consent of the Owner. If the Contractor makes or attempts to make such an assignment without such consent, the Contractor shall nevertheless remain legally responsible for all obligations under the Contract and such assignment shall be null, void and of no force or effect.

§ 13.2.2 The Owner may, without consent of the Contractor, assign the Contract to a lender providing bonds or construction financing for the Project or to a successor school owner or another government agency. In such event, the Contractor shall execute all consents and other documents reasonably required to facilitate the assignment.

### § 13.3 Rights and Remedies

§ 13.3.1 Duties and obligations imposed by the Contract Documents and rights and remedies available thereunder shall be in addition to and not a limitation of duties, obligations, rights, and remedies otherwise imposed or available

by law. The Contractor's sole remedy for claims, disputes and other matters in question of the Contractor, direct or indirect, arising out of, or relating to the Contract Documents or breach thereof, except claims which have been waived, is the dispute resolution procedure of Article 15.

**§ 13.3.2** No action or failure to act by the Owner, the Architect, or Contractor shall constitute a waiver of a right or duty afforded them under the Contract, nor shall such action or failure to act constitute approval of or acquiescence in a breach thereunder, except as may be specifically agreed upon in writing.

**§ 13.3.3** Notwithstanding any provision in this Contract to the contrary, in the event requirements of the Owner's lender or bond financing source, if any, regarding the conditions, calculation or timing of progress payments differ from those set forth in this Contract, Contractor shall cooperate to comply with such requirements provided the same are not unduly burdensome to Contractor.

**§ 13.3.4** If the majority of the Ownership or the control of the Contractor is acquired by a third party, and such acquisition reasonably imperils performance or creates a conflict of interest that the Owner, in its sole discretion, determines the Owner cannot itself reconcile, then the Owner may terminate this Contract at any time pursuant to Section 14.2, except that the Owner shall give the Contractor thirty days written notice of termination and the opportunity for the Contractor to cure prior to termination.

### **§ 13.4 Tests and Inspections**

**§ 13.4.1** Tests, inspections, and approvals of portions of the Work shall be made as required by the Contract Documents and by applicable laws, statutes, ordinances, codes, rules, and regulations or lawful orders of public authorities. Unless otherwise provided, the Contractor shall schedule and make arrangements for such tests, inspections, and approvals with an independent testing laboratory or entity acceptable to the Owner, or with the appropriate public authority, and shall bear all related costs of tests, inspections, and approvals. The Contractor shall give the Architect and the Owner timely notice of when and where tests and inspections are to be made so that the Architect and the Owner may be present for such procedures. The independent testing agency shall prepare the test reports, logs and certificates applicable to the specific inspections and tests and promptly and simultaneously deliver the specified number of copies of them to the designated parties. The Owner shall bear costs of tests, inspections, or approvals that do not become requirements until after bids are received or negotiations concluded, unless the test, inspection or approval arises from the fault of the Contractor or a Subcontractor or supplier, except as provided in Section 13.4.3. The Owner shall directly arrange and pay for tests, inspections, or approvals where building codes or applicable laws or regulations so require.

**§ 13.4.2** If the Architect, the Owner, or public authorities having jurisdiction determine that portions of the Work require additional testing, inspection, or approval not included under Section 13.4.1, the Architect will, upon written authorization from the Owner, instruct the Contractor to make arrangements for such additional testing, inspection, or approval, by an entity acceptable to the Owner, and the Contractor shall give timely notice to the Owner and the Architect of when and where tests and inspections are to be made so that the Owner and the Architect may be present for such procedures. Such costs, except as provided in Section 13.4.3, shall be at the Owner's expense.

**§ 13.4.3** If procedures for testing, inspection, or approval under Sections 13.4.1 and 13.4.2 reveal failure of the portions of the Work to comply with requirements established by the Contract Documents, all costs made necessary by such failure, including those of repeated procedures and compensation for the Architect's services and expenses, shall be at the Contractor's expense. If the Contractor arranges for an inspection and the inspector is required to wait, to leave without inspection, to perform a partial inspection, to return to complete or re-inspect, or otherwise to expend time other than for the primary inspection, the Contractor shall be responsible for all such costs to the extent caused by the Contractor. If the Contractor does not pay the charges for which it is responsible within 30 days of billing, the Owner may pay the charges directly and back charge the Contractor on the next progress payment the amount plus a 10% handling fee.

**§ 13.4.4** Required certificates of testing, inspection, or approval shall, unless otherwise required by the Contract Documents, be secured by the Contractor and promptly delivered to the Owner and the Architect.

**§ 13.4.5** If the Architect is to observe tests, inspections, or approvals required by the Contract Documents, the Architect will do so promptly and, where practicable, at the normal place of testing.

**§ 13.4.6** Tests or inspections conducted pursuant to the Contract Documents shall be made promptly to avoid unreasonable delay in the Work.



**§ 13.4.7** No acceptance by the Owner of any Work shall be construed to result from any inspections, tests or failure to inspect or test by the Owner, the Owner's representative, the Architect or any other person. No inspection, test, failure to inspect or test, or failure to discover any defect or nonconformity by the Owner, the Owner's representatives, the Architect or any other person shall relieve the Contractor of its responsibility for meeting the requirements of the Contract Documents or impair the Owner's right to reject defective or nonconforming items or right to avail itself of any other remedy to which the Owner may be entitled, notwithstanding the Owner's knowledge of the defect or nonconformity, its substantiality or the ease of its discovery.

### **§ 13.5 Interest**

Payments due and unpaid under the Contract Documents shall bear interest as specified by ORS 279C.570 from the date payment is due at the rate the parties agree upon in writing or, in the absence thereof, at the legal rate prevailing from time to time at the place where the Project is located for public improvement contracts.

### **§ 13.6 TIME ACCRUAL OF CLAIMS**

For claims by the Owner against Contractor based on the so-called "discovery rule," the applicable period of limitations or claims shall not commence to run and any alleged cause of action shall not be deemed to have accrued, whether such claims or actions involve strict liability, indemnity, intentional tort or other tort, breach of contract, breach of implied or express warranty, or any other legal or equitable theory, unless and until the party making the claim is fully aware of all three (3) of the following: (a) the identity of the party(ies) responsible; (b) the magnitude of the damage or the injury; and (c) the cause(s) of the damage or injury, provided this Section 13.6 shall not act to accelerate the accrual of any claim. The discovery rule provided herein applies in lieu of any other applicable statute or related case law. This provision does not accelerate the accrual of any claim earlier than what accrual would have been in the absence of this provision.

**§ 13.7 EXCULPATORY PROVISION** No personal liability or personal responsibility is assumed by nor shall at any time be asserted or enforced against any affiliate, partner, member, officer, director, trustee or beneficiary of the Owner on account of any agreement contained in the Agreement or any other Contract Documents, whether expressed or implied. Liability with respect to the entry and performance of this Agreement and all other Contract Documents, however it may arise, with respect to the Owner shall be asserted and enforced only against the Owner, and Contractor shall have no recourse to any assets of any affiliate, partner, member, director, officer, employee, trustee, beneficiary or other representative of the Owner. Any and all personal liability, if any, beyond that which may be asserted against the Owner is expressly waived and released by Contractor and by all persons or entities claiming by, through and under Contractor.

### **§ 13.8 INTERPRETATION**

The Contract Documents have been carefully reviewed by Contractor and its counsel and they shall be given fair and reasonable interpretation in accordance with the words contained in them without any weight being given to whether a provision was drafted by one party or its counsel. Paragraph headings are for convenience only and shall not be a part of the Contract Documents or considered in their interpretation. The Exhibits attached hereto are made a part hereof.

### **§ 13.9 SURVIVAL**

**§ 13.9.1** If the full performance of an obligation is not required prior to the termination of this Contract, such obligation shall survive the termination and be fully enforceable thereafter. In addition, except as otherwise waived or barred, all rights and obligations set out in the Contract shall survive completion of the Project or termination of the Contract (1) as to the parties rights and obligations that arose before such completion of the Project or termination and (2) as is necessary to give effect to rights and obligations that arise after such completion of the Project or termination but derive from a breach or performance failure that occurred prior to such completion or termination.

### **§ 13.10 WAIVER, AMENDMENT AND EXTENSION; RIGHTS**

No waiver, amendment, extension or variation in the terms of the Contract Documents shall be valid against a party unless in writing and signed by such party and then only to the extent specifically set forth in the writing. No failure or delay on the part of Owner in exercising any right, power or privilege under the Contract Documents, nor any course of dealing between the parties, will waive, amend or vary the terms of the Contract Documents. The Owner's rights and remedies provided by the Contract are cumulative and the use of any one right or remedy by the Owner shall not preclude or waive the right to use any or all other remedies. The Owner's rights and remedies are given in addition to any other rights the Owner may have by law, statute, ordinance or otherwise.

### § 13.11 EXTENT OF CONTRACT

The terms of the Contract Documents are intended by the parties to be a final expression of their understanding with respect to the Project and may not be contradicted by evidence of any prior or contemporaneous statements or understandings. No addition to, deletion from or modification of any term or provision of the Contract Documents shall be effective unless it is made in a writing signed by the parties hereto.

### § 13.12 SEVERABILITY

§ 13.12.1 This Contract is deemed to incorporate all provisions as required by law. Such incorporated provisions will have priority over any conflicting provision herein. Should any provision of the Contract, at any time, be in conflict with any law, statute, code, ordinance, rule, regulation or lawful order of a public authority, or be unenforceable or inoperative for any reason, then the remaining provisions of the Contract nonetheless shall continue in full force and effect and the court shall give the offending provision the fullest meaning and effect allowed by law.

### § 13.13 COUNTERPARTS

This Contract may be executed in counterparts, a complete set of which shall be considered an original.

### § 13.14 AUTHORITY

The Contractor represents and warrants that he or she or it has the full right, power, legal capacity and authority to enter into and perform the Contractor's respective obligations hereunder, and that such obligations shall be binding upon the Contractor without the requirement of the approval or consent of any other person or entity in connection herewith. Each person signing the Contract on behalf of the Contractor represents and warrants that he or she has the full right, power, legal capacity and authority to sign the Contract on behalf of the Contractor.

### § 13.15 REPRESENTATIONS

Contractor represents that (1) it has sufficient knowledge and expertise to construct the Work in accordance with all applicable codes and regulations; (2) it has reviewed, analyzed, and has current knowledge of the site; and (3) it has reviewed, analyzed, and has found sufficient for completion of the Work the Contract Documents. Contractor acknowledges and warrants that any exceptions to this representation have been specifically identified in the Contract Documents.

### § 13.16 OPERATION AND MAINTENANCE MANUALS

As part of the Work, Contractor shall submit one hard copy and two electronic media copies (on memory stick, CD or DVD and in standard Microsoft or Adobe format) of completed operation and maintenance manuals for review by the Owner's Representative prior to submission of any pay request for more than ninety percent (90%) of the work. No payments beyond ninety percent (90%) will be made by the Owner until the O & M Manual has been received. The O & M Manual shall contain a complete set of all submittals; all product data as required by the specifications; training information; a telephone list of consultants, manufacturers, installer and suppliers; manufacturer's printed data; balance reports; record and shop drawings; schematic diagrams of systems; appropriate equipment indices; warranties; bonds; etc. The Owner's Representative shall review and return one O & M Manual for any modifications or additions required. Prior to submission of its final pay request, complete and approved sets of O & M Manuals shall be delivered to the Owner's Representative by the Contractor.

### § 13.17 Training

As part of the Work, and prior to submission of the request for final payment, the Contractor shall schedule with the Owner's Representative training sessions for all equipment and systems, as required in the individual specifications sections. The Contractor shall schedule training sessions at least two (2) weeks in advance of the date of training to allow the Owner's personnel adequate notice. The O & M Manual shall be used as a basis for training. Training shall be a formal session, held after the equipment and/or system is completely installed and operational in its normal operating environment.

§ 13.18 Compliance with All Governmental Laws and Regulations. The Contractor shall comply with all federal, state and local laws, codes, regulations and ordinances applicable to the Work and this Agreement. ORS Chapters 279A and 279C and the Attorney General's Model Public Contracting Rules (as such rules may have been modified by the Owner) ("Rules") contain certain requirements for public contracts, including but not limited to certain required contract provisions. Required contract provisions are attached as Exhibit C and are incorporated herein by this reference. Furthermore, Contractor and the Owner agree to comply with all requirements of ORS Chapter 297A and 279C, the Rules and all other applicable laws and regulations (collectively "Laws"), whether or not such applicable provisions are included in Exhibit C and whether or not such provisions are excised in Exhibit C. In the event of a

conflict between any applicable Law and the provisions of this Contract, including Exhibit C, the Law shall prevail and control.

**§ 13.20** Contractor hereby agrees that the Project will be completed substantially in accordance with building permits and any other permits related to development of the Project, the Contract Documents and unless otherwise provided in the Contract Documents all manufacturers' or suppliers' recommended installation procedures so as to preserve any warranties with respect thereto, free and clear of all liens or encumbrances and within the time set forth in the Contract Documents. Contractor does further agree that on the date of Substantial Completion, the Project shall comply with all applicable building laws, ordinances, rules and regulations known, or which should in the exercise of reasonable care be known, to Contractor, and that all utility services necessary for the operation of the Project shall have been provided to the Project within the time for completion of construction.

**§ 13.21** If the Contractor fails, neglects or refuses to make prompt payment for labor, materials, equipment or other services furnished to the Contractor or a Subcontractor by any person in connection with the Project as such claim becomes due, the Owner may pay the claim and charge the amount of the payment against funds due or to become due the Contractor under this Contract. Payment of claims in this manner shall not relieve the Contractor or the Contractor's surety from obligation with respect to any unpaid claims.

**§ 13.22** This Contract is subject to the State of Oregon Bureau of Labor and Industries Prevailing Wage Rates, and Contractor shall pay or cause to be paid all workers accordingly.

## **ARTICLE 14 TERMINATION OR SUSPENSION OF THE CONTRACT**

### **§ 14.1 Termination by the Contractor**

**§ 14.1.1** The Contractor may terminate the Contract if the Work is stopped for a period of [thirty (30) consecutive days (*adjust if there's a prospect for delay between signature and construction*)] through no act or fault of the Contractor, a Subcontractor, a Sub-subcontractor, their agents or employees, or any other persons or entities performing portions of the Work under direct or indirect contract with the Contractor, for any of the following reasons:

- .1 Issuance of an order of a court or other public authority having jurisdiction that requires all Work to be stopped;
- .2 An act of government, such as a declaration of national emergency, that requires all Work to be stopped;
- .3 Because the Architect has not issued a Certificate for Payment and has not notified the Contractor of the reason for withholding certification as provided in Section 9.4.1 and the Owner has not cured such matters within seven (7) days after the date of Contractor's notice to the Owner, or because the Owner has not made payment on an approved Certificate for Payment (other than disputed sums) within the time stated in the Contract Documents.

**§ 14.1.2** The Contractor may terminate the Contract if, through no act or fault of the Contractor, a Subcontractor, a Sub-subcontractor, their agents or employees, or any other persons or entities performing portions of the Work, repeated suspensions, delays, or interruptions of the entire Work by the Owner as described in Section 14.3, constitute in the aggregate more than 100 percent of the total number of entire days scheduled for the Work completion, or [120 days (*adjust if there's a prospect for delay between signature and construction*)] in any 365-day period, whichever is less.

**§ 14.1.3** If one of the reasons described in Section 14.1.1 or 14.1.2 exists, the Contractor may, upon seven (7) days' written notice to the Owner, and if the Owner fails to cure such reason during the seven (7) day period, terminate the Contract and recover from the Owner payment for Work executed, as well as reasonable overhead and profit on Work executed, and costs incurred by reason of such termination. The total recovery of the Contractor shall not exceed the unpaid balance of the Contract Sum.

**§ 14.1.4** Notwithstanding any provision of the Contract seemingly to the contrary, to the fullest extent allowed by law, Contractor shall not stop or suspend the Work or terminate this Contract in the event the Owner withholds any disputed payment, so long as the Owner continues to make undisputed payments for which the Architect has issued a Certificate of Payment.

### **§ 14.2 Termination by the Owner for Cause**

**§ 14.2.1** The Owner may terminate the Contract if the Contractor

- .1 refuses or fails to supply enough properly skilled workers or proper materials or equipment;

- .2 fails to make payment to Subcontractors or suppliers in accordance with the respective agreements between the Contractor and the Subcontractors or suppliers;
- .3 fails to abide by or disregards applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of a public authority having jurisdiction;
- .4 fails to prosecute the Work or any portion thereof with sufficient diligence to ensure the Substantial Completion of the Work within the Contract Time;
- .5 fails to comply with the current Contractor's construction schedule;
- .6 is adjudged bankrupt, makes a general assignment for the benefit of its creditors, or a receiver is appointed on account of its insolvency;
- .7 submits one or more Applications for Payment that the Contractor overstates the amount to be paid, by the Owner; or
- .8 otherwise is guilty of substantial breach of a provision of the Contract Documents.

**§ 14.2.2** When any of the reasons described in Section 14.2.1 exist, the Owner may, without prejudice to any other rights or remedies of the Owner and after giving the Contractor and the Contractor's surety, if any, at least one (1) business day's written notice, terminate the Contract in whole or in part and may end employment of the Contractor and may:

- .1 Exclude the Contractor from the site and take possession of all or a portion of materials, equipment, tools, and construction equipment and machinery thereon owned by the Contractor;
- .2 Accept assignment of some or all subcontracts pursuant to Section 5.4; and
- .3 Finish the Work or a portion thereof by whatever reasonable means and method the Owner may deem expedient. Upon written request of the Contractor, the Owner shall furnish to the Contractor a detailed accounting of the costs incurred by the Owner in finishing the Work.

**§ 14.2.3** When the Owner terminates the Contract in whole or in part for one of the reasons stated in Section 14.2.1, the Contractor shall not be entitled to receive further payment until the Work is finished.

**§ 14.2.4** If the Owner completes the Work and costs of finishing the Work, including compensation for the Architect's services and expenses made necessary thereby, and other damages incurred by the Owner and not expressly waived exceeded the unpaid Contract Sum, such excess shall be paid by the Contractor to the Owner. Contractor shall be responsible and shall pay all the Owners' claims for costs and damages upon demand, pending reconciliation pursuant to this Section 14.2.4. The amount to be paid to the Contractor or the Owner, as the case may be, shall be determined and, at the Owner's option, certified by the Architect upon application by the Owner. This obligation for payment shall survive termination of the Contract.

**§ 14.2.5** In the event the Owner terminates the Contract for cause under this Section 14.2 and such termination subsequently is determined in a final arbitrated award or a final judgment to have been wrongful, the termination shall automatically be converted to a termination for the Owner's convenience pursuant to Section 14.4.

### **§ 14.3 Suspension by the Owner for Convenience**

**§ 14.3.1** The Owner may, without cause, order the Contractor in writing to suspend, delay or interrupt the Work, in whole or in part for such period of time as the Owner may determine.

**§ 14.3.2** The Contract Sum and Contract Time shall be adjusted for increases in the cost and time caused by suspension, delay, or interruption under Section 14.3.1 on all Work executed only. Adjustment of the Contract Sum shall be consistent with the terms of the Contract Documents, provided to the fullest extent allowed by law Contractor waives all claims for additional profit as a result of such suspension. No adjustment shall be made to the extent

- .1 that performance is, was, or would have been, so suspended, delayed, or interrupted, by another cause for which the Contractor is responsible; or
- .2 that an equitable adjustment is made or denied under another provision of the Contract.

### **§ 14.4 Termination by the Owner for Convenience**

**§ 14.4.1** The Owner may, at any time, terminate (without prejudice to any right or remedy of the Owner) the Contract in whole or in part for the Owner's convenience and without cause.

**§ 14.4.2** Upon receipt of written notice from the Owner of such termination for the Owner's convenience, the Contractor shall

- .1 cease operations as directed by the Owner in the notice;

- .2 take actions necessary, or that the Owner may direct, for the protection and preservation of the Work; and
- .3 except for Work directed to be performed prior to the effective date of termination stated in the notice, and also except for Work not covered by the termination, terminate all existing subcontracts and purchase orders and similar agreements and enter into no further subcontracts and purchase orders, and similar agreements.

**§ 14.4.3** In case of such termination for the Owner's convenience, the Owner shall pay the Contractor for Work properly executed; costs incurred by reason of the termination, including costs attributable to termination of Subcontracts; and the termination fee, if any, set forth in the Agreement. The total sum to be paid to the Contractor under this Section 14.4 shall not exceed the Contract Sum as reduced by the amount of payments otherwise made, the price of Work not terminated, and as otherwise permitted by this Contract. The amounts payable to the Contractor shall exclude the fair value of property which is destroyed, lost, stolen or damaged so as to become undeliverable to the Owner or to a buyer pursuant to section 14.5.

**§ 14.4.4** If the Owner terminates for cause, the Owner at any time may, by notice to Contractor, convert the termination to a termination for convenience. In the event the Owner terminates for cause and it is determined that the Owner did not have sufficient cause for termination, such termination shall be deemed at the Owner's convenience under this Section. Termination for convenience shall not impair the Owner's other rights, including its rights and remedies for any breach of this Contract. In no event shall Contractor have a claim for damages, lost profits or otherwise on account of the termination of the Contract by the Owner, with or without cause.

#### **§ 14.5 TERMINATION AND SUSPENSION BY THE OWNER**

**§ 14.5.1** In the event the Owner terminates the Contract in part under Section 14.2 or 14.4 or suspends the Contract in part under Section 14.3, the Contractor shall cooperate with the Owner and all other persons and entities performing work or services on the Project as necessary and required to facilitate the efficient and proper performance and completion of (1) the overall Project, if the Owner completes the entire Project, or (2) the portion of the Project the Owner completes, if the Owner completes less than the entire Project. In the event of a termination, the Owner expressly reserves the right to recover damages arising out of or related to Contractor's performance of the Contract, regardless of whether (a) such performance occurred before or after the effective date of termination or (b) the Owner provided Contractor with the opportunity to cure. Unless the Owner directs otherwise, after receipt of a notice of termination from the Owner pursuant to Section 14.2 or 14.4, the Contractor shall promptly:

- .1 Stop Work under the Contract on the date and as specified in the Notice of Termination;
- .2 Place no further orders or subcontracts for materials, equipment, services or facilities, except as may be necessary for completion of such portion of the Work as is not terminated;
- .3 Procure cancellation of all orders and subcontracts, upon terms acceptable to the Owner, to the extent that they relate to the performance of Work terminated;
- .4 Assign to the Owner all of the right, title and interest of the Contractor under all orders and subcontracts, in which case the Owner shall have the right, in its discretion, to accept such assignments or any of them, and settle or pay any or all claims arising out of the termination of such orders and subcontracts;
- .5 With the Owner's approval, settle all outstanding liabilities and all claims arising out of such termination of orders and subcontracts not assigned to the Owner;
- .6 Transfer title and deliver to the entity or entities designated by the Owner the fabricated or un-fabricated parts. Work in process, partially completed supplies and equipment, materials, parts, tools, dies, jigs and other fixtures, completed Work, supplies and other material produced as part of, or acquired in connection with the performance of, the Work terminated, and the completed or partially completed plans, drawings, information and other property related to the Work;
- .7 Use its best efforts to sell any property of the types referred to in Section 14.5.1.6. The Contractor shall not be required to extend credit to any buyer, and may acquire any such property under the conditions prescribed by and at a price or prices approved by the Owner, and the proceeds of any such transfer or disposition may be applied in reduction of any payments to be made by the Owner to the Contractor;
- .8 Take such action as may be necessary or as directed by the Owner to preserve and protect the Work and property related to this Project in the possession of the Contractor in which the Owner has an interest; and
- .9 Continue performance only to the extent not terminated.



§ 14.5.2 The Contractor shall, from the effective Date of Termination until the expiration of three (3) years after final settlement under this Contract, preserve and make available to the Owner, at all reasonable times at the office of the Contractor, and without charge to the Owner, all books, records, documents, photographs and other evidence bearing on the costs and expenses of the Contractor under this Contract and relating to the terminated Work.

§ 14.5.3 In arriving at any amount due the Contractor after termination, in addition to any other permitted deductions, the following deductions shall be made:

- .1 All un-liquidated advance or other prior payments on account made to the Contractor applicable to the terminated portion of the Contract;
- .2 Any claim pursued under the Contract which the Owner may have against the Contractor, including without limitation liquidated damages;
- .3 An amount necessary to protect the Owner against outstanding or potential liens or claims;
- .4 The agreed price for or the proceeds of sale of any materials, supplies or other things acquired by the Contractor or sold, pursuant to the provisions of section 14.5.1.7, and not otherwise recovered by or credited to the Owner.

§ 14.5.4 If (and only if) the termination pursuant to Section 14.4 is partial, the Contractor may file a claim for equitable adjustment of the price or prices specified in the Contract relating to the continued portion of the Contract. Any claim by the Contractor for an equitable adjustment under this section must be asserted within thirty days from the effective date of the partial termination or it shall be deemed barred.

§ 14.5.5 The Contractor shall refund to the Owner any amounts paid by the Owner to the Contractor in excess of costs reimbursable under the Contract Documents.

§ 14.5.6 The Owner may have costs reimbursable under this Article 14 audited and certified by accountants selected by the Owner, who shall have full access to all the books and records of the Contractor.

§ 14.5.7 To the fullest extent allowed by law, the damages and relief from termination by the Owner specifically provided in Article 14 shall be the Contractor's sole entitlement in the event of termination.

## ARTICLE 15 CLAIMS AND DISPUTES

### § 15.1 Claims

#### § 15.1.1 Definition

A Claim is a demand or assertion by one of the parties seeking, as a matter of right, payment of money, a change in the Contract Time, or other relief with respect to the terms of the Contract. The term "Claim" also includes other disputes and matters in question between the Owner and Contractor arising out of or relating to the Contract. The responsibility to substantiate Claims shall rest with the party making the Claim. This Section 15.1.1 does not require the Owner to file a Claim in order to impose liquidated damages in accordance with the Contract Documents.

#### § 15.1.2 Claims

Contractor shall commence all Claims and causes of action against the other and arising out of or related to the Contract, whether in contract, tort, breach of warranty or otherwise, in accordance with the requirements of the binding dispute resolution method selected in the Agreement. Contractor waives all Claims and causes of action not commenced in accordance with this Section 15.1.2.

#### § 15.1.3 Notice of Claims

§ 15.1.3.1 Claims by either the Owner or Contractor shall be initiated by written notice to the other party. Unless a different period for assertion of particular Claims is specifically identified in this Agreement, Contractor must give written notice of any Claim to the Owner not later than seven (7) days after occurrence of the event giving rise to the Claim or Contractor first becomes aware of the Claim, whichever is sooner, or the Claim shall be deemed forever time barred and waived. Contractor's notice shall provide sufficient detail to enable the Owner to investigate the matter, and shall include a clear description of the Claim, the proposed change in the Contract Sum and/or Contract Time of the Claim, and data supporting the Claim. Failure to properly submit the notice of Claim shall constitute waiver of the Claim. The Claim shall be deemed to include all changes, direct and indirect, in cost and in time to which the Contractor (and Subcontractors) is entitled. Prior to the initiation of a dispute resolution procedure, the Owner or its representatives shall have the right to audit and copy any Subcontractor or Supplier whose claim is part of or included in the Claim. All Claims shall be addressed to:

«Purchasing Manager»  
«Beaverton School District #48J »  
«16550 SW Merlo Road»  
«Beaverton, OR 97003»  
«Telephone: (503) 356-4324»

In addition, a copy of the Claim notice shall be sent concurrently to the Owner's Project Manager and the Owner's Administrator for Facilities Development at the above address. All unresolved Contractor Claims shall be deemed waived and released by Contractor unless Contractor has strictly complied with the time limits of the Contract Documents.

#### **§ 15.1.4 Continuing Contract Performance**

**§ 15.1.4.1** Pending final resolution of a Claim, except as otherwise agreed in writing or as provided in Section 9.7 and Article 14, the Contractor shall proceed diligently with performance of the Contract and the Owner shall continue to make payments of undisputed amounts in accordance with the Contract Documents. The Architect will prepare Amendments, Change Orders and issue Certificates for Payment in accordance with the decisions of the Owner.

#### **§ 15.1.5 Claims for Additional Cost**

If the Contractor wishes to make a Claim for an increase in the Contract Sum, written notice as provided in Section 15.1.3 shall be given before proceeding to execute the portion of the Work that is the subject of the Claim. Notice under Section 15.1.3 shall contain sufficient detail and substantiating data to permit evaluation of the Claim by the Owner. No such Claim shall be valid unless so made. Prior notice is not required for Claims relating to an emergency endangering life or property arising under Section 10.4.

#### **§ 15.1.6 Claims for Additional Time**

**§ 15.1.6.1** If the Contractor wishes to make a Claim for an increase in the Contract Time, notice as provided in Section 15.1.3 shall be given. The Contractor's Claim shall include an estimate of cost and of probable effect of delay on progress of the Work. Such notice shall include detailed documentation of the cause or event resulting in the need for the extension of time, and a schedule analysis based upon the approved Contractor's construction schedule, showing the impact of the cause or event on the critical path of the approved Contractor's construction schedule. No Claim under this Section 15.1.6 shall be valid unless so made. In the case of a continuing delay, only one Claim is necessary.

**§ 15.1.6.2** If adverse weather conditions are the basis for a Claim for additional time, such Claim shall be documented by data substantiating that weather conditions were abnormal for the period of time, could not have been reasonably anticipated, and had an adverse effect on the critical path for the scheduled construction in a manner that could not be avoided by rescheduling and that either the Work was on schedule (or not behind schedule through the fault of the Contractor) at the time the adverse weather conditions occurred or the adverse effect on the scheduled construction would have occurred whether or not the Work was on schedule, or by implementing measures to protect against the weather so that the Work could proceed. No claim for additional time will be granted where the scheduled construction adversely affected was not on the critical path or was within the schedule float or contingency (or would have been in float or contingency had Contractor appropriately rescheduled Work on account of weather conditions), or could be avoided by Contractor through temporary weather protection measures. Claims for additional time will not be granted where the delays for which the Contractor is responsible result in moving Work into an adverse weather season. The Contractor shall provide copies of weather reports to the Owner and the Architect, produced from 'NOAA' - National Oceanic & Atmospheric Administration' for dates affected, as well as, a ten (10) year historical average report for same period of time. In addition, the Contractor must submit a revised construction schedule to the Owner and the Architect showing critical path activities affected by the delay. A rain, snow, ice, windstorm, high water, or other natural phenomenon for the specific locality of the Work (a "Weather Event"), which might reasonably have been anticipated from the previous 10-year historical records of the general locality of the Work, shall not be construed as abnormal. The parties agree that only a Weather Event exceeding one-hundred twenty-five percent (125%) of the weekly, 10-year historical average for the general locality of the Work shall be considered abnormal for purposes of this Section 15.1.6.2. The Office of the Environmental Data Service of the National Oceanic and Atmospheric Administration of the U.S. Department of Commerce nearest the Project site shall be considered the official agency of record for weather information.

#### **§ 15.2 Initial Decision**

§ 15.2.1 In the event of a Claim against the Contractor, the Owner may, but is not obligated to, notify the surety, if any, of the nature and amount of the Claim. If the Claim relates to a possibility of a Contractor's default, the Owner may, but is not obligated to, notify the surety and request the surety's assistance in resolving the controversy.

§ 15.2.2 If a claim, dispute or other matter in question relates to or is the subject of a bond, the party asserting such matter may proceed in accordance with applicable Oregon law to comply with the bond notice or filing deadlines prior to resolution of the matter by the Owner. Contractor shall make its employees and principals, as well as its work and project records, available to the Owner upon the Owner's request, in the event that there is any dispute concerning the compliance of the Work with the Agreement or the Contract Documents. The availability of such personnel and documentation shall be provided without the necessity of a subpoena, request for production or similar legal process. In the event that the Owner is required to utilize some form of legal process to obtain such ability, the Owner shall be entitled to recover its reasonable attorney fees and the costs expended in obtaining access to such personnel and documentation, regardless of whether the Owner is the prevailing party in connection with any later dispute resolution, mediation, arbitration, or litigation regarding such matters.

### § 15.3 Mediation

§ 15.3.1 Claims, disputes, or other matters in controversy arising out of or related to the Contract, except those waived as provided for in Sections 9.10.4, 9.10.5, and 15.1.7, shall, at the election of the Owner, be subject to mediation as a condition precedent to binding dispute resolution. If the Owner has given written notice to Contractor requiring mediation of the claim, Contractor may not commence litigation against the Owner until the mediation is concluded, except as is necessary to avoid a time bar from commencement of litigation under this Contract or applicable law the Owner may commence binding dispute resolution at any time.

§ 15.3.2 At the Owner's election, the parties shall endeavor to resolve their Claims by mediation which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Mediation Procedures in effect on the date of the Agreement. A request for mediation shall be made in writing, delivered to the other party to the Contract, and filed with the person or entity administering the mediation. The request may be made concurrently with the filing of binding dispute resolution proceedings but, in such event, mediation shall proceed in advance of binding dispute resolution proceedings, which shall be stayed pending attempted mediation for a period of 60 days from the date of filing, unless stayed for a longer period by agreement of the parties or court order. If an arbitration is stayed pursuant to this Section 15.3.2, the parties may nonetheless proceed to the selection of the arbitrator(s) and agree upon a schedule for later proceedings.

§ 15.3.3 The parties shall share the mediator's fee and any filing fees equally. The mediation shall be held in the place where the Project is located, unless another location is mutually agreed upon. Agreements reached in mediation shall be enforceable as settlement agreements in any court having jurisdiction thereof.

### § 15.4 Arbitration

§ 15.4.1 If the parties have selected arbitration as the method for binding dispute resolution in the Agreement (otherwise, litigation shall be the means of binding dispute resolution), any Claim subject to, but not resolved by, mediation (if the Owner elected to mediate) shall be subject to arbitration which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Arbitration Rules in effect on the date of the Agreement. There shall only be one arbitrator regardless of the amount in dispute. The arbitration shall be conducted in the place where the Project is located, unless another location is mutually agreed upon. A demand for arbitration shall be made in writing, delivered to the other party to the Contract, and filed with the person or entity administering the arbitration. The party filing a notice of demand for arbitration must assert in the demand all Claims then known to that party on which arbitration is permitted to be demanded.

§ 15.4.1.1 A demand for arbitration shall be made no earlier than concurrently with the filing of a request for mediation, but in no event shall it be made after the date when the institution of legal or equitable proceedings based on the Claim would be barred by the applicable statute of limitations. For statute of limitations purposes, receipt of a written demand for arbitration by the person or entity administering the arbitration shall constitute the institution of legal or equitable proceedings based on the Claim.

§ 15.4.1.2 Any arbitration or other legal proceeding must be initiated by Contractor within the earlier of (a) one hundred twenty (120) days after Substantial Completion as designated in writing by the Owner or (b) sixty (60) days after Final Acceptance, or the Claim will be considered waived and time-barred. This requirement cannot be waived



except by an explicit written waiver signed by the Owner. The pendency of mediation shall toll these deadlines unless and until the Owner terminates mediation.

**§ 15.4.2** The award rendered by the arbitrator shall be final, and judgment may be entered upon it in accordance with applicable law in any court having jurisdiction thereof.

**§ 15.4.3** The foregoing agreement to arbitrate and other agreements to arbitrate with an additional person or entity duly consented to by parties to the Agreement, shall be specifically enforceable under applicable law in any court having jurisdiction thereof.

**§ 15.4.4 Consolidation or Joinder**

**§ 15.4.4.1** Subject to the rules of the American Arbitration Association or other applicable arbitration rules, Owner (and with the Owner's prior written consent, the Contractor) may consolidate an arbitration conducted under this Agreement with any other arbitration to which it is a party provided that (1) the arbitration agreement governing the other arbitration permits consolidation, (2) the arbitrations to be consolidated substantially involve common questions of law or fact, and (3) the arbitrations employ materially similar procedural rules and methods for selecting arbitrator(s). In addition, at the Owner's election, the Contractor agrees to joinder in any arbitration or litigation proceeding in which the Owner is a party with third parties in which the Owner or such third party alleges indemnification or contribution from the Contractor, any of its Subcontractors, any one directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable. The Contractor agrees that all of its Subcontractors will, in the subcontracts, similarly stipulate; in the event any does not, the Contractor shall be liable in place of such Subcontractor(s).

**§ 15.4.4.2** Subject to the rules of the American Arbitration Association or other applicable arbitration rules, the Owner (and with Owner's prior written consent, the Contractor) may include by joinder persons or entities substantially involved in a common question of law or fact whose presence is required if complete relief is to be accorded in arbitration, provided that the party sought to be joined consents in writing to such joinder. Consent to arbitration involving an additional person or entity shall not constitute consent to arbitration of any claim, dispute or other matter in question not described in the written consent.

**§ 15.4.4.3** The Owner and the Contractor grant to any person or entity made a party to an arbitration conducted under this Section 15.4, whether by joinder or consolidation, the same rights of joinder and consolidation as those of the Owner and the Contractor under this Agreement.

**§ 15.4.4.4** Notwithstanding the foregoing, the Owner does not agree to joinder in any separate proceeding in which Contractor is a party, without the Owner's written consent. Upon demand by the Owner, claims between the Owner and Contractor, the Owner and the Architect, Contractor and the Architect or Contractor and its subcontractors and suppliers shall be submitted in a single arbitration, and Contractor agrees to joinder in such arbitration.

**§ 15.4.4.5** If another involved party will not consent to arbitration or cannot be joined, the Owner, in its sole discretion, has the option to elect consolidated litigation in court to resolve the dispute. The venue for such litigation shall be in the place where the Project is located, and the outcome shall be decided by the judge only (bench trial). Both parties expressly waive their right to a jury trial. If another involved party will not consent to a bench trial, the Owner, in its sole discretion, has the option to elect a consolidated jury trial. The agreements contained in this Section 15.4 shall be specifically enforceable in accordance with applicable law in any court having jurisdiction. Any award rendered by an arbitrator shall be final, and judgment may be entered upon it in accordance with applicable law in any court having jurisdiction. The arbitrator is specifically empowered to award attorneys' fees and costs to the extent allowed by contract or law. It is understood that the purpose of this Section 15.4.4.5 is to allow the Owner to determine the best means of achieving a single consolidated proceeding that will minimize duplicative processes and minimize the risk of inconsistent results, in the following order of preference: (1) a consolidated arbitration of all significant parties, if possible; or (2) alternatively, a consolidated bench trial of all significant parties, if possible; or (3) alternatively, and as a last resort, a consolidated jury trial of all significant parties.

**§ 15.4.4.6** With respect to any claim for allegedly defective work or warranty item asserted against the Owner by any occupant or user of any portion of the Project, or their assignee, successor or subrogee, through court action or arbitration ("Defect Claims"), the Owner shall have the right to join the Contractor in the proceeding. In the event a proceeding under this Agreement is pending relating to a matter of common fact in the Defect Claim proceeding, such

proceeding under this Agreement shall be stayed pending resolution of the Defect Claim proceeding to the extent allowed by law.

## § 15.5 DISPUTE EXPENSES

§ 15.5.1 In the event of any dispute relating to this Agreement the Work or the Project, whether such dispute is resolved through arbitration or through judicial process, the prevailing party shall recover from the other party, the prevailing party's "Dispute Expenses" incurred in arbitration, at trial or on appeal or review from a decision or determination in arbitration or following trial, including without limitation any proceeding under the US Bankruptcy Code. For purposes of this Agreement, the term "Dispute Expenses" shall include a recovery for the following items of expense: reasonable attorney and paralegal fees, reasonable fees for expert witnesses and consultants, costs for providing discovery materials, costs for creation of mediation or trial materials (including, without limitation, photographs, exhibits, analyses, diagrams, or plans) and a reasonable reimbursement for employed staff time incurred with respect to handling any such claim to completion. All the foregoing items shall be in addition to any statutory award of costs and fees provided under Oregon law. The foregoing provisions recognize the significant expenditure of public funds by the Owner under this Agreement and the necessity of the Owner to recoup expenses associated with recovering public money for breaches of this Agreement, for non-complying Work or for warranty or contractual claims.

**EXHIBIT B**

**FORMS OF WAIVERS AND RELEASES**

CONDITIONAL RELEASE ON PROGRESS PAYMENT	UNCONDITIONAL RELEASE ON PROGRESS PAYMENT
--	--

The undersigned does hereby acknowledge that upon receipt by the undersigned of a check from \_\_\_\_\_ in the sum of \$\_\_\_\_\_ for labor, services, equipment and materials, and covering all events, conditions and occurrences, on the above-referenced job, and when the check has been properly endorsed and has been paid by the bank upon which it was drawn, this document shall become effective to release any and all rights of lien and claims of lien, and any and all other claims, including but not limited to, negligence, breach of contract, delay and impact claims, or any other claims, which the undersigned has or may have, whether known or unknown, on the above-referenced job ("Claims"). This release covers full payment for all labor, services, equipment, materials, events, conditions, occurrences and Claims through \_\_\_\_\_ (Date) only and does not cover unpaid retention or items furnished after that date.

Before any recipient of this document relies on it, said party should verify evidence of payment to the undersigned.

I CERTIFY UNDER PENALTY OF PERJURY UNDER LAWS OF THE STATE OF OREGON THAT THE ABOVE IS A TRUE AND CORRECT STATEMENT.

SIGNATURE:

\_\_\_\_\_  
(Authorized Corporate Officer/Partner/Owner)

(Title) \_\_\_\_\_

Company Name: \_\_\_\_\_

Dated this \_\_\_\_ day of \_\_\_\_\_, 20\_\_

Project Name: \_\_\_\_\_

Project Address: \_\_\_\_\_

The undersigned does hereby acknowledge that the undersigned has been paid and has received a progress payment in the sum of \$\_\_\_\_\_ for labor, services, equipment and materials, and covering all events, conditions and occurrences, on the above-referenced job, and does hereby release any and all rights of lien and claims of lien, and any and all other claims, including but not limited to, negligence, breach of contract, delay and impact claims, or any other claims, which the undersigned has or may have, whether known or unknown, on the above-referenced job ("Claims"). This release covers full payment for all labor, services, equipment, materials, events, conditions, occurrences and Claims through \_\_\_\_\_ (Date) only and does not cover unpaid retention or items furnished after that date.

NOTICE: THIS DOCUMENT IS ENFORCEABLE AGAINST YOU IF YOU SIGN IT, EVEN IF YOU HAVE NOT BEEN PAID. IF YOU HAVE NOT BEEN PAID, USE A CONDITIONAL RELEASE FORM.

I CERTIFY UNDER PENALTY OF PERJURY UNDER LAWS OF THE STATE OF OREGON THAT THE ABOVE IS A TRUE AND CORRECT STATEMENT.

SIGNATURE:

\_\_\_\_\_  
(Authorized Corporate Officer/Partner/Owner)

(Title) \_\_\_\_\_

Company Name: \_\_\_\_\_

Dated this \_\_\_\_ day of \_\_\_\_\_, 20\_\_

Project Name: \_\_\_\_\_

Project Address: \_\_\_\_\_

\_\_\_\_\_

CONDITIONAL RELEASE ON FINAL PAYMENT	UNCONDITIONAL RELEASE ON FINAL PAYMENT
---	---

The undersigned does hereby acknowledge that upon receipt by the undersigned of a final payment check from \_\_\_\_\_ in the sum of \$\_\_\_\_\_ (representing the agreed full and final payment) for all labor, services, equipment and materials, and covering all events, conditions and occurrences, on the above-referenced job, and when the check has been properly endorsed and has been paid by the bank upon which it was drawn, this document shall become effective to release any and all rights of lien and claims of lien, and any and all other claims, including but not limited to, negligence, breach of contract, delay and impact claims, or any other claims, which the undersigned has or may have, whether known or unknown, on the above-referenced job ("Claims"). This release covers full and final payment for all labor, services, equipment, materials, events, conditions, occurrences and Claims, including but not limited to all retention, through Final Completion of the Work and for the entire project.

Before any recipient of this document relies on it, said party should verify evidence of payment to the undersigned.

I CERTIFY UNDER PENALTY OF PERJURY UNDER LAWS OF THE STATE OF OREGON THAT THE ABOVE IS A TRUE AND CORRECT STATEMENT.

SIGNATURE: \_\_\_\_\_

(Authorized Corporate Officer/Partner/Owner)

(Title) \_\_\_\_\_

Company Name: \_\_\_\_\_

Dated this \_\_\_\_ day of \_\_\_\_\_, 20\_\_

Project Name: \_\_\_\_\_

Project Address: \_\_\_\_\_

The undersigned does hereby acknowledge that the undersigned has been paid and has received final payment in the sum of \$\_\_\_\_\_ (representing the agreed full and final payment) for all labor, services, equipment and materials, and covering all events, conditions and occurrences, on the above-referenced job, and does hereby release any and all rights of lien and claims of lien, and any and all other claims, including but not limited to, negligence, breach of contract, delay and impact claims, or any other claims, which the undersigned has or may have, whether known or unknown, on the above-referenced job ("Claims"). This release covers full and final payment for all labor, services, equipment, materials, events, conditions, occurrences and Claims, including but not limited to all retention, through Final Completion of the Work and for the entire project.

NOTICE: THIS DOCUMENT IS ENFORCEABLE AGAINST YOU IF YOU SIGN IT, EVEN IF YOU HAVE NOT BEEN PAID. IF YOU HAVE NOT BEEN PAID, USE A CONDITIONAL RELEASE FORM.

I CERTIFY UNDER PENALTY OF PERJURY UNDER LAWS OF THE STATE OF OREGON THAT THE ABOVE IS A TRUE AND CORRECT STATEMENT.

SIGNATURE: \_\_\_\_\_

(Authorized Corporate Officer/Partner/Owner)

(Title) \_\_\_\_\_

Company Name: \_\_\_\_\_

Dated this \_\_\_\_ day of \_\_\_\_\_, 20\_\_

Project Name: \_\_\_\_\_

Project Address: \_\_\_\_\_

## **EXHIBIT C**

### **PROVISIONS FROM THE OREGON PUBLIC CONTRACTING CODE AND PUBLIC CONTRACTING RULES**

#### **1. GENERAL**

1.1 **INCORPORATION OF ALL CONTRACT PROVISIONS.** The Contract hereby incorporates all contract provisions that are required to be incorporated into contracts with public entities pursuant to (a) the Public Contracting Code (ORS Chapters 279A, 279B and 279C), (b) the Attorney General Model Public Contracting Rules (which are referred to in this Exhibit as the “Rules”) or (c) other applicable law. The provisions incorporated into the Contract under the preceding sentence include, without limitation, any provisions or amendments to provisions that become required after the Contract is executed.

1.2 **DISCLAIMER REGARDING ANY UNLISTED CONTRACT PROVISIONS.** The provisions listed in this Exhibit are not necessarily an exhaustive list of provisions that are required under the Public Contracting Code, the Rules or other applicable law, and the fact that this Exhibit does not list a provision that is required by the Public Contracting Code, the Rules or other applicable law will not (i) prevent or otherwise diminish the incorporation of that unlisted provision into the Contract or (ii) negate or otherwise diminish Contractor’s obligation to comply with applicable laws.

#### **2. PAYMENT.**

2.1 **PROMPT PAYMENT.** Contractor shall promptly pay all of its obligations arising out of or in connection with the Work, including, but not limited to, payments (1) to all persons, as due, supplying to Contractor labor, equipment, services or material for the performance of the Work, (2) of all contributions or amounts due the Industrial Accident Fund from Contractor or the Subcontractors incurred in the performance of the Work, and (3) to the Department of Revenue of all sums withheld from employees under ORS 316.167.

2.2 **CONTRACTOR’S OBLIGATIONS TO FIRST-TIER SUBCONTRACTOR.** Contractor shall pay each first-tier Subcontractor for satisfactory performance under its subcontract within 10 days out of amounts the Owner pays to the Contractor under the Contract. Contractor shall provide a first-tier Subcontractor with a standard form that the first-tier Subcontractor may use as an application for payment or as another method by which the Subcontractor may claim a payment due from the Contractor. Contractor shall use this same form and regular administrative procedures for processing payments during the entire term of the Subcontract. Contractor may change the form or the regular administrative procedures the Contractor uses for processing payments if the Contractor notifies the Subcontractor in writing at least 45 days before the date on which the Contractor makes the change and includes with the written notice a copy of the new or changed form or a description of the new or changed procedure.

2.3 **PROMPT PAYMENT POLICY.** It is the policy of the State of Oregon that all payments due on a public improvement contract and owed by a contracting agency shall be paid promptly. No public contracting agency is exempt from the provisions of ORS 279C.570.

2.4 **CONTRACTOR’S FAILURE TO MAKE PROMPT PAYMENT.** If the Contractor has failed, neglected or refused to pay promptly a person’s claim for labor, equipment, services or materials that the person provides to the Contractor or a Subcontractor in connection with the Project as such claim becomes due, the Owner may pay such claim to the person that provides the labor, equipment, services or materials and charge the amount of the payment against funds due or to become due the Contractor under the Contract. Owner reserves the right to make payments directly or by multiple-payee check and Contractor hereby consents to such direct and multiple-payee check payments. Upon Owner’s request, Contractor

shall furnish to Owner the information required to facilitate such payments with each application for payment, including (1) names, addresses, and telephone numbers of persons making any such claim for labor, equipment, services or material, and (2) a complete listing of outstanding amounts owed to all such persons.

**2.5 CONTRACTOR'S AND FIRST-TIER SUBCONTRACTOR'S FAILURE TO MAKE PAYMENT AFTER PAYMENT FROM OWNER; INTEREST PENALTY.** If the Contractor or a first-tier Subcontractor fails, neglects or refuses to pay a person that provides labor, equipment, services or materials in connection the Contract within thirty (30) days after receiving payment from the Owner or the Contractor, the Contractor or first-tier Subcontractor owes the person the amount due plus interest charges that begin at the end of the 10-day period that payment is due under ORS 279C.580(4) and that end upon final payment, unless payment is subject to a good faith dispute as defined in ORS 279C.580. The rate of interest on the amount due is nine percent per annum. The amount of interest may not be waived.

**2.6 CONSTRUCTION CONTRACTORS BOARD COMPLAINT.** If the Contractor or a Subcontractor fails, neglects or refuses to make payment to a person that provides labor, equipment, services or materials in connection with the Contract, the person may file a complaint with the Construction Contractors Board, unless payment is subject to a good faith dispute as defined in ORS 279C.580.

**2.7 CONTINUING LIABILITY OF CONTRACTOR AND SURETY.** Payment by the Owner of a claim in the manner authorized in this Section 2 does not relieve the Contractor or the Contractor's surety from obligation with respect to any unpaid claims.

**2.8 RETAINAGE.** Retainage shall be subject to the applicable requirements of ORS 279C.550 through 279C.570C.570. The Owner may elect to make early release of some or any portion of the retainage as allowed therein. The Contractor may withhold payment of not more than 5% from the moneys earned by any Subcontractor, provided that the Contractor pays interest to the Subcontractor at the same interest rate it receives from its reserved funds. If requested by the Owner, the Contractor shall specify the amount of the retainage and interest due a Subcontractor.

### **3. PUBLIC WORKS PROJECT.**

**3.1 PREVAILING RATE OF WAGE.** The Project is a public works project subject to the prevailing wage rate requirements in ORS 279C.800 to 279C.870. Contractor and the Subcontractors shall comply with ORS 279C.840. Workers in each trade or occupation required for the Work of the Project shall not be paid less than the minimum hourly rate of wage for such workers as detailed in the Specifications for the Contract. For CM/GC contracts, the "prevailing rate of wage" shall mean the prevailing wage rate in effect at the time the CM/GC contract "becomes a public works contract" as defined in OAR 839-025-0020(6), which prevailing rates shall be incorporated by attachment or reference in Guaranteed Maximum Price Amendment or, if applicable, the Early Work Amendment to the CM/GC contract. Pursuant to ORS 279C.840, the Contractor shall keep the prevailing wage rate for the Project posted in a conspicuous and accessible place in or about the Project. Copies of these wage rates are available from the Commissioner of the Bureau of Labor and Industries without charge. The Contractor shall also post a description of provided health and welfare and/or pension plans in the same place. In addition to the description of the plans, the notice shall contain information on how and where to make claims and where to obtain further information. The Contractor shall, and shall cause all subcontractors at all tiers to, timely comply with the requirements of ORS 279C.845. Contractor shall indemnify, defend, protect and hold harmless the Owner from any violation of or noncompliance with the prevailing wage laws (ORS 279C.800 et seq) by Contractor or any subcontractor at any tier.

**3.2 PUBLIC WORKS BOND.** Before starting the Work, Contractor and every Subcontractor shall file with the Construction Contractors Board a public works bond in accordance with ORS 279C.836, unless the Contractor or Subcontractor has elected not to file a public works bond under ORS 279C.836(7) or (8) or is exempt under ORS 279C.836(4) or (9). Before permitting a Subcontractor to start the Work, Contractor shall verify that the Subcontractor has filed a public works bond as required by ORS 279C.836, has elected not to file a public works bond under ORS 279C.836(7) or (8) or is exempt under ORS

279C.836(4) or (9). Contractor shall also ensure that each subcontract entered into by a Subcontractor for the Project shall include a clause obligating each Subcontractor to comply with the requirements of this Section 3.2, such that all subcontracts at all tiers include a requirement to comply with this Section 3.2.

4. **COMPLIANCE WITH LAWS/TAX LAWS.** Contractor shall comply with all applicable federal, state, and local laws, statutes, codes, regulations, rules, orders and rulings as well as all applicable construction industry standards, including without limitation those governing labor, materials, equipment, construction procedures, safety, health, sanitation and the environment. Contractor agrees to indemnify, hold harmless, reimburse, and defend Owner from and against any penalties or liabilities arising out of violations of such obligations by Contractor or its Subcontractors at any tier. Contractor must also comply with all Oregon tax laws and shall submit a certification of such compliance in accordance with ORS 305.385(6).

5. **CONTRACTOR'S EMPLOYEES AND SUBCONTRACTORS.**

5.1 **EMPLOYEE DRUG TESTING PROGRAM.** The Contractor shall demonstrate to the Owner, in a manner acceptable to the Owner, that the Contractor has initiated, and shall maintain through the completion of the Work of the Project, an employee drug testing program.

5.2 **WORK DAY/WORK WEEK.** No person shall be required or permitted to labor more than 10 hours in any one day, or 40 hours in any one week, except in cases of necessity or emergency or when the public policy absolutely requires it, in which event, the person so employed for excessive hours shall receive at least time and a half pay for (1) all overtime in excess of eight hours in any one day or 40 hours in any one week when the work week is five consecutive days, Monday through Friday; or (2) all overtime in excess of 10 hours in any one day or 40 hours in any one week when the work week is four consecutive days, Monday through Friday; and (3) all work performed on Saturday and on any legal holiday specified in ORS 279C.540.

5.3 **NOTICE OF REQUIRED WORK HOURS.** The Contractor and each Subcontractor must give notice to its employees in writing, either at the time of hire or before commencement of Work, or by posting a notice in a location frequented by its employees, of the number of hours per day and days per week that the employees may be required to work.

5.4 **CLAIMS FOR OVERTIME.** Any worker employed by the Contractor shall be foreclosed from the right to collect for any overtime provided in ORS 279C.540 unless a claim for payment is filed with the Contractor within 90 days from the completion of the Contract, provided the Contractor has: (1) caused a circular clearly printed in boldfaced 12-point type and containing a copy of this Section 5.4 to be posted in a prominent place alongside the door of the timekeeper's office or in a similar place that is readily available and freely visible to any or all workers employed on the Work; and (2) maintained such circular continuously posted from the inception to the completion of the contract on which workers are or have been employed.

5.5 **WORKERS' COMPENSATION.** All employers, including Contractor, that employ subject workers who work under the Contract in the State of Oregon shall comply with ORS 656.017 and provide the required Workers' Compensation coverage, unless such employers are exempt under ORS 656.126. Contractor shall ensure that each of its Subcontractors complies with these requirements.

5.6 **PROMPT PAYMENT FOR MEDICAL SERVICES.** The Contractor shall promptly, as due, make payment to any person, co-partnership, association or corporation furnishing medical, surgical and hospital care services or other needed care and attention, incident to sickness or injury, to the employees of the Contractor, of all sums that the Contractor agrees to pay for the services and all moneys and sums that the Contractor collected or deducted from the wages of employees under any law, contract or agreement for the purpose of providing or paying for the services.

5.7 **PROMPT PAYMENT BY SUBCONTRACTORS; INTEREST PENALTY.** Contractor shall include in each subcontract entered into by the Contractor (including contracts with material suppliers) the following:

(a) A payment clause that obligates the Contractor to pay the first-tier subcontractor for satisfactory performance under the subcontract within 10 days out of amounts the Owner pays to the Contractor under the Contract.

(b) A clause that requires the Contractor to provide a first-tier subcontractor with a standard form that the first-tier subcontractor may use as an application for payment or as another method by which the subcontractor may claim a payment due from the Contractor.

(c) A clause that requires the Contractor, except as otherwise provided in this paragraph, to use the same form and regular administrative procedures for processing payments during the entire term of the subcontract. The Contractor may change the form or the regular administrative procedures the Contractor uses for processing payments if the Contractor:

(A) Notifies the subcontractor in writing at least 45 days before the date on which the Contractor makes the change; and

(B) Includes with the written notice a copy of the new or changed form or a description of the new or changed procedure.

(d) An interest penalty clause that obligates the Contractor, if the Contractor does not pay the first-tier subcontractor within 30 days after receiving payment from the Owner, to pay the first-tier subcontractor an interest penalty on amounts due in each payment the Contractor does not make in accordance with the payment clause included in the subcontract under paragraph (a) of this Section. The Contractor or first-tier subcontractor is not obligated to pay an interest penalty if the only reason that the Contractor or first-tier subcontractor did not make payment when payment was due is that the Contractor or first-tier subcontractor did not receive payment from the Owner or Contractor when payment was due. The interest penalty:

(A) Applies to the period that begins on the day after the required payment date and that ends on the date on which the amount due is paid; and

(B) Is computed at the rate specified in ORS 279C.515 (Conditions concerning payment of claims by public officers, payment to persons furnishing labor or materials and complaints).

(e) a clause requiring the first-tier subcontractor to include a payment clause and an interest penalty clause that conforms to the standards of this section in each of the first-tier subcontractor's subcontracts and to require each of the first-tier subcontractor's subcontractors to include such clauses in the first-tier subcontractors' subcontracts with each lower-tier subcontractor or supplier.

**5.8 LICENSING WITH CONSTRUCTION CONTRACTORS BOARD AND LANDSCAPE CONTRACTORS BOARD.** Before commencing the Work, Contractor shall ensure that the Subcontractors are duly registered with the Oregon State Construction Contractors Board (and the State Landscape Contractors Board, if applicable), and that no Subcontractor has been declared ineligible to work on a public contract.

**5.9 FIRST-TIER SUBCONTRACTORS.** the Contractor may only engage and substitute first tier subcontractors as permitted by ORS 279C.370, 279C.585, and 279C.590.

**5.10 NO DISCRIMINATION.** Pursuant to ORS 279A.100 to ORS 279A.110, the Contractor shall not discriminate against minority, women, or emerging small business enterprises in the awarding of subcontracts. The Contractor covenants and agrees not to discriminate against any qualified employee or qualified applicant for employment because of race, creed, color, sex or national origin, and that similar provisions shall also be included by said party in any subcontract. The Contractor shall comply with the prohibition set forth in ORS 652.220 (Prohibition of discriminatory wage rates based on sex). Compliance is a material element of the Contract and a failure to comply is a breach that entitles the Owner to terminate the contract for cause.



5.11 NO PROHIBITION. The Contractor may not prohibit any of the Contractor's employees from discussing the employee's rate of wage, salary, benefits or other compensation with another employee or another person and may not retaliate against an employee who discusses the employee's rate of wage, salary, benefits or other compensation with another employee or another person.

6. MATERIAL SALVAGE. To the extent the scope of the Work for the Contract requires demolition, Contractor must salvage or recycle construction and demolition debris, if feasible and cost-effective.

7. COMPOSTING. To the extent the scope of the Work for the Contract requires lawn and landscape maintenance, the Contractor must compost or mulch yard waste material at an approved site, if feasible and cost-effective.

8. RECYCLED MATERIALS. The Contractor, in performance of the Work, shall give preference to the procurement of goods manufactured from recycled materials.

9. ENVIRONMENTAL AND NATURAL RESOURCES LAWS. Pursuant to ORS 279C.525, the following is a list of Federal, State, and Local agencies that have enacted ordinances, rules or regulations dealing with the prevention of environmental pollution and the preservation of natural resources that may affect the performance of the Contract. The following list may not include all such agencies that have enacted ordinances, rules or regulations relating to the environmental pollution and preservation of natural resources.

Federal Agencies:

Agriculture, Dept. of  
Forest Service  
Natural Resource Conservation Service  
Defense, Dept. of  
Army Corps of Engineers  
Coast Guard  
Environmental Protection Agency  
Interior, Dept. of  
U.S. Fish and Wildlife Service  
Bureau of Land Management  
Bureau of Indian Affairs  
Bureau of Reclamation  
Labor, Dept. of  
Occupational Safety and Health Administration  
Transportation, Dept. of  
Federal Highway Administration

State Agencies:

Agriculture, Dept. of  
Consumer and Business Services Dept.  
Oregon Occupational Safety and Health Division  
Environmental Quality, Dept. of  
Fish and Wildlife, Dept. of  
Forestry, Dept. of  
Geology and Mineral Industries, Dept. of  
Human Services, Dept. of  
Land Conservation and Development, Dept. of  
Natural Resources, Dept. of  
State Fire Marshall  
State Lands, Dept. of  
Water Resources Department

Local Agencies:

City Councils  
Circuit Courts  
County Commissioners, Boards of  
Fire Districts  
Planning Commissions

10. CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

Contractor shall comply with all applicable standards, orders, or regulations issued pursuant to the Clean Air Act of 1970 (42 U.S.C. 1867 et seq.) and the Federal Water Pollution Control Act (33 U.S.C. 1251 et seq.) as amended. Violations shall be reported as required by law.

11. RETAINAGE. The withholding of retainage by the Contractor or Subcontractor shall be in accordance with ORS 279C.550 to ORS 279C.570.

12. LIENS. The Contractor shall not permit any lien or claim to be filed or prosecuted against the state, county, school district, municipality, municipal corporation or subdivision thereof, on account of any labor or material furnished.

13. NONRESIDENT. If the Contractor is a "nonresident bidder" as defined in ORS 279A.120, the Contractor shall comply with the reporting requirements of that statute.

14. NOTICE OF CLAIM ON BOND. The notice of claim required by ORS 279C.600 must be sent by registered or certified mail or hand delivered no later than 180 days after the day the person last provided labor or furnished materials or 180 days after the worker listed in the notice of claim by the Commissioner of the Bureau of Labor and Industries last provided labor. The notice may be sent or delivered to the Contractor or Subcontractor at any place the Contractor or Subcontractor maintains an office or conducts business or at the residence of the Contractor or Subcontractor. If the claim is for a required contribution to a fund of any employee benefit plan, the notice required by ORS 279C.600 must be sent or delivered within 200 days after the employee last provided labor or materials. The notice shall be in writing substantially as follows:

To (here insert the name of the Contractor or Subcontractor and the name of the Owner):

Notice hereby is given that the undersigned (here insert the name of the claimant) has a claim for (here insert a brief description of the labor or materials performed or furnished and the person by whom performed or furnished; if the claim is for other than labor or materials, insert a brief description of the claim) in the sum of (here insert the amount) dollars against the (here insert public works bond or payment bond, as applicable) taken from (here insert the name of the principal and, if known, the surety or sureties upon the public works bond or payment bond) for the work of (here insert a brief description of the work concerning which the public works bond or payment bond was taken). Such material or labor was supplied to (here insert the name of the Contractor or Subcontractor).

\_\_\_\_\_(here to be signed)

[15. ADD ANY NECESSARY CONTRACTOR COMPLIANCE/REPORTING PROVISIONS FOR AGENCY'S WMBE GOALS PROGRAM UNDER ORS 200.090]

## EXHIBIT E

### INSURANCE REQUIREMENTS

**1. Insurance Coverages.** The Contractor shall procure and maintain (and, unless the Owner permits otherwise in writing, shall cause all Subcontractors to procure and maintain) at the Contractor's expense during the period of performance and thereafter as required below the following insurance from one or more companies authorized to do business in the State of Oregon with a policyholder's rating of not less than A-IX in the most recent edition of *Best's Rating Guide*. Except as approved otherwise by the Owner in advance, such insurance shall protect against claims which arise out of or relate to all of the Contractor's (and such Subcontractors') services under the Agreement, whether performed by the Contractor or a Subcontractor or consultant or a person or entity for which either of them may be responsible. The insurance coverages required by this Paragraph 1 shall be written on an occurrence basis, except the Professional Liability Insurance.

**1.1 Workers' Compensation Insurance,** if required by law, with statutory limits.

**1.2. Employer's Liability Insurance,** if employees are employed for other than secretarial or bookkeeping services, with a limit of not less than \$500,000.

**1.3. Commercial General Liability Insurance,** applicable to all premises and operations, including Bodily Injury, Property Damage, Personal Injury, Contractual Liability, Independent Contractors, Products and Completed Operations, Broad Form Property Damage (including Completed Operations), Pollution Liability (coverage shall apply to both sudden and gradual pollution conditions), and coverage for explosion, collapse and underground hazards, with limits of not less than \$1,000,000 per occurrence, \$2,000,000 aggregate applicable specifically to the Project, \$1,000,000 personal and advertising injury and \$1,000,000 Products and Completed Operations.

**1.4. Business Automobile Liability Insurance,** applicable to owned, non-owned and hired automobiles, with a limit of not less than \$1,000,000 combined single limit each accident; .

**1.5. Professional Liability Insurance,** covering performance of professional services by the Contractor or any Subcontractor or professional firm at any tier (e.g. for bidder-design or design-build components), whether or not performed by a licensed architect or engineer, with policy limits of not less than \$1,000,000 per claim and \$2,000,000 in the aggregate.

**1.6 Pollution Liability Insurance,** covering the Contractor's liability for a third-party bodily injury and property damage arising from pollution conditions caused by the Contractor while performing their operations under the contract. The insurance coverage shall apply to sudden and accidental pollution events. Any coverage restriction as to time limit for discovery of a pollution incident and/or a time limit for notice to the insurer must be accepted by the Owner. The insurance coverage shall also respond to cleanup cost. This coverage may be written in combination with the commercial general liability insurance or professional liability insurance. The policy's limits shall not be less than \$1,000,000 each loss / \$1,000,000 aggregate. The policy shall be endorsed to state that the general aggregate limit of liability shall apply separately to this contract. Any self- insured retention / deductible amount shall be submitted to the Owner for review and approval.

**1.7 Asbestos/hazardous materials Abatement** (only applicable to Asbestos/hazardous materials abatement Contractors): General Liability policy shall be written on a form that meets the following criteria, and must be ASBESTOS SPECIFIC as follows:

- (a) A full occurrence form, or
- (b) A limited occurrence form with at least a three (3) year tail, or
- (c) A claims made form with a three (3) year tail.

**1.8 True Umbrella Policy,** which provides excess limits over the primary layer, in an amount not less than \$5,000,000.

**1.9 Subcontractors:** The Contractor shall require all subcontractors to provide and maintain General Liability, Auto Liability, Professional Liability (as applicable), and Workers' Compensation insurance with coverage's equivalent to those required of the General Contractor in this Agreement. The Contractor shall require certificates of insurance from all subcontractors as evidence of coverage.

**1.10 Exceptions or Waivers:** Any exception of waiver of these requirements shall be subject to review and written approval from the Owner.

**2. Deductibles.** The Contractor shall pay all deductibles on all policies required by Paragraph 1.

**3. Waivers of Subrogation Re Liability Insurance.** The Workers' Compensation and Employer's Liability policies shall be subject to a waiver of subrogation in favor of Owner and its members, partners, officers, directors, agents and employees, and the successors in interest of the foregoing.

**4. Cross-Liability Coverages.** The Commercial General Liability and Automobile Liability policies shall provide cross-liability coverages as would be achieved under the standard International Organization for Standardization ("ISO") separations of insureds clause.

**5. Additional Insureds.** The Commercial General Liability and Automobile Liability policies shall name the Owner and its officers, directors, agents and employees, and the successors in interest of the foregoing, as additional insureds, using ISO additional insureds endorsement CG 20 10 11 85 or a substitute providing equivalent coverages. Such coverages provided to the additional insureds shall (a) be primary and noncontributory with respect to any insurance or self-insurance retention of the additional insureds, including but not limited to any Excess Liability coverage maintained by the additional insureds, (b) provide the same types and extents of coverages as the coverages provided to the primary insured, and shall not be limited to the "vicarious liability" of the additional insureds, (c) waive all rights of subrogation against the additional insureds, (d) cover all additional insureds that are a partnership or joint venture, if any, as "Named Insureds" as expressly stated in endorsements and (e) be maintained for the same durations as the coverages provided to the primary insured, including but not limited to the continuation of the Products and Completed Operations coverage until three (3) years after final payment to the Owner's prime contractor on the Project, and shall not be limited to "ongoing operations". Notwithstanding the foregoing, this Paragraph shall not be construed to require the Contractor to provide insurance coverage of the additional insureds in a way or to an extent that results in a violation of ORS § 30.140.

**6. Duration of Coverages.** The insurance coverages required by Paragraph 1 shall be written on an occurrence basis, except the Professional Liability Insurance. The Professional Liability policy shall provide for a retroactive date of placement prior to or coinciding with the date of commencement under the Agreement. All other policies shall be in effect as of the date of commencement of the Contractor's services under the Agreement. All policies shall be maintained and remain in effect until one (1) year after Final Completion and thereafter when the Contractor is assisting or advising the Owner regarding the correction of defective or nonconforming Work; provided that the Products and Completed Operations policy and the Professional Liability policy shall remain in effect until three (3) years after final payment to the Owner's prime contractor on the Project. The Contractor shall notify the Owner of any claims against the Professional Liability policy, in which event the Owner shall have the right to require the Contractor at its expense to obtain additional Professional Liability Insurance in order to restore the required coverage available for the Project.

**7. Builder's Risk Insurance.**

The Contractor shall obtain Builder's Risk Insurance as described below:

**(1)** The Contractor shall purchase and maintain in force during the term of this Contract, at its own expense, Builder's Risk insurance in an amount equal to the Contract Amount, including any subsequent modifications for the entire project at the site on a replacement cost basis, including covering all costs needed to repair the structure or work based on the value figured at the time of rebuilding or repairing, not at the time of loss. Such coverage shall be maintained, unless otherwise provided in the Contract Documents, or otherwise agreed to in writing by all persons and entities who are beneficiaries of such insurance, until final

payment has been made or until no person or entity other than the Owner has insurable interest in the property to be covered, whichever is earlier. The Builder's Risk insurance shall include interests of the Owner, the Contractor, Subcontractors and sub-tier contractors in the project.

(2) **Special Covered Cause of Loss Form.** The Contractor's Builder's Risk Coverage shall be on a special covered cause of loss form and shall include theft, vandalism, malicious mischief, collapse, false-work, temporary buildings and debris removal including demolition, increased cost of construction, architect's fees and expenses, flood and earthquake coverage, materials and equipment in transit, and all below and above ground structures, water and sewer mains. Other coverage may be required if provided in contract documents. Coverage shall be written for 100% of the completed value (replacement cost basis) of the work being performed.

(3) **Amendments and Provisions.** The Contractor's Builder's Risk shall also include the following amendments and provisions.

a. **Waiver of Subrogation.** Waiver of subrogation against all parties named as insured, to the extent the loss is covered;

b. **Beneficial Occupancy Clause.** The policy shall specifically permit partial or beneficial occupancy at or before substantial completion or final acceptance of the entire work. The Contractor shall take reasonable steps to obtain any necessary consent of the insurance company or companies and agrees to take no action, other than upon mutual written consent, with respect to occupancy or use of the work that could lead to cancellation, lapse or reduction of insurance;

c. **Equipment Breakdown Coverage.** Equipment breakdown coverage (aka boiler & machinery coverage) shall be provided that specifically covers insured equipment during installation and testing;

d. **Interior Damage.** Any clause that excludes recovery of damage to the interior of building shall be deleted. The Builder's Risk policy shall provide for recovery for damage to the interior of a building if caused by perils insured against in the Builder's Risk Policy;

e. **Design Error.** The Builder's Risk policy shall not exclude coverage of damages caused by design error;

f. **Settlement, Cracking, Etc.** The Builder's Risk policy shall cover settling, cracking, shrinking or expansion (including coverage for loss resulting from settling, cracking, shrinking or expansion) of foundation walls, floors and other parts of the structure; and

g. **Deductible.** Any deductible shall not exceed \$50,000 for each loss.

(4) **Builder's Risk Installation Floater.** If approved in writing by the Owner's Risk Manager, the Contractor may obtain a Builder's Risk Installation Floater in lieu of Builder's Risk Insurance at the Contractor's expense. The Contractor shall keep the Builder's Risk Installation Floater in effect during the term of this Contract for the value of materials and equipment, on a replacement cost basis, including covering all costs needed to repair the structure or Work (including overhead and profit) based on the values figured at the time of rebuilding or repairing, not at the time of loss. Such coverage shall be maintained, unless otherwise provided in the Contract Documents or otherwise agreed to in writing by all persons and entities who are beneficiaries of such insurance, until final payment has been made or until no person or entity other than the Owner has an insurable interest in the property to be covered, whichever is earlier. The Builders' Risk Installation Floater shall include interest of the Owner, The Contractor, Subcontractors and sub-tier Contractors in the project. The Builders' Risk Installation Floater shall be on a Special Covered Cause of Loss Form and shall include theft, vandalism, malicious mischief, faulty workmanship, labor, materials and equipment to be installed. Other coverages may be required if provided in the Contract Documents. The Builders' Risk Installation Floater shall also provide a Waiver of Subrogation against all parties named as insured, but only to the extent the loss is covered. Coverages shall be written for 100% of the completed value (replacement cost basis including labor and materials) of the work being performed or other limit as specified in the Contract Documents. Coverage shall extend to when project materials are in off-site storage and while in transit.

(5) **Insured Loss.** The owner shall have sole power and authority to adjust and settle a loss with insurers. A loss insured under the Builder's Risk Insurance or Builder's Risk Installation Floater shall be adjusted by the Owner and any payments or settlements shall be made payable to the Owner for the insureds, as their interests may appear. The Owner shall be entitled to full payment of its loss from the insurance proceeds before payment of the remainder to any other beneficiaries of the policy. The Contractor shall pay Subcontractors their just share of remaining insurance proceeds received by the Contractor, and by appropriate agreements, written where legally required for validity, shall require Subcontractors make payments to the Sub-subcontractors in similar manner.

(6) **Deductible.** Payment of the deductible on the Builders Risk policy claims is the responsibility of the Contractor and is not subject to reimbursement by the Owner. The Contractor promptly shall pay the deductible (or if the claim is less than the deductible, the amount of the claim) promptly and without offset or deduction. If the Contractor does not do so, the Owner may, in addition to other remedies, deduct and offset the amount of the deductible from the Contract Sum.

8. **Proof of Insurance.** The Contractor shall file with Owner, upon execution of the Agreement, certificates of insurance acceptable to the Owner as well as copies of all insurance policies, with all riders and endorsements, all separate exclusions, conditions and waivers, and all other amendatory documents attached, evidencing the insurance required of the Contractor by this Exhibit E. No progress payment will be due until all such Certificates and policies are furnished. All policies and certificates must be signed copies and shall contain a provision that coverages afforded under the policies cannot be materially altered (i.e., the coverage's reduced, the limits decreased, or the additional insured removed), allowed to expire, or cancelled without first giving 30 days' prior written notice to the Owner. The Contractor shall furnish to the Owner copies of any subsequently issued endorsements amending, modifying, altering, or restricting coverage of limits. Furthermore, such policies or certificates shall verify that the policy contains coverage for blanket contractual liability including both oral and written contracts and acknowledge the indemnification provisions and liability coverages called for by this Agreement. If any of the required coverages are to renew during the period when such coverage is to remain in effect, or are required to remain in force after final payment to the Owner's prime contractor on the Project, an additional certificate evidencing continuation of such coverage shall be submitted upon renewal or with the Contractor's final invoice.

9. **Effect of No or Insufficient Insurance.** The Contractor's failure to comply with the requirements of this Exhibit E shall constitute a material breach of the Agreement entitling the Owner to terminate the Agreement for cause. In the alternative, the Owner in its sole discretion may purchase the insurance required of, but not obtained or maintained, by the Contractor pursuant to this Exhibit E and charge such costs thereof to the Contractor or deduct the costs thereof from the Contract Sum. The Owner's rights under this Paragraph shall be in addition to, and without waiver of, its other rights and remedies under the Agreement or applicable law.

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

1. **Limitation of This Exhibit E.** Nothing in this Exhibit E shall negate, abridge or reduce the Contractor's responsibilities or liabilities under the Agreement or applicable law, the meaning and effect of the provisions of this Exhibit E being limited to setting out the Contractor's express obligations with respect to

insurance. By requiring insurance, the Owner does not guarantee that the insurance is sufficient to cover all the risks the Contractor may face. The Contractor's liability is not limited to insurance.

2. The Contractor shall obtain, at its own expense, the minimum insurance coverage described in this Exhibit and maintain that coverage until final acceptance of the entire Project, and through the stated completed operations period as applicable. By requiring such minimum insurance, the Owner does not guarantee that the insurance is sufficient to cover all the risks the Contractor may face. The Contractor's liability is not limited to insurance. The insurance carried by the Contractor shall be the primary coverage and non-contributory, and any insurance maintained by the Owner is excess and in any event solely for damages or losses for which the Owner is responsible.

3. The Owner's specification or approval of the insurance in this Contract or of its amount shall not relieve or decrease the liability of the Contractor under the Contract documents or otherwise. Coverage's are the minimum to be provided and are not limitations of liability under the Contract, indemnification, or applicable law provisions. The Contractor may, at its expense, purchase larger coverage amounts.

4. Contract Sum. The Contract Sum includes the cost of any insurance required by the Contract Documents.