

# **JNU SAND SHED DEMOLITION**

**Contract No. BE20-187**

File No. 1182



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**END OF SECTION 00 0005**

**SECTION 00 0300 NOTICE INVITING BIDS**

**OBTAINING CONTRACT DOCUMENTS.** The Contract Documents are entitled:

**JNU Sand Shed Demolition  
CBJ Contract No. BE20-187**

The Contract Documents may be downloaded from the CBJ Engineering Department webpage at: [www.juneau.org/engineering](http://www.juneau.org/engineering).

**PRE-BID TELECONFERENCE.** Prospective Bidders are encouraged to attend a pre-Bid teleconference to discuss the proposed WORK, which will be conducted by the OWNER, at 10:00 a.m. on August 12, 2020, via conference call. The object of the conference is to acquaint Bidders with the project and bid documents. Prospective Bidders intending to participate shall notify [contracts@juneau.org](mailto:contracts@juneau.org) by 4:30 p.m., August 11, 2020, to obtain the call-in instructions.

**SITE VISIT.** Prospective Bidders are encouraged to attend a site visit, which will be held at 1:00 p.m. on August 12, 2020. Prospective Bidders can park next to the JNU job trailer along the west side of the old sand shed, and will be escorted through Gate I at 1pm.

**DESCRIPTION OF WORK.** This Project will consist of demolition of the old JNU Sand Shed, which is a steel framed building of approximately 18,000 sf. Work includes construction of a new wall to support the adjacent building.

**COMPLETION OF WORK.**

<u>Work Description</u>	<u>Completion Date</u>
Substantial Completion	December 31, 2020
Final Completion	Within 30 days of Substantial Completion

**DEADLINE FOR BIDDER QUESTIONS:** 4:30 p.m. on August 19, 2020.

**DEADLINE FOR BIDS:** Sealed bids must be received by the Purchasing Division **prior to 2:00 p.m., Alaska Time on August 26, 2020**, or such later time as may be announced by addendum at any time prior to the deadline. Bids will be time and date stamped by the Purchasing Division, which will establish the official time of receipt of bids. Bids will be opened immediately thereafter, unless otherwise specified. Bidders may attend the bid opening on the conference call line 907-713-2140, with participant ID code 258358.

Bid documents delivered in person\* or by **courier** service must be delivered to:

Bid documents delivered by **U.S. Postal Service** must be mailed to:

**PHYSICAL LOCATION:**  
City and Borough of Juneau, Purchasing Division  
105 Municipal Way, Room 300  
Juneau, AK 99801

**MAILING ADDRESS:**  
City and Borough of Juneau, Purchasing Division  
155 South Seward Street  
Juneau, AK 99801

\* A face covering must be worn in the 105 Municipal Way building per the CBJ Emergency Ordinance No. 2020-34

**SECTION 00 0300 - NOTICE INVITING BIDS**

Please affix the label below to outer envelope in the lower left hand corner.

<b>IMPORTANT NOTICE TO BIDDER</b>		
<b>To submit your Bid:</b>		
1. Print your company name and address on the upper left corner of your envelope.		
2. <b>Complete this label and place it on the lower left corner of your envelope.</b>		
<b>S E A L E D</b>	<b>BID NUMBER:</b>	<b>B I D</b>
	<b><u>BE20-187</u></b>	
	<b>SUBJECT:</b>	
	<b><u>JNU Sand Shed Demolition</u></b>	
	<b>DEADLINE DATE:</b>	
	<b><u>PRIOR TO 2:00PM ALASKA TIME</u></b>	

**Mailing/delivery times to Alaska may take longer than other areas of the U.S.** Late bids will not be accepted and will be returned.

**SITE OF WORK.** The Work will occur at the old sand shed building on JNU Airport property, at 8999 Yandukin Drive, in Juneau, Alaska. The site is within the secure boundary of the airport. A portion of the Work will occur on an adjacent privately owned property. Close coordination with Owner is required throughout the Work.

**BIDDING, CONTRACT, or TECHNICAL QUESTIONS.** All communications relative to this Work, prior to opening Bids, shall be directed to the following:

Greg Smith, Contract Administrator  
CBJ Engineering Department, 3<sup>rd</sup> Floor, Marine View Center  
greg.smith@juneau.org  
Telephone: (907) 586-0873  
Fax: (907) 586-4530

**DBE GOAL.** The Disadvantaged Business Enterprise goal for this project is 4.22%.

**BID SECURITY.** Each Bid shall be accompanied by a certified or cashier's check or Bid Bond, in the amount of 5% percent of the Bid, payable to the City and Borough of Juneau, Alaska, as a guarantee that the Bidder, if its Bid is accepted, will promptly execute the Agreement. A Bid shall not be considered unless one of the forms of Bidder's security is enclosed with it.

**CONTRACTOR'S LICENSE.** All contractors are required to have a current Alaska Contractor's License, prior to submitting a Bid, and a current Alaska Business License prior to award. Since this Project has federal funding, however, the Contractor and all Subcontractors will be required to have a current Alaska Contractor's License and a current Alaska Business License prior to Notice of Intent to Award.

**BID TO REMAIN OPEN.** The Bidder shall guarantee the Bid for a period of 90 Days from the date of Bid opening. Any component of the Bid may be awarded anytime during the 90 Days.

**SECTION 00 0300 - NOTICE INVITING BIDS**

**OWNER'S RIGHTS RESERVED.** The Owner reserves the right to reject any or all Bids, to waive any informality in a Bid, and to make award to the lowest responsive, responsible Bidder as it may best serve the interests of the Owner.

**OWNER: City and Borough of Juneau**

By:   
\_\_\_\_\_  
Greg Smith, CBJ Contract Administrator

5/3/2020  
Date

**END OF SECTION 00 0300**

## SECTION 00 2113 - INSTRUCTIONS TO BIDDERS

**1.0 DEFINITIONS.** Terms used in these Instructions to Bidders and the Notice Inviting Bids have the meanings assigned to them in the General Conditions, 00 7000. The term "Bidder" means one who submits a bid directly to the Owner, as distinct from a sub-bidder, who submits a bid to a Bidder.

### **2.0 INTERPRETATIONS AND ADDENDA.**

- A. **INTERPRETATIONS.** All questions about the meaning or intent of the Contract Documents are to be directed to the Engineering Contracts Administrator. Interpretations or clarifications considered necessary by the Engineering Contracts Administrator in response to such questions will be issued by Addendum, mailed, faxed, or delivered to all parties recorded by the Engineering Contracts Administrator, or Owner, as having received the contract documents. Questions received less than seven days prior to the deadline for bids may not be answered. Only questions answered by formal written Addendum will be binding. Oral and other interpretations or clarifications will be without legal effect.
- B. **ADDENDA.** Addenda may be issued to modify the Contract Documents as deemed advisable by the Owner. Addenda may be emailed and posted to the CBJ Engineering Department website. In any event, notification of addendum issuance will be emailed to plan holders. The Owner will make all reasonable attempts to ensure that all plan holders receive notification of Addenda, however, it is strongly recommended by the Owner that Bidders independently confirm the contents, number, and dates of each Addendum prior to submitting a bid.

**3.0 FAIR COMPETITION.** More than one bid from an individual, firm, partnership, corporation, or association under the same or different names will not be considered. If the Owner believes that any Bidder is interested in more than one bid for the Work contemplated, all Bids in which such Bidder is interested will be rejected. If the Owner believes that collusion exists among the Bidders, all bids will be rejected.

**4.0 RESPONSIBILITY OF BIDDERS.** Only responsive bids from responsible Bidders will be considered. A bid submitted by a Bidder determined to be not responsible may be rejected. The Owner may find a bidder to be not responsible for any one of the following reasons, but is not limited in its responsibility analysis to the following factors:

- A. Failure to submit "evidence of competency" and "evidence of financial responsibility" to the Owner at the time of bid opening, as described in 00 4310.
- B. Evidence of bid rigging or collusion;
- C. Fraud or dishonesty in the performance of previous contracts;
- D. Record of integrity;
- E. More than one bid for the same work from an individual, firm, or corporation under the same or different name;
- F. Unsatisfactory performance on previous or current contracts;
- G. Failure to pay, or satisfactorily settle, all bills due for labor and material on previous contracts;



## SECTION 00 2113 - INSTRUCTIONS TO BIDDERS

- H. Uncompleted work that, in the judgment of the Owner, might hinder or prevent the bidder's prompt completion of additional work, if awarded;
- I. Failure to reimburse the Owner for monies owed on any previous contracts;
- J. Default under previous contracts;
- K. Failure to comply with any qualification requirements of the Owner; special standards for responsibility, if applicable, will be specified. These special standards establish minimum standards or experience required for a responsible Bidder on a specific contract;
- L. Engaging in any activity that constitutes a cause for debarment or suspension under the CBJ Procurement Code 53.50 or submitting a bid during a period of debarment;
- M. Lack of skill, ability, financial resources, or equipment required to perform the contract;
- N. Lack of legal capacity to contract.
- O. Bidders must be registered as required by law and in good standing for all amounts owed to the Owner per Paragraph 19.0 of this Section.
- P. Failure to submit a complete Subcontractor Report as required in section 00 5100 – Subcontractor Report.

Nothing contained in this section deprives the Owner of its discretion in determining the lowest responsible Bidder. Before a bid is considered for award, a Bidder may be requested to submit information documenting its ability and competency to perform the Work, according to general standards of responsibility and any special standards that may apply. It is Bidder's responsibility to submit sufficient, relevant, and adequate information. Owner will make its determination of responsibility and has no obligation to request clarification or supplementary information.

**5.0 NON-RESPONSIVE BIDS.** Only responsive bids will be considered. Bids may be considered non-responsive and may be rejected. Some of the reasons a bid may be rejected for being non-responsive are:

- A. If a bid is received by the CBJ Purchasing Division after the deadline for bids.
- B. If the bid is on a form other than that furnished by the Owner, or legible copies thereof; or if the form is altered or any part thereof is detached; or if the bid is improperly signed.
- C. If there are unauthorized additions, conditional or alternate bids, or irregularities of any kind which may tend to make the bid incomplete, indefinite, ambiguous as to its meaning, or in conflict with the Owner's bid document.
- D. If the Bidder adds any unauthorized conditions, limitations, or provisions reserving the right to accept or reject any award, or to enter into a contract pursuant to an award. This does not exclude a bid limiting the maximum gross amount of awards acceptable to any one Bidder at any one bid opening, provided that any selection of awards will be made by the Owner.
- E. If the bid does not contain a Unit Price for each Unit Price pay item listed, except in the

## SECTION 00 2113 - INSTRUCTIONS TO BIDDERS

case of authorized alternate pay items.

- F. If the Bidder has not acknowledged receipt of each Addendum.
- G. If the Bidder fails to furnish an acceptable bid guaranty with the bid.
- H. If any of the Unit Prices bid are excessively unbalanced (either above or below the amount of a reasonable bid) to the potential detriment of the Owner.
- I. If a Bid Modification does not conform to Paragraph 13.0 of this section.
- J. If all Bidding Forms are not submitted at time of Bid.

### **6.0 BIDDER'S EXAMINATION OF CONTRACT DOCUMENTS AND SITE.** It is the responsibility of each Bidder before submitting a bid:

- A. To examine thoroughly the Contract Documents and other related data identified in the bidding documents. This includes, but is not limited to :
  - 1. Visiting the site to become familiar with and to satisfy the Bidder as to the local and specific conditions that may affect cost, progress, or performance of the Work,
  - 2. Considering federal, state and local laws and regulations that may affect cost, progress, or performance of the Work,
  - 3. Studying and carefully correlating the Bidder's observations with the Contract Documents, and other related data; and
  - 4. Notifying the Owner of all conflicts, errors, or discrepancies in or between the Contract Documents and such other related data.
- B. To make or obtain any additional examinations, investigations, explorations, tests, and studies and obtain any additional information and data that pertain to the physical conditions (surface, subsurface, and underground utilities) at or contiguous to the site or otherwise that may affect cost, progress, or performance of the Work and that the bidder deems necessary to determine its Bid for performing the Work in accordance with the time, price, and other terms and conditions of the contract documents.
- C. To request access to the project site (other than times noted in the Notice Inviting Bids) for purposes of obtaining additional information as described above at least ten days in advance of the advertised deadline for bids. The Owner will provide access and security escort to the Bidder, who shall pay for all costs associated with such escort. The Bidder's investigations shall be limited to actions that do not require permits or authorizations from the Federal Aviation Administration or similar agencies.

The submission of a bid shall be prima facie evidence that the Bidder has made such examination and is satisfied as to the conditions to be encountered in performing the Work and as to the requirements of the contract documents. The submission of a bid will constitute an incontrovertible representation by the Bidder that the Bidder has complied with every requirement of this section, "Bidder's Examination of Contract Documents and Site" herein, that without exception the Bid is premised upon performing the Work required by the Contract Documents and such means, **methods, techniques, sequences, or procedures of construction as may be indicated in or required** by the Contract Documents, and that the Contract Documents are sufficient in scope and

## SECTION 00 2113 - INSTRUCTIONS TO BIDDERS

detail to indicate and convey understanding of all terms and conditions for performance of the Work.

### 7.0 BIDDING FORMS

- A. The Bid (00 4113), Bid Schedule (00 4114), Bid Security (00 4313), and other documents required at the time of bid submission shall be made on forms provided, or on legible and complete copies thereof. The specific forms and documents required for bidding this project are described in the Bid Form (00 4113).
- B. All blanks on the Bid (00 4113), Bid Schedule (00 4114), Bid Security (00 4313), and other documents required at the time of bid submission must be signed in ink with all names legibly printed or typed below the signature.
- C. Bids by corporations must be executed in the corporate name by the president, a vice-president (or other corporate officer). The corporate address and state of incorporation must appear below the signature.
- D. Bids by partnerships must be executed in the partnership name and be signed by a managing partner, and the official address of the partnership must appear below the signature.
- E. The bid shall contain an acknowledgment of receipt of all Addenda, the numbers of which shall be filled in on the bid form. Failure to acknowledge Addenda may render bid non-responsive and may cause its rejection.
- F. The address to which communications regarding the bid are to be directed must be shown.

**8.0 SUBSTITUTE OR "OR-EQUAL" ITEMS.** Requests for substitution or consideration of "or equal" items is not allowed during the bid period. The procedure for the submittal of substitute or "or-equal" products during execution of the Work is specified in Section 01 2500.

**9.0 SUBMISSION OF BIDS.** The bid shall be delivered by the time and to the place stipulated in Section 00 0300 - Notice Inviting Bids. It is the Bidder's sole responsibility to see that its bid is received in proper time. Oral, telegraphic, emailed, or faxed bids will not be considered. The envelope enclosing the sealed bids shall be plainly marked in the upper left-hand corner with the name and address of the Bidder and shall also include the label included in Section 00 0300 – Notice Inviting Bids. The bid security shall be enclosed in the same envelope with the bid.

**10.0 BID SECURITY, BONDS, AND INSURANCE.** Each bid shall be accompanied by a certified, or cashier's check, or approved Bid Bond (00 4313) in an amount of at least 5 percent of the total bid price. The "total bid price" is the amount of the Base Bid, plus the amount of alternate bid items, if any, that total maximum amount for which the contract could be awarded. Said check or bond shall be made payable to the Owner and shall be given as a guarantee that the Bidder, if offered the Work, will enter into an Agreement with the Owner, and will furnish the necessary insurance certificates, Payment Bond, and Performance Bond; each of said bonds, if required, and insurance amounts shall be as stated in the Supplementary General Conditions. In case of refusal or failure to enter into said Agreement, the check or Bid Bond, as the case may be, may be forfeited to the Owner. If the Bidder elects to furnish a Bid Bond as its bid security, the Bidder shall use the Bid Bond form bound herein, or one conforming substantially to it in form. Bid Bonds must be accompanied by a legible Power of Attorney.

## SECTION 00 2113 - INSTRUCTIONS TO BIDDERS

**11.0 RETURN OF BID SECURITY.** The Owner will return all bid security checks (certified or cashier's) accompanying such of the Bids as are not considered in making the award. All other Bid securities will be held until the Agreement has been executed. Following execution of the Agreement, all other bid security checks will be returned to the respective Bidders whose bids they accompanied and bid security bonds will be appropriately discarded.

**12.0 DISCREPANCIES IN BIDS.** In the event there is more than one pay item in a Bid Schedule, the Bidder shall furnish a price for all pay items in the schedule, and failure to do so may render the bid non-responsive and cause its rejection. In the event there are Unit Price pay items in a Bid Schedule and the amount indicated for a Unit Price pay item does not equal the product of the Unit Price and quantity, the Unit Price shall govern and the amount will be corrected accordingly, and the Bidder shall be bound by said correction. In the event there is more than one pay item in a Bid Schedule and the total indicated for the schedule does not agree with the sum of the prices bid on the individual items, the prices bid on the individual items shall govern and the total for the schedule will be corrected accordingly, and the Bidder shall be bound by said correction.

### **13.0 BID MODIFICATIONS AND UNAUTHORIZED ALTERNATIVE BIDS.**

- A. Any bidder may deliver a modification to a bid in person, by mail or fax (907-586-4561), provided that such modification is received by the Purchasing Division no later than the deadline for bids. Modifications will be time and date stamped by the Purchasing Division, which will establish the official time of receipt of the modification. The modification must not reveal the bid price but should be in the form of an addition or subtraction or other modification so that the final prices will not be known until the sealed bid is opened.

The Bid modifications shall be provided on the **Bid Modification Form** located at the end of this section. Submittal of any other form by the vendor may deem the modification unacceptable by the Owner. **A mail or fax modification should not reveal the bid price but should provide the addition or subtraction or other modification so that the final prices will not be known by the City and Borough until the sealed bid is opened.** Submitted Modification forms shall include the modification to the unit price or lump sum amount of each pay item modified.

**FAX DISCLAIMER:** It is the responsibility of the bidder to submit modifications in a timely manner. Bidders' use of a fax machine to modify their bid shall be at bidders' sole risk. The Purchasing Division will attempt to keep the fax machine in good working order but will not be responsible for bid modifications that are late due to mechanical failure, a busy fax machine, or any other cause arising from bidder's use of a fax machine, even if bidder submits a transmission report or provides other confirmation indicating that the bidder transmitted a bid modification prior to the deadline. The City will not be responsible for its failure to receive the modification whether such failure is caused by equipment or human error, or otherwise. Bidders are therefore strongly encouraged to confirm receipt of their bid modification with the Purchasing Division (907-586-5258) prior to deadline.

- B. Conditioned bids, limitations, or provisos attached to the Bid or bid modification will render it unauthorized and cause its rejection as being non-responsive. The completed Bid forms shall be without interlineations, alterations, or erasures in the printed text. All changes shall be initialed by the person signing the Bid. Alternative Bids will not be considered unless called for.

## SECTION 00 2113 - INSTRUCTIONS TO BIDDERS

**14.0 WITHDRAWAL OF BID.** Prior to the deadline for bids, the bid may be withdrawn by the Bidder by means of a written request, signed by the Bidder or its properly authorized representative. Such written request must be delivered to the place stipulated in the Notice Inviting Bids for receipt of bids.

### **15.0 AWARD OF CONTRACT.**

- A. Award of a contract, if it is awarded, will be made to the lowest responsive, responsible Bidder whose bid complies with all the requirements prescribed. Unless otherwise specified, any such award will be made within the period stated in the Notice Inviting Bids that the bids are to remain open. Unless otherwise indicated, a single award will be made for all the bid items in an individual Bid Schedule.
- B. If the Owner has elected to advertise this project with a Base Bid and Alternates, the Owner may elect to award the contract for the Base Bid, or the Base Bid in combination with one or more Alternates selected by the Owner. In either case, award shall be made to the responsive, responsible bidder offering the lowest total Bid for the work to be awarded.
- C. Low Bidder will be determined on the basis of the lowest total of the Base Bid plus combinations of Alternates in order of priority as listed below within the limits of available funding.

#### Priority No.

- 1. Base Bid and Additive Alternate No. 1
- 2. Base Bid

### **16.0 EXECUTION OF AGREEMENT.**

- A. All bids of value greater than \$1,000,000 must be approved by the CBJ Assembly. After the CBJ Assembly has approved the award and after the bid protest period, the Owner will issue a Notice of Intent to Award to the approved Bidder. The Bidder to whom award is made shall execute a written Agreement with the Owner on the Agreement form supplied in these contract documents, collect insurance, and shall furnish all certificates and bonds required by the Contract Documents within 10 calendar days from the date of the Notice of Intent to Award letter.
- B. Failure or refusal to enter into the Agreement as herein provided or to conform to any of the stipulated requirements in connection therewith shall be just cause for annulment of the award and forfeiture of the bid security. If the lowest responsive, responsible Bidder refuses or fails to execute the Agreement, the Owner may award the contract to the second lowest responsive, responsible Bidder. If the second lowest responsive, responsible Bidder refuses or fails to execute the Agreement, the Owner may award the contract to the third lowest responsive, responsible Bidder. On the failure or refusal of such second or third lowest Bidder to execute the Agreement, each such Bidder's Bid securities shall be likewise forfeited to the Owner.

**17.0 LIQUIDATED DAMAGES.** Provisions for liquidated damages, if any, are set forth in the Agreement.

## SECTION 00 2113 - INSTRUCTIONS TO BIDDERS

### 18.0 FILING A PROTEST.

- A. A Bidder may protest the proposed award of a competitive sealed bid by the City and Borough of Juneau. The protest shall be executed in accordance with CBJ Ordinance 53.50.062 PROTESTS and CBJ Ordinance 53.50.080 ADMINISTRATION OF PROTEST. The entire text of the CBJ Purchasing Ordinance can be accessed at the CBJ website, <http://www.juneau.org/law/code/code.php>, or call the CBJ Purchasing Division at (907) 586-5258 for a copy of the ordinance.
- B. Late protests shall not be considered by the CBJ Purchasing Officer.

### 19.0 CONTRACTOR'S GOOD STANDING WITH CBJ FINANCE DEPARTMENT:

Contractors must be in good standing with the CBJ prior to award, and prior to any contract renewals, and in any event no later than *seven business days* following notification by the CBJ of intent to award. **Good standing** means: all amounts owed to the CBJ are current and the Contractor is not delinquent with respect to any taxes, fees, assessment, or other monies due and owed the CBJ, or a Confession of Judgment has been executed and the Contractor is in compliance with the terms of any stipulation associated with the Confession of Judgment, including being current as to any installment payments due; and Contractor is current in all CBJ reporting obligations (such as sales tax registration and reporting and business personal property declarations). Failure to meet these requirements may be cause for rejection of your bid. To determine if your business is in good standing, or for further information, contact the CBJ Finance Department's Sales Tax Division at (907) 586-5265 for sales tax issues, Assessor's Office at (907)586-0930 for business personal property issues, or Collections Division at (907) 586-5268 for all other accounts.

### 20.0 **FEDERAL CONTRACT PROVISIONS.** Bidders shall comply with all applicable federal procurement and contract provisions including requirements in the Supplementary General Conditions and the following:

- A. **BUY AMERICAN PREFERENCES.** The Contractor agrees to comply with 49 USC § 50101, which provides that Federal funds may not be obligated unless all steel and manufactured goods used in AIP funded projects are produced in the United States, unless the FAA has issued a waiver for the product; the product is listed as an Excepted Article, Material Or Supply in Federal Acquisition Regulation subpart 25.108; or is included in the FAA Nationwide Buy American Waivers Issued list.

A Bidder must complete and submit the Buy American certification included in Section 00 4410 with its bid. The Owner will reject as nonresponsive any bid or offer that does not include a completed Certificate of Buy American Compliance. Additionally, if the apparent low bidder requests a Type 3 Waiver to Buy American Compliance, the applicable documentation must be received in accordance with Section 00 4410. Failure to submit such completed information will result in rejection as a nonresponsive bid.

- B. **CIVIL RIGHTS, TITLE VI NOTICE.** The Juneau International Airport of the City and Borough of Juneau, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 U.S.C. §§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively ensure that any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

## SECTION 00 2113 - INSTRUCTIONS TO BIDDERS

- C. DISADVANTAGED BUSINESS ENTERPRISES (DBE).** The Owner's award of this contract is conditioned upon Bidder satisfying the good faith effort requirements of 49 CFR §26.53. As a condition of bid responsiveness, the Bidder must submit the following information on the forms provided in Section 00 5420:
1. The names and addresses of Disadvantaged Business Enterprise (DBE) firms that will participate in the contract;
  2. A description of the work that each DBE firm will perform;
  3. The dollar amount of the participation of each DBE firm listed under (1.)
  4. Written statement from Bidder that attests their commitment to use the DBE firm(s) listed under (1.) to meet the Owner's project goal;
  5. If Bidder cannot meet the advertised project DBE goal; evidence of good faith efforts undertaken by the Bidder as described in Section 00 5420 and 49 CFR Part 26.

The successful Bidder must provide written confirmation of participation from each of the DBE firms the Bidder lists in their commitment. This Bidder must submit the DBE's written confirmation of participation (Section 00 5420).

- D. TRADE RESTRICTION CERTIFICATION.** By submission of an offer, the Offeror certifies that with respect to this solicitation and any resultant contract, the Offeror -
- a. is not owned or controlled by one or more citizens of a foreign country included in the list of countries that discriminate against U.S. firms as published by the Office of the United States Trade Representative (U.S.T.R.);
  - b. has not knowingly entered into any contract or subcontract for this project with a person that is a citizen or national of a foreign country included on the list of countries that discriminate against U.S. firms as published by the U.S.T.R.; and
  - c. has not entered into any subcontract for any product to be used on the Federal on the project that is produced in a foreign country included on the list of countries that discriminate against U.S. firms published by the U.S.T.R.

This certification concerns a matter within the jurisdiction of an agency of the United States of America and the making of a false, fictitious, or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code, Section 1001.

The Offeror/Contractor must provide immediate written notice to the Owner if the Offeror/Contractor learns that its certification or that of a subcontractor was erroneous when submitted or has become erroneous by reason of changed circumstances. The Contractor must require subcontractors provide immediate written notice to the Contractor if at any time it learns that its certification was erroneous by reason of changed circumstances.

Unless the restrictions of this clause are waived by the Secretary of Transportation in accordance with 49 CFR 30.17, no contract shall be awarded to an Offeror or subcontractor:

- (1) who is owned or controlled by one or more citizens or nationals of a foreign country included on the list of countries that discriminate against U.S. firms published by the U.S.T.R. or
- (2) whose subcontractors are owned or controlled by one or more citizens or nationals of a foreign country on such U.S.T.R. list or

## SECTION 00 2113 - INSTRUCTIONS TO BIDDERS

- (3) who incorporates in the public works project any product of a foreign country on such U.S.T.R. list;

Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, the certification required by this provision. The knowledge and information of a contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings. The Offeror agrees that, if awarded a contract resulting from this solicitation, it will incorporate this provision for certification without modification in all lower tier subcontracts. The contractor may rely on the certification of a prospective subcontractor that it is not a firm from a foreign country included on the list of countries that discriminate against U.S. firms as published by U.S.T.R, unless the Offeror has knowledge that the certification is erroneous.

This certification is a material representation of fact upon which reliance was placed when making an award. If it is later determined that the Contractor or subcontractor knowingly rendered an erroneous certification, the Federal Aviation Administration may direct through the Owner cancellation of the contract or subcontract for default at no cost to the Owner or the FAA.

### **E. NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION to ENSURE EQUAL EMPLOYMENT OPPORTUNITY.**

1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" set forth herein.
2. The goals and timetables for minority and female participation, expressed in percentage terms for the contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

Goals for minority participation for each trade: 15.1%

Goals for female participation in each trade: 6.9%

These goals are applicable to all of the contractor's construction work (whether or not it is Federal or federally-assisted) performed in the covered area. If the contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and non-federally involved construction.

The Contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs (OFCCP) within 10 working days of award of



## SECTION 00 2113 - INSTRUCTIONS TO BIDDERS

any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address, and telephone number of the subcontractor; employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.

As used in this notice and in the contract resulting from this solicitation, the "covered area" is the state of Alaska.

- F. CERTIFICATION OF BIDDER REGARDING DEBARMENT.** By submitting a bid/proposal under this solicitation, the Bidder or Offeror certifies that neither it nor its principals are presently debarred or suspended by any Federal department or agency from participation in this transaction.

The successful Bidder, by administering each lower tier subcontract that exceeds \$25,000 as a "covered transaction", must verify each lower tier participant of a "covered transaction" under the project is not presently debarred or otherwise disqualified from participation in this federally assisted project. The successful bidder will accomplish this by:

1. Checking the System for Award Management at website: <http://www.sam.gov>.
2. Collecting a certification statement similar to the Certification of Offerer /Bidder Regarding Debarment, above.
3. Inserting a clause or condition in the covered transaction with the lower tier contract.

If the Federal Aviation Administration later determines that a lower tier participant failed to disclose to a higher tier participant that it was excluded or disqualified at the time it entered the covered transaction, the FAA may pursue any available remedies, including suspension and debarment of the non-compliant participant.

- G. CERTIFICATION REGARDING LOBBYING.** The Bidder certifies by signing and submitting this bid, to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the Bidder, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
- (3) The Contractor shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all sub-recipients shall certify and disclose accordingly.

## **SECTION 00 2113 - INSTRUCTIONS TO BIDDERS**

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

**SECTION 00 2113 - INSTRUCTIONS TO BIDDERS**

**BID MODIFICATION FORM**

SUBMIT TO: CITY AND BOROUGH OF JUNEAU  
PURCHASING DIVISION  
FAX 907-586-4561

Modification Number: \_\_\_\_\_

Note: All modifications shall be made to the original bid amount(s). If more than one Modification form is submitted by any one bidder, changes from all Modification forms submitted will be combined and applied to the original bid. Changes to the modified Bid amounts will be calculated by the Owner.

<b>PAY ITEM DESCRIPTION</b>	<b>MODIFICATION TO LUMP SUM (indicate +/-)</b>
Base Bid	

**Base Bid Total Increase or Decrease: \$ \_\_\_\_\_**

<b>PAY ITEM DESCRIPTION</b>	<b>MODIFICATION TO LUMP SUM (indicate +/-)</b>
Additive Alternate No. 1	

**Additive Alternate No. 1 Total Increase or Decrease: \$ \_\_\_\_\_**

\_\_\_\_\_  
**Name of Bidder**

\_\_\_\_\_  
**Responsible Party Signature**

\_\_\_\_\_  
**Printed Name (must be an authorized signatory for Bidder)**

**END OF SECTION 00 2113**

**SECTION 00 4113 - BID**

**BID TO: THE CITY AND BOROUGH OF JUNEAU**

1. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with the Owner in the form included in the Contract Documents (as defined in Article 7 of Section 00 500 - Agreement) to perform the Work as specified or indicated in said Contract Documents entitled

**JNU Sand Shed Demolition  
Contract No. BE20-187**

2. Bidder accepts all of the terms and conditions of the Contract Documents, including without limitation those in the "Notice Inviting Bids" and "Instructions to Bidders," dealing with the disposition of the Bid Security.

3. This Bid will remain open for the period of time stated in the "Notice Inviting Bids" unless otherwise required by law. Bidder will enter into an Agreement within the time and in the manner required in the "Notice Inviting Bids" and the "Instructions to Bidders," and will furnish insurance certificates, Payment Bond, Performance Bond, and any other documents as may be required by the Contract Documents.

4. Bidder has familiarized itself with the nature and extent of the Contract Documents, Work, site, locality where the Work is to be performed, the legal requirements (federal, state and local laws, ordinances, rules, and regulations), and the conditions affecting cost, progress or performance of the Work and has made such independent investigations as Bidder deems necessary.

5. This Bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any person, firm or corporation to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over Owner.

6. To all the foregoing, and including all Bid Schedule and information required of Bidder contained in this Bid Form, said Bidder further agrees to complete the Work required under the Contract Documents within the Contract Time stipulated in said Contract Documents, and to accept in full payment therefore the Contract Price based on the total bid price(s) named in the aforementioned Bid Schedule.

7. Bidder has examined copies of all the Contract Documents including the following Addenda (receipt of all of which is hereby acknowledged by the Undersigned):

Addenda No.	Date Issued	Addenda No.	Date Issued

**Give number and date of each addenda above. Failure to acknowledge receipt of all Addenda may cause the Bid to be non-responsive and may cause its rejection.**

**SECTION 00 4113 - BID**

8. TO BE CONSIDERED, ALL BIDDERS MUST COMPLETE AND INCLUDE THE FOLLOWING AT THE TIME OF THE DEADLINE FOR BIDS. MISSING DOCUMENTS WILL DEEM THIS BID NON-RESPONSIVE:

- Bid, Section 00 4113 (includes addenda receipt statement)
- Completed Bid Schedule, Section 00 4114
- Bid Security (Bid Bond, Section 00 4313, or by a certified or cashier's check as stipulated in the Notice Inviting Bids, Section 00 0300)
- Contractor's Financial Responsibility (00 4310)
- Complete DBE Bidder's Registration Form for Contractor (00 5420 – pg. 3)
- Buy American Certificate (00 4410)
- By submitting bid, Bidder confirms it has reviewed applicable federal regulations (49CFR Part 26).

The Bidder has read this Bid and agrees to the conditions as stated herein by signing his/her signature in the space.

Dated: _____	Bidder: _____ (Company Name)
Alaska Contractor's Business License No: _____	By: _____ (Signature)
Alaska Contractor's License No: _____	Printed Name: _____ Title: _____
Telephone No: _____	Address: _____ (Street or P.O. Box)
Fax No: _____	_____
Email: _____	(City, State, Zip)

10. The apparent low Bidder is required to complete and submit the following documents by 4:30 p.m. on the ***fifth business day*** following the date of the Posting Notice.
- Subcontractor Report (00 5100);
  - Complete DBE Bidder's Registration Form for Subcontractors and others, Section 00 5420 – pg. 3
  - Complete Utilization Report for each DBE, Section 00 5420, if DBE goals are not achieved, the Contact Reports and Summary of Good Faith Efforts are required (forms in Section 00 5420);
  - Completed documentation for Type 3 Waiver to Buy American requirements, if a waiver is being requested by the Contractor (00 4410);
  - Certification of Bidder Regarding Tax Delinquency and Felony Convictions (00 4311).

The apparent low Bidder who fails to submit a completed Subcontractor Report (00 5100) or complete documentation for Buy American Type 3 Waiver (00 4410) within the time specified above will be found to be not a responsible Bidder and may be required to forfeit the Bid security. The Owner will then consider the next lowest Bidder for award of the contract.

**SECTION 00 4113 - BID**

11. The successful Bidder will be required to submit, within *Ten Days (calendar)* after the date of the “Notice of Intent to Award” letter, the following executed documents:
- Agreement Forms, Section 00 5200
  - Performance Bond, Section 00 5300
  - Payment Bond, Section 00 5400
  - Certificates of Insurance, (Contractor) Section 00 7000 and Section 00 8000
  - Vets4212 Federal Contractor Report, Section 00 5430
  - EEO - 1 Certification, Section 00 5500
  - EEO Estimated Employment Profile, Section 00 5500
  - EEO Notice to Labor Unions, Minority/Women Organizations, Section 00 5500
  - EEO Signature Page, Section 00 5500

**END OF SECTION 00 4113**

**SECTION 00 4114 - BID SCHEDULE**

Bid Schedule for construction of **BE20-187, JNU Sand Shed Demolition**, in accordance with the Contract Documents.

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**BASE BID** - Furnish all labor, equipment and materials to demolish building, and perform all Work as described in these Contract Documents.

\$ \_\_\_\_\_  
**(Price in Figures)**

**ADDITIVE ALTERNATE NO. 1** - In lieu of Base Bid secure perimeter fence, provide secure perimeter fence of approximately 281 lf in configuration shown on drawings.

\$ \_\_\_\_\_  
**(Price in Figures)**

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

**Bidder:** \_\_\_\_\_  
**(Company Name)**

**END OF SECTION 00 4114**

**SECTION 00 4310 - CONTRACTOR'S FINANCIAL RESPONSIBILITY**

All Bidders must complete this form and submit at the time of the deadline for bids. Attach additional sheets as necessary to respond to questions.

**PROJECT:** JNU Sand Shed Demolition; Contract BE20-187.

As the General Contractor on this project, I intend to subcontract \_\_\_\_% of the total value of this contract.

**A. EXPERIENCE**

1. Have you ever failed to complete a contract due to insufficient resources?

No  Yes If YES, explain:

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2. Describe arrangements you have made to finance this work:

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3. Have you had previous construction contracts or subcontracts with the City and Borough of Juneau?

Yes  No

4. Describe your most recent or current contract, its completion date, and scope of work:

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5. List below, and/or as an attachment to this questionnaire, other construction projects you have completed, dates of completion, scope of work, and total contract amount for each project completed in the past twelve months.

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**B. EQUIPMENT**

1. Describe below the equipment you have available and intend to use for this project.

ITEM	QUANTITY	MAKE	MODEL	SIZE/CAPACITY	PRESENT MARKET VALUE

2. Do you propose to purchase any equipment for use on this project not listed on table B-1?

No  Yes If YES, describe type, quantity, and approximate cost:

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3. Do you propose to rent any equipment for this work not listed on table B-1?

No  Yes If YES, describe type and quantity:

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4. Is your bid based on firm offers for all materials necessary for this project?

Yes  No If NO, please explain:

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**I hereby certify that the above statements are true and complete.**

\_\_\_\_\_  
Contractor

\_\_\_\_\_  
Name and Title of Person Signing

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

**SECTION 00 4311 – TAX DELINQUENCY AND FELONY CONVICTIONS CERTIFICATION**

CITY AND BOROUGH OF JUNEAU

**CERTIFICATION of BIDDER  
REGARDING TAX DELINQUENCY and FELONY CONVICTIONS  
US DOT Federal-Aid Contracts**

**JNU SAND SHED DEMOLITION BE20-187**

The applicant must complete the following two certification statements. The applicant must indicate its current status as it relates to tax delinquency and felony conviction by marking (x) in the space following the applicable response. The applicant agrees that, if awarded a contract resulting from this solicitation, it will incorporate this provision for certification in all lower tier subcontracts.

**TERM DEFINITIONS**

**Felony Convictions:** Felony conviction means a conviction within the preceding twenty-four (24) months of a felony criminal violation under any Federal law and includes conviction of an offense defined in a section of the U.S. code that specifically classifies the offense as a felony and conviction of an offense that is classified as a felony under 18 U.S.C. §3559.

**Tax Delinquency:** A tax delinquency is any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability.

**CERTIFICATIONS** (Please check appropriate boxes.)

- 1) The applicant represents that it is ( ) is not ( ) a corporation that has any unpaid Federal Tax Liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability.
- 2) The applicant represents that it is ( ) is not ( ) is not a corporation that was convicted of a criminal violation under any Federal law within the preceding 24 months.

**NOTE**

If an applicant responds in the affirmative to either of the above representations, the applicant is ineligible to receive an award unless the sponsor has received notification from the agency suspension and debarment official (SDO) that the SDO has considered suspension or debarment and determined that further action is not required to protect the Government’s interests. The applicant therefore must provide information to the owner about its tax liability or conviction to the Owner, who will then notify the FAA Airports District Office, which will then notify the agency’s SDO to facilitate completion of the required considerations before award decisions are made.

<b>Signature of Authorized Company Representative</b>	<b>Title</b>
<b>Company Name</b>	<b>Company Address (Street or PO Box, City, State, Zip)</b>
<b>Date</b>	<b>Phone Number</b>

**SECTION 00 4313 - BID BOND**

KNOW ALL PERSONS BY THESE PRESENTS, that \_\_\_\_\_  
\_\_\_\_\_ as Principal, and \_\_\_\_\_  
as Surety, are held and firmly bound unto **THE CITY AND BOROUGH OF JUNEAU** hereinafter called  
"Owner," in the sum of \_\_\_\_\_  
\_\_\_\_\_ dollars, (not less than five percent of the total amount of the Bid) for  
the payment of which sum, well and truly to be made, we bind ourselves, our heirs, executors, administrators,  
successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, said Principal has submitted a Bid to said Owner to perform the Work required under the  
Bid Schedule of the Owner's Contract Documents entitled

**JNU SAND SHED DEMOLITION**

**Contract No. BE20-187**

NOW THEREFORE, if said Principal is awarded a contract by said Owner and, within the time and  
in the manner required in the "Notice Inviting Bids" and the "Instructions to Bidders" enters into a written  
Agreement on the form of Agreement bound with said Contract Documents, furnishes the required certificates  
of insurance, and furnishes the required Performance Bond and Payment Bond, then this obligation shall be  
null and void, otherwise it shall remain in full force and effect. In the event suit is brought upon this bond by  
said Owner and Owner prevails, said Surety shall pay all costs incurred by said Owner in such suit, including  
a reasonable attorney's fee to be fixed by the court.

SIGNED AND SEALED, this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

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

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

By: \_\_\_\_\_  
(Signature)

By: \_\_\_\_\_  
(Signature)

**END OF SECTION 00 4313**

## SECTION 00 4410 - BUY AMERICAN CERTIFICATION

### CERTIFICATE OF BUY AMERICAN COMPLIANCE FOR TOTAL FACILITY

As a matter of bid responsiveness, the bidder must complete, sign, date, and submit this certification statement with their proposal. The bidder must indicate how they intend to comply with 49 USC § 50101 by selecting one of the following certification statements. These statements are mutually exclusive.

**Bidder must select one or the other** (i.e. not both) by inserting a checkmark (✓) or the letter “X”.

- Bidder hereby certifies that it will comply with 49 USC. 50101 by:
- a) Only installing steel and manufactured products produced in the United States; or
  - b) Installing manufactured products for which the FAA has issued a waiver as indicated by inclusion on the current FAA Nationwide Buy American Waivers Issued listing; or
  - c) Installing products listed as an Excepted Article, Material or Supply in Federal Acquisition Regulation Subpart 25.108.

By selecting this certification statement, the bidder or offeror agrees:

1. To provide to the Owner evidence that documents the source and origin of the steel and manufactured product.
2. To faithfully comply with providing US domestic products.
3. To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.

- Bidder hereby certifies it cannot comply with the 100% Buy American Preferences of 49 USC § 50101(a) but may qualify for either a Type 3 or Type 4 waiver under 49 USC § 50101(b). By selecting this certification statement, the apparent bidder with the apparent low bid agrees:
1. To submit to the Owner within 5 calendar days of the bid posting, a formal waiver request and all required documentation that supports the type of waiver being requested.
  2. That failure to submit the required documentation within the specified timeframe is cause for a non-responsive determination that may result in rejection of the bid.
  3. To faithfully comply with providing US domestic products at or above the approved US domestic content percentage as approved by the FAA.
  4. To furnish US domestic product for any waiver request that the FAA rejects.
  5. To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.

### REQUIRED DOCUMENTATION

**Type 3 Waiver** - The cost of components and subcomponents produced in the United States is more than 60% of the cost of all components and subcomponents of the “facility”. For this project, the term “facility” includes Work associated with new construction, including but not limited to a new structural wall to support the adjacent building. The required documentation for a type 3 waiver is:

- a) Listing of all manufactured products that are not comprised of 100% US domestic content (Excludes products listed on the FAA Nationwide Buy American Waivers Issued listing and products excluded by Federal Acquisition Regulation Subpart 25.108; products of unknown origin must be considered as non-domestic products in their entirety)

**SECTION 00 4410 - BUY AMERICAN CERTIFICATION**

- b) Cost of non-domestic components and subcomponents, excluding labor costs associated with final assembly and installation at project location.
- c) Percentage of non-domestic component and subcomponent cost as compared to total “facility” component and subcomponent costs, excluding labor costs associated with final assembly and installation at project location.
- d) FAA Final Assembly Questionnaire form (page 3 of this section).

**Type 4 Waiver** – Total cost of project using US domestic source product exceeds the total project cost using non-domestic product by 25%. The required documentation for a type 4 of waiver is:

- a) Detailed cost information for total project using US domestic product
- b) Detailed cost information for total project using non-domestic product

**False Statements:** Per 49 USC § 47126, this certification concerns a matter within the jurisdiction of the Federal Aviation Administration and the making of a false, fictitious or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Title

## SECTION 00 4410 - BUY AMERICAN CERTIFICATION

### Buy American Preferences - Final Assembly Questionnaire

To assist the Federal Aviation Administration (FAA) in making the determination of whether final assembly of the product occurs in the United States, please complete and submit this questionnaire when requesting a Buy American Waiver under 49 U.S.C. 50101(b)(3)(A).

**1. Provide a description of the assembly process occurring at the specified final location in the United States.**

*Describe the final assembly process and its various operations.*

*How long does the final assembly process take to complete?*

**2. Provide a description of the resources used to conduct the assembly of the product at the specified location in the United States.**

*How many employees are involved in the final assembly process and what is the general skill level of those employees?*

*What type of equipment is used during the final assembly process?*

*What is a rough estimate of the associated cost to conduct final assembly of the product at the specified location in the United States?*

**SECTION 00 5100 - SUBCONTRACTOR REPORT**

**LIST OF SUBCONTRACTORS (AS 36.30.115)**

The apparent low Bidder must submit a list of Subcontractors that the Bidder proposes to use in the performance of this contract *on the fifth business day* following the Posting Notice of Bids. If the fifth day falls on a weekend or holiday, the report is due by close of business on the next business Day following the weekend or holiday. The Subcontractor Report list must include each Subcontractor's name, address, location, evidence of valid Alaska Business License, and valid Alaska Contractor's Registration under AS 08.18. *If no Subcontractors are to be utilized in the performance of the Work, write in ink or type "NONE" on line (1) below*

<u>SUBCONTRACTOR</u>	<sup>1</sup> AK Contractor License No.	<sup>1</sup> Contact Name	Type of	Contract	✓ if DBE
<u>ADDRESS</u>	<sup>2</sup> AK Business License No.	<sup>2</sup> Phone No.	<u>Work</u>	<u>Amount</u>	
1. _____ _____ _____	1 _____ 2 _____	_____ _____	_____ _____	\$ _____	<input type="checkbox"/>
2. _____ _____ _____	1 _____ 2 _____	_____ _____	_____ _____	\$ _____	<input type="checkbox"/>
3. _____ _____ _____	1 _____ 2 _____	_____ _____	_____ _____	\$ _____	<input type="checkbox"/>
4. _____ _____ _____	1 _____ 2 _____	_____ _____	_____ _____	\$ _____	<input type="checkbox"/>

I certify that the above listed Alaska Business License(s) and Contractor Registration(s), if applicable, were valid at the time Bids were opened for this Project.

\_\_\_\_\_  
Contractor, Authorized Signature

\_\_\_\_\_  
Contractor, Printed Name

\_\_\_\_\_  
Company

## SECTION 005100 - SUBCONTRACTOR REPORT

- A. A Bidder may replace a listed Subcontractor if the Subcontractor:
1. fails to comply with AS 08.18;
  2. files for bankruptcy or becomes insolvent;
  3. fails to execute a contract with the Bidder involving performance of the Work for which the Subcontractor was listed and the Bidder acted in good faith;
  4. fails to obtain bonding;
  5. fails to obtain insurance acceptable to the Owner;
  6. fails to perform the contract with the Bidder involving work for which the Subcontractor was listed;
  7. must be substituted in order for the Contractor to satisfy required state and federal affirmative action requirements;
  8. refuses to agree or abide with the Bidder's labor agreement; or
  9. is determined by the Owner not to be responsible.
  10. is not in "Good Standing" with the Owner as required in Article 19.0 of Section 00 2113 – Instructions to Bidders.
- B. If a Bidder fails to list a Subcontractor or lists more than one Subcontractor for the same portion of Work, the Bidder shall be considered to have agreed to perform that portion of Work without the use of a Subcontractor and to have represented the Bidder to be qualified to perform that Work.
- C. A Bidder who attempts to circumvent the requirements of this section by listing as a Subcontractor another contractor who, in turn, sublets the majority of the Work required under the contract violates this section.
- D. If a contract is awarded to a Bidder who violates this section, the Owner may:
1. cancel the contract; or
  2. after notice and a hearing, assess a penalty on the Bidder in an amount that does not exceed 10 percent of the value of the subcontract at issue.
- E. On the Subcontractor Report, the apparent low Bidder must list any Subcontractors anticipated to perform Work with a value of greater than one-half of one percent of the intended award amount, or \$2,000, whichever is less.
- F. An apparent low Bidder who fails to submit a completed Subcontractor Report within the time specified in this section may be found to be not a responsible Bidder and may be required to forfeit the Bid security. The Owner will then consider the next lowest Bidder for award of the contract.

**END OF SECTION 00 5100**



## SECTION 00 5200 - AGREEMENT

THIS AGREEMENT is between THE CITY AND BOROUGH OF JUNEAU (hereinafter called Owner) and \_\_\_\_\_ (hereinafter called Contractor) Owner and Contractor, in consideration of the mutual covenants hereinafter set forth, agree as follows:

### ARTICLE 1. WORK.

Contractor shall complete the Work as specified or as indicated under the Bid Schedule of the Owner's Contract Documents **Contract BE20-187, JNU SAND SHED DEMOLITION.**

The Work is generally described as follows: Demolition of approximately 18,000 sf of steel framed building at the Juneau International Airport, and construction of a new structural wall to maintain the structural integrity of the adjacent building.

The Work to be paid under this contract shall include the following: Base Bid and Additive Alternate No. 1 as shown in Section 00 4114 - Bid Schedule.

### ARTICLE 2. CONTRACT COMPLETION TIME.

Substantial Completion shall be December 31, 2020. Final Completion shall be 30 days following Substantial Completion.

### ARTICLE 3. DATE OF AGREEMENT

The date of this agreement will be the date of the last signature on page three of this section.

### ARTICLE 4. LIQUIDATED DAMAGES.

Owner and the Contractor recognize that time is of the essence of this Agreement and that the Owner will suffer financial loss if the Work is not completed within the time specified in Article 2, plus any extensions thereof allowed in accordance with Article 8 of the General Conditions. They also recognize the delays, expense, and difficulties involved in proving in a legal proceeding the actual damages suffered by the Owner if the Work is not completed on time. Accordingly, instead of requiring any such proof, the Owner and the Contractor agree that as liquidated damages for delay (but not as a penalty) the Contractor shall pay the Owner **\$1,000** for each Day that expires after the date of Substantial Completion specified in Article 2 herein. The amount of liquidated damages specified above is agreed to be a reasonable estimate based on all facts known as of the date of this Agreement.

### ARTICLE 5. CONTRACT PRICE.

Owner shall pay Contractor for completion of the Work in accordance with the Contract Documents in current funds the amount set forth in the Bid Schedule. The Contractor agrees to accept as full and complete payment for all Work to be done in this contract for: **CBJ Contract BE20-187, named JNU Sand Shed Demolition,** those Lump Sum amounts as set forth in the Bid Schedule in the Contract Documents for this Project.

The total amount of this contract shall be \_\_\_\_\_ (\$ \_\_\_\_\_), except as adjusted in accordance with the provisions of the Contract Documents.

## SECTION 00 5200 - AGREEMENT

### ARTICLE 6. PAYMENT PROCEDURES.

Contractor shall submit Applications for Payment in accordance with Article 9 of the General Conditions. Applications for Payment will be processed by the Owner's Representative as provided in the General Conditions.

Progress payments will be paid in accordance with Article 9 of the General Conditions until ninety (90) percent of the Contract Price has been paid. The remaining ten (10) percent of the Contract Price may be withheld in accordance with the General Conditions and applicable Alaska State Statutes until final acceptance of the Project by the Owner.

### ARTICLE 7. CONTRACT DOCUMENTS.

The Contract Documents which comprise the entire Agreement between Owner and Contractor concerning the Work consist of this Agreement (pages 00 5200-1 to 00 5200-6, inclusive) and the following sections of the Contract Documents:

- Table of Contents (pages 00 0005-1 to 00 0005-3, inclusive).
- Notice Inviting Bids (pages 00 0300-1 to 00 0300-3, inclusive).
- Instructions to Bidders (pages 00 2113-1 to 00 2113-12, inclusive).
- Bid (pages 00 4113-1 to 00 4113-3, inclusive).
- Bid Schedule (pages 00 4114-1, inclusive).
- Contractor's Financial Responsibility (pages 00 4310-1 to 00 4310-2, inclusive).
- Certification of Bidder Regarding Tax Delinquency and Felony Conviction (page 00 4311-1, inclusive).
- Bid Bond (page 00 4313-1, inclusive) or Bid Security.
- Buy American (pages 00 4410-1 to 00 4410-3, inclusive).
- Subcontractor Report (pages 00 5100-1 to 00 5100-2, inclusive).
- Insurance Certificate(s).
- Performance Bond (pages 00 5300-1 to 00 5300-2, inclusive).
- Payment Bond (pages 00 5400-1 to 00 5400-2, inclusive).
- DBE Documents (pages 00 5420-1 to 00 5420-8, inclusive).
- Veteran's Participation – Vets 4212 Form (pages 00 5430-1 to 00 5430-5, inclusive).
- Federal EEO Bid Conditions (pages 00 5500-1 to 00 5500-11, inclusive).
- Federal Labor Standards, Reporting, and Prevailing Wage Rate Determination (page 00 5600-1 and Appendices A and B, inclusive).
- Employment Security Tax Clearance Form (page 00 6100-1, inclusive).
- Compliance Certificate and Release Form (pages 00 6200-1, to 00 6200-4, inclusive).
- General Conditions (pages 00 7000-1 to 00 7000-45, inclusive).
- Supplementary General Conditions (pages 00 8000-1 to 00 8000-15 and Appendix A, inclusive).
- Technical Specifications as listed in the Table of Contents.
- Drawings consisting of 25 sheets, as listed in the Table of Contents.
- Addenda numbers \_\_\_\_\_ to \_\_\_\_\_, inclusive.
- Change Orders which may be delivered or issued after the Date of the Agreement and which are not attached hereto.

There are no Contract Documents other than those listed in this Article 7. The Contract Documents may only be amended by Change Order as provided in Paragraph 3.3 of the General Conditions.

**SECTION 00 5200 - AGREEMENT**

**ARTICLE 8. MISCELLANEOUS.**

Terms used in this Agreement which are defined in Article 1 of the General Conditions will have the meanings indicated in the General Conditions.

No assignment by a party hereto of any rights under or interests in the Contract Documents will be binding on another party hereto without the written consent of the party sought to be bound; and specifically but without limitation monies that may become due and monies that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents.

Owner and Contractor each binds itself, its partners, successors, assigns and legal representatives to the other party hereto, its partners, successors, assigns and legal representatives in respect of all covenants, agreements and obligations contained in the Contract Documents. This Agreement shall be governed by the laws of the State of Alaska. Jurisdiction shall be in the State of Alaska, First Judicial District.

IN WITNESS WHEREOF, Owner and Contractor have caused this Agreement to be executed on the date listed below signed by Owner.

**OWNER:**

**CONTRACTOR:**

\_\_\_\_\_  
City and Borough of Juneau

\_\_\_\_\_  
(Company Name)

\_\_\_\_\_  
(Signature) (Date)

\_\_\_\_\_  
(Signature) (Date)

By: Patricia K. Wahto, JNU Airport Manager  
(Printed Name)

By: \_\_\_\_\_  
(Printed Name, Authority or Title)

\_\_\_\_\_  
(Signature) (Date)

By: Duncan Rorie Watt, City & Borough Manager  
(Printed Name)

Owner's address for giving notices:

Contractor's address for giving notices:

\_\_\_\_\_  
155 South Seward Street

\_\_\_\_\_

\_\_\_\_\_  
Juneau, Alaska 99801

\_\_\_\_\_

\_\_\_\_\_  
907-586-0873 907-586-4530  
(Telephone) (Fax)

\_\_\_\_\_  
(Telephone) (Fax)

\_\_\_\_\_  
(E-mail address)

Contractor License No. \_\_\_\_\_

SECTION 00 5200 - AGREEMENT

CERTIFICATE

(if Corporation)

STATE OF )
) SS:
COUNTY OF )

I HEREBY CERTIFY that a meeting of the Board of Directors of the
\_\_\_\_\_ a corporation existing under the laws of
the State of \_\_\_\_\_, held on \_\_\_\_\_, 20\_\_\_\_, the following resolution
was duly passed and adopted:

“RESOLVED, that \_\_\_\_\_, as \_\_\_\_\_ President
of the Corporation, be and is hereby authorized to execute the Agreement with the CITY AND
BOROUGH OF JUNEAU and this corporation and that the execution thereof, attested by the
Secretary of the Corporation, and with the Corporate Seal affixed, shall be the official act and
deed of this Corporation.”

I further certify that said resolution is now in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of the
corporation this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

Secretary

(SEAL)

SECTION 00 5200 - AGREEMENT

CERTIFICATE  
(if Partnership)

STATE OF )  
 ) SS:  
COUNTY OF )

I HEREBY CERTIFY that a meeting of the Partners of the  
\_\_\_\_\_ a partnership existing under the laws of the State  
of \_\_\_\_\_, held on \_\_\_\_\_, 20\_\_\_\_, the following resolution was duly  
passed and adopted:

"RESOLVED, that \_\_\_\_\_, as \_\_\_\_\_ of the Partnership, be and is  
hereby authorized to **execute the Agreement** with the CITY AND BOROUGH OF JUNEAU and  
this partnership and that the execution thereof, attested by the \_\_\_\_\_ shall be  
the official act and deed of this Partnership."

I further certify that said resolution is now in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand this \_\_\_\_\_, day of \_\_\_\_\_,  
20\_\_\_\_\_.

Secretary

(SEAL)

**SECTION 00 5200 - AGREEMENT**

**CERTIFICATE  
(if Joint Venture)**

STATE OF            )  
                          ) SS:  
COUNTY OF        )

I HEREBY CERTIFY that a meeting of the Principals of the  
\_\_\_\_\_ a joint venture existing under the laws of the  
State of \_\_\_\_\_, held on \_\_\_\_\_, 20\_\_\_\_, the following resolution was duly passed and  
adopted:

"RESOLVED, that \_\_\_\_\_, as \_\_\_\_\_ of the  
Joint Venture, be and is hereby authorized to **execute the Agreement** with the CITY AND  
BOROUGH OF JUNEAU and this joint venture and that the execution thereof, attested by the  
\_\_\_\_\_ shall be the official act and deed of this Joint Venture."

I further certify that said resolution is now in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand this \_\_\_\_\_, day of  
\_\_\_\_\_, 20\_\_\_\_\_.

Secretary

(SEAL)

**END OF SECTION 00 5200**

**SECTION 00 5300 - PERFORMANCE BOND**

KNOW ALL PERSONS BY THESE PRESENTS: That we \_\_\_\_\_  
(Name of Contractor)

a \_\_\_\_\_  
(Corporation, Partnership, Individual)

hereinafter called "Principal" and \_\_\_\_\_  
(Surety)

of \_\_\_\_\_, State of \_\_\_\_\_ hereinafter called the "Surety", are held and firmly bound  
to the CITY AND BOROUGH of JUNEAU, ALASKA hereinafter called "Owner", for the penal sum  
(Owner) (City and State)

of \_\_\_\_\_ dollars (\$ \_\_\_\_\_) in  
lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves,  
our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that whereas, the Contractor has entered into a  
certain contract with the Owner, the effective date of which is (CBJ Contracts Office to fill in effective date)  
\_\_\_\_\_, a copy of which is hereto attached and made a part hereof for the construction of:

**JNU Sand Shed Demolition  
Contract BE20-187**

NOW, THEREFORE, if the Principal shall truly and faithfully perform its duties, all the undertakings,  
covenants, terms, conditions, and agreements of said contract during the original term thereof, and any extensions  
thereof, which may be granted by the Owner, with or without notice to the Surety, and if it shall satisfy all claims  
and demands incurred under such contract, and shall fully indemnify and save harmless the Owner from all costs  
and damages which it may suffer by reason of failure to do so, and shall reimburse and repay the Owner all outlay  
and expense which the Owner may incur in making good any default, then this obligation shall be void; otherwise  
to remain in full force and effect.

PROVIDED, FURTHER, that the said Surety, for value received hereby stipulates and agrees that no  
change, extension of time, alteration or addition to the terms of the contract or to the Work to be performed  
thereunder or the specifications accompanying the same shall in any wise affect its obligation on this bond, and it  
does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract  
or to the Work or to the Specifications.

PROVIDED, FURTHER, that no final settlement between the Owner and the Principal shall abridge the  
right of any beneficiary hereunder, whose claim may be unsatisfied.

**SECTION 00 5300 - PERFORMANCE BOND**

**JNU Sand Shed Demolition  
Contract No. BE20-187**

IN WITNESS WHEREOF, this instrument is issued in two (2) identical counterparts, each one of which shall be deemed an original.

**CONTRACTOR:**

By: \_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Printed Name)

\_\_\_\_\_  
(Company Name)

\_\_\_\_\_  
(Mailing Address)

\_\_\_\_\_  
(City, State, Zip Code)

**SURETY:**

By: \_\_\_\_\_  
(Signature of Attorney-in-Fact)

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

\_\_\_\_\_  
(Printed Name)

\_\_\_\_\_  
(Company Name)

\_\_\_\_\_  
(Mailing Address)

\_\_\_\_\_  
(City, State, Zip Code)

**(Affix SURETY'S SEAL)**

**NOTE: If Contractor is Partnership, all Partners must execute bond.**



**SECTION 00 5400 - PAYMENT BOND**

KNOW ALL PERSONS BY THESE PRESENTS: That we \_\_\_\_\_  
(Name of Contractor)

\_\_\_\_\_ a \_\_\_\_\_  
(Corporation, Partnership, Individual)

hereinafter called "Principal" and \_\_\_\_\_  
(Surety)

of \_\_\_\_\_, State of \_\_\_\_\_ hereinafter called the "Surety," are held and

firmly bound to the CITY AND BOROUGH of JUNEAU, ALASKA hereinafter called "Owner," for the  
(Owner) (City and State)

penal sum of \_\_\_\_\_ Dollars  
(\$ \_\_\_\_\_) in lawful money of the United States, for the payment of which sum well  
and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and  
severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that Whereas, the Contractor has entered into a  
certain contract with the Owner, the effective date of which is (CBJ Contracts Office to fill in effective date)  
\_\_\_\_\_, a copy of which is hereto attached and made a part hereof for the construction  
of:

**JNU Sand Shed Demolition  
Contract No. BE20-187**

NOW, THEREFORE, if the Principal shall promptly make payment to all persons, firms,  
Subcontractors, and corporations furnishing materials for, or performing labor in the prosecution of the Work  
provided for in such contract, and any authorized extension or modification thereof, including all amounts due  
for materials, lubricants, oil, gasoline, coal and coke, repairs on machinery, equipment and tools, consumed or  
used in connection with the construction of such Work, and all insurance premiums on said work, and for all  
labor performed in such Work, whether by Subcontractor or otherwise, then this obligation shall be void;  
otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said Surety, for value received hereby stipulates and agrees that no  
change, extension of time, alteration or addition to the terms of the contract or to the Work to be performed  
thereunder or the specifications accompanying the same shall in any wise affect its obligation on this bond,  
and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of  
the contract or to the Work or to the Specifications.

PROVIDED, FURTHER, that no final settlement between the Owner and the Principal shall abridge  
the right of any beneficiary hereunder, whose claim may be unsatisfied.

**SECTION 00 5400 - PAYMENT BOND**

**JNU Sand Shed Demolition  
Contract No. BE20-187**

IN WITNESS WHEREOF, this instrument is issued in two (2) identical counterparts, each one of which shall be deemed an original.

**CONTRACTOR:**

By: \_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Printed Name)

\_\_\_\_\_  
(Company Name)

\_\_\_\_\_  
(Mailing Address)

\_\_\_\_\_  
(City, State, Zip Code)

**SURETY:**

By: \_\_\_\_\_  
(Signature of Attorney-in-Fact)

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

\_\_\_\_\_  
(Printed Name)

\_\_\_\_\_  
(Company Name)

\_\_\_\_\_  
(Mailing Address)

\_\_\_\_\_  
(City, State, Zip Code)

**(Affix SURETY'S SEAL)**

**NOTE: If Contractor is Partnership, all Partners must execute bond.**

## SECTION 00 5420 - DBE PROGRAM

### 1. GENERAL

- A. Projects receiving federal grant funding require that Contractors comply with the Disadvantaged Business Enterprise Program (DBE) and complete and submit the forms, reports and documentation as described herein. Forms in this section include:
  - 1. Bidder Registration form (00 5420 – 3)
  - 2. DBE Utilization Report (00 5420 – 4)
  - 3. DBE Contact Report (00 5420 – 5 through 6)
  - 4. Summary of Good Faith Effort Documentation (00 5420 – 7)
  - 5. Annual Report: Summary of Progress Payments during Federal Fiscal Year (00 5420 - 8)
- B. Failure to comply with the provisions of this section is a material breach that may result in failure to award a contract, contract termination, or other remedy as CBJ deems appropriate.
- C. For assistance with DBE requirements, contact the DBE Administrator at Juneau International Airport (JNU) at (907)789-7821. The JNU administrative office is located at 1873 Shell Simmons Drive, Ste. 200, Juneau, Alaska 99801.
- D. JNU's race-neutral (aspirational) DBE Utilization Goal for this project is that at least 4.22% of the value of this contract be paid to DBEs. A DBE may act as a prime Contractor, Subcontractor, Service Provider, Material Supplier, Manufacturer, or combination of these.
- E. Subcontracting opportunities for this project include, but are not limited to: trucking, demolition of structure, fencing, and general carpentry.

### 2. BIDDING REQUIREMENTS

- A. All Bidders must complete a Bidder Registration form for the Prime Contractor and submit at the time of bid with other required documents as provided in Section 00 4113.
- B. DBEs must be certified by the State of Alaska DOT&PF at the time of the bid opening to be counted toward the project's DBE goal.
- C. Prior to the scheduled pre-bid conference, each Bidder must solicit DBE participation to meet the stated DBE goal and should encourage interested DBEs to attend the pre-bid conference to learn more about the project. Each Bidder must consider DBEs even if its firm is capable of doing all the work. Bidders must meet the DBE goal or prove good faith efforts (GFEs) were taken to meet the goal. GFEs include, but are not limited to, the following:
  - 1. Advertise subcontracting opportunities in newspapers, trade publications and minority - focused media.
  - 2. Review and use the directories of certified DBEs available from the State of Alaska Department of Transportation & Public Facilities Civil Rights Office. (907) 269-0851.
  - 3. Contact specific DBEs in writing, giving enough time for effective participation.
  - 4. Break down contracts into units that allow DBE participation. This may include portions of work normally performed by your firm.
  - 5. Negotiate in good faith with DBEs for specific bids. Do not reject them as unqualified without a thorough investigation of their capabilities.
  - 6. Provide DBEs with information about the plans, specifications and contract requirements including bonding and insurance requirements.
  - 7. Provide DBEs with information about securing equipment, supplies, materials, or related assistance or services for the project.
  - 8. Attend the pre-bid conference to review DBE requirements.
- D. DBE subcontractors' bids that are more than 10 percent higher than an accepted non-DBE subcontractor's bid may be deemed non-competitive, provided they are for the exact same work

## SECTION 00 5420 - DBE PROGRAM

or service. All evidence in support of a DBE's non-competitive bid determination must be provided in the Summary of GFE Documentation and DBE Contact Report. When a Bidder rejects a DBE subcontractor's bid as being non-competitive, the work must be performed by the non-DBE subcontractor whose bid was used to provide the basis of the determination in the amount stated in the DBE Utilization Report, except as modified by terms of the contract.

### 3. CONTRACT AWARD REQUIREMENTS

- A. The apparent low Bidder is required to submit the following completed DBE documents and submit them to the CBJ Contracts Office by 4:30 p.m. on the fifth business day following the Posting Notice date:
1. Bidder Registration form for all subcontractors and service providers, and a Bidder Registration form for each material supplier or manufacturer whose contract exceeds \$50,000.
  2. DBE Utilization Report
  3. DBE Contact Report (if DBE Utilization Goal was not achieved)
  4. Summary of Good Faith Effort Documentation (if DBE Utilization Goal was not achieved)
- B. When a Bidder fails to meet the DBE Utilization Goal, the following criteria will be used to determine whether or not sufficient GFEs have been demonstrated to be eligible for contract award.
1. The Bidder has sought out DBE participation for subcontractable components.
  2. All DBEs listed in the Alaska DOT/PF's current DBE Directory that indicate "Yes" under the specific Work Area (Region) were contacted and logged on a DBE Contact Report at least seven calendar days prior to bid opening. Acceptable methods of initial and follow up notification include:
    - a) By fax, with a confirmation receipt of successful transmission to the DBE's fax number listed in the DBE Directory.
    - b) By email, with confirmation of successful receipt by DBE's email address listed in the DBE Directory.
    - c) By mail to the DBE's address listed in the DBE Directory, with a return receipt requested. Delivery confirmation with evidence of successful delivery is an acceptable substitute for return receipt.
    - d) By telephone solicitation, with a record of the date and time of the telephone call made to the DBE's telephone number listed in the DBE Directory.

### 4. CONTRACT PERFORMANCE

- A. Once a contract is executed, a DBE subcontractor may only be replaced for failure to perform. Contractor must make a good faith effort to use another certified DBE. Contractor must get the DBE Administrator's written approval before replacement.
- B. The DBE must perform a commercially useful function. This means the DBE is responsible for execution of a distinct element of the work of a contract and carrying out its responsibilities by actually performing, managing, and supervising the work involved. The DBE may not subcontract out portions of its work, act as an employee of another Contractor on the project, or allow another Contractor to coordinate its employees, supplies, equipment, or business requirements without written approval from the DBE Administrator.
- C. By October 15<sup>th</sup> of each year, the Contractor shall submit to the DBE Administrator, an Annual Report that summarizes progress payments using the form provided in this section that covers the period of participation between October 1 and September 30 of the preceding federal fiscal year.

SECTION 00 5420 – DBE PROGRAM

CITY AND BOROUGH OF JUNEAU

BIDDER REGISTRATION

FAA-Funded Contracts - Juneau International Airport

JNU SAND SHED DEMOLITION

Contract No. BE20-187

All Bidders must complete this form for the Prime Contractor and submit it at the time of bid with other required documents as provided in Section 00 4113. This form must be also completed by each Subcontractor and Service Provider, as well as by each Material Supplier or Manufacturer whose products for the contract exceed \$50,000 and submitted to the CBJ Contracts Office by 4:30 p.m. on the fifth business day following the Posting Notice date.

Name of Firm: \_\_\_\_\_

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

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

Telephone Number: \_\_\_\_\_ Fax number: \_\_\_\_\_

E-mail Address: \_\_\_\_\_ Date Firm was Established: \_\_\_\_\_

Is this firm a (check all that apply):

Prime Contractor? [ ] Yes [ ] No

Subcontractor? [ ] Yes [ ] No

Service Provider? [ ] Yes [ ] No

Material Supplier? [ ] Yes [ ] No

Manufacturer? [ ] Yes [ ] No

Alaska DOT/PF Certified DBE? [ ] Yes [ ] No

Federally Certified Small Business? [ ] Yes [ ] No

Identify specialty: .....

Identify service: .....

Identify material: .....

Identify product: .....

If yes, please include a copy of the SBA Certificate.

NAICS Code

Table with 4 empty rows for NAICS Code entry.

Firm's gross annual receipts:

[ ] < \$500,000

[ ] \$500,000 - \$999,999

[ ] \$1,000,000 - \$4,999,999

[ ] \$5,000,000 - \$9,999,999

[ ] \$10,000,000 - \$16,999,999

[ ] > \$17,000,000

Signature of Company Representative

Title

Date

Questions? Please contact the DBE Administrator at (907) 789-7821.

**SECTION 00 5420 – DBE PROGRAM**

CITY AND BOROUGH OF JUNEAU  
**DBE UTILIZATION REPORT**

FAA-Funded Contracts - Juneau International Airport

**JNU SAND SHED DEMOLITION**

Contract No. BE20-187

The undersigned hereby certifies on behalf of the Bidder that:

A. It  has  has not met the DBE Utilization Goal for the project. If it has not met the goal, the required documentation of sufficient Good Faith Efforts  is attached hereto.

B. Listed below are the Alaska DOT/PF-certified DBEs to be used in meeting the DBE utilization goal for this project.

To describe "Type of DBE Credit" in the table below, use the following abbreviations: Prime Contractor ("P"); Subcontractor ("SUB"), Service Provider ("SP"), Material Supplier ("MS") or Manufacturer ("MFG"). Identify the creditable dollar amount to be counted toward the goal in the right hand column.

FIRM NAME	PHONE #	BID ITEM, WORK, OR PRODUCT	TYPE OF DBE CREDIT	CREDITABLE DOLLAR AMOUNT
				\$
				\$
				\$
				\$
				\$
				\$

Total creditable DBE Utilization Amount	\$ _____
Base Bid Amount	\$ _____
DBE Utilization as % of Base Bid Amount	_____ %
DBE Project Goal	_____ %

\_\_\_\_\_  
Signature of Authorized Company Representative

\_\_\_\_\_  
Title

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Company Address (Street or PO Box, City, State, Zip)

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

\_\_\_\_\_  
Date

\_\_\_\_\_  
Phone Number

Questions? Please contact the DBE Administrator at (907) 789-7821.

SECTION 00 5420 – DBE PROGRAM

CITY AND BOROUGH OF JUNEAU  
**DBE CONTACT REPORT**

FAA-Funded Contracts - Juneau International Airport

JNU SAND SHED DEMOLITION  
Contract No. BE20-187

**Prime Contractor must submit this form if the DBE Utilization Goal was not met.**

**DBE FIRM CONTACTED:**

\_\_\_\_\_  
Name Address (\_\_\_\_\_) Phone Number

**SPECIFIC WORK OR MATERIALS** (by Pay Item): \_\_\_\_\_

**A. INITIAL CONTACT:** (See Instructions on next page)

- 1. Date: \_\_\_\_\_ Method:  Phone  Mail  FAX  Email
- 2. Person Contacted: \_\_\_\_\_  
Name Title
- 3. DBE's Response: Date: \_\_\_\_\_ Method:  Phone  Mail  FAX  Email
  - Submitted an acceptable bid. (If bid accepted, skip to Section D)
  - Not interested: Indicate Reason(s): \_\_\_\_\_
  - Needs more information: Date Prime provided requested information: \_\_\_\_\_
  - Will provide bid by: Date: \_\_\_\_\_
  - Received unacceptable bid (complete Section C)

**B. FOLLOW-UP CONTACT:**

- 1. Date: \_\_\_\_\_ Method:  Phone  Mail  FAX  Email
- 2. Person Contacted: \_\_\_\_\_  
Name Title
- 3. DBE's Response: Date: \_\_\_\_\_ Method:  Phone  Mail  FAX  Email
  - Submitted an acceptable bid. (If bid accepted, skip to Section D)
  - Received unacceptable bid (complete Section C)
  - Other result: \_\_\_\_\_

**C. EXPLANATION OF FAILURE TO ACHIEVE AN ACCEPTABLE BID:**

- 1. Were the following Good Faith Efforts made?
  - a.  Yes  No Identified specific items of work, products, materials, etc. when asking for bid.
  - b.  Yes  No Informed DBE about the plans, specifications and contract requirements including bonding and insurance requirements.
- 2. Was the DBE's bid non-competitive (i.e., more than 10% higher than the accepted bid)?  Yes  No
- 3. Did the DBE indicate it was unable to perform in some capacity?  Yes  No If "Yes", explain: \_\_\_\_\_

**D. CERTIFICATION:** I certify that the information provided above is accurate and that efforts to solicit bids were made in good faith.

\_\_\_\_\_  
Signature of Prime (General) Contractor Title Date

## INSTRUCTIONS

### FIRM CONTACTED:

Enter name, address, and phone number of firm as it appears in the current Alaska DOT&PF DBE directory.

### SPECIFIC WORK OR MATERIALS:

Identify the specific work item or material that you requested this firm to furnish.

#### A. INITIAL CONTACT: (Must be made at least seven calendar days prior to bid opening.)

1. Date and Method of Initial Contact: Indicate the method and date that actual contact was made or the date correspondence was postmarked. Leaving a "please call me" message does not constitute a contact. Attach a copy of dated letter or fax.
2. Name and Title of Person Contacted: Enter name and title of company representative with whom you corresponded or discussed submitting a bid.
3. DBE's Response: Check the appropriate boxes. If a firm bid was received and accepted, skip to section D.

#### B. FOLLOW-UP CONTACT:

If no response or an inconclusive response was received from the initial contact, a follow-up contact is required to determine for a certainty that the firm does not intend to submit a bid or to conclude discussions with a bid.

1. Date and Method of Follow-up Contact: Indicate the method and date that actual contact was made or the date correspondence was postmarked. Leaving a "please call me" message does not constitute a contact. Attach a copy of dated letter or fax.
2. Name and Title of Person Contacted: Enter name and title of company representative with whom you corresponded or discussed submitting a bid.
3. DBE's Response: Check the appropriate boxes. If a firm bid was received and accepted, skip to section D.

#### C. EXPLANATION OF FAILURE TO ACHIEVE AN ACCEPTABLE BID:

Check the appropriate box and provide explanation.

#### D. CERTIFICATION:

This certification of accuracy and Good Faith Effort by the Contractor to solicit bids from DBEs may be verified by contacting the listed firm. Failure to comply with the provisions of this section is a material breach that may result in failure to award a contract, contract termination, or other remedy as CBJ deems appropriate.

Questions? Please contact the DBE Administrator at (907) 789-7821.



CITY AND BOROUGH OF JUNEAU  
**SUMMARY OF GOOD FAITH EFFORT DOCUMENTATION**

FAA-Funded Contracts - Juneau International Airport

JNU SAND SHED DEMOLITION  
 Contract No. BE20-187

**Prime Contractor must submit this form if the DBE Utilization Goal was not met.**

Prime Contractor: \_\_\_\_\_

In the spaces provided below, list all items considered for DBE utilization. If needed, list additional items and comments on reverse side. Attach completed DBE Contact Reports.

(A) Material or Specific Item of Work (Specify Pay Item)	(B) Acceptable DBE Bid Received? (Yes/No)	(C) Number of DBEs Contacted in Alaska DOT/PF DBE Directory	(D) Number of DBEs that Responded	(E) Number of DBE Bids Received
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				

Questions? Please contact the DBE Administrator at (907) 789-7821.

## ANNUAL REPORT: SUMMARY OF PROGRESS PAYMENTS DURING FEDERAL FISCAL YEAR

FAA-Funded Contracts - Juneau International Airport

**By October 31<sup>st</sup> of each year**, the Prime Contractor/Consultant must submit this form to the DBE Administrator at the email address below, summarizing the actual progress payments between October 1 and September 30 of the preceding Federal Fiscal Year (FFY). **All payments** should be recorded on this form, including all payments received and retained by the Prime Contractor/Consultant, as well as all payments made to all Subcontractors, regardless of the amount paid or their DBE status.

### JNU SAND SHED DEMOLITION

Contract No. BE20-187

FFY 2020 Reporting Period: from October 1, 2019 through September 30, 2020.

In the table below, identify Firm Type by one of the following: Prime Contractor (P); Subcontractor (SUB); or Supplier (SUP).

Firm Name	Alaska* DBE (Yes/No)	Identify Firm Type	Work Performed	Amount Paid in This Reporting Period (FFY)	Running Totals Paid on Contract <small>(from Notice to Proceed through Sept. 30, 2019)</small>
				\$	\$

\* To be considered an Alaskan DBE for this report, the firm must have achieved Alaska DBE certification prior to execution of this contract.

The undersigned attests that the information being provided herein is accurate and complete to the best of their knowledge. Further, the undersigned authorizes the City & Borough of Juneau, Juneau International Airport to verify the accuracy of the information provided.

Failure to comply with requirements of the DBE Program is a material breach that may result in contract termination or other remedy as the DBE Administrator deems appropriate.

\_\_\_\_\_  
Signature & Title of Prime Contractor/Consultant Representative \_\_\_\_\_  
Date

Questions? Please contact the DBE Administrator at (907) 789-7821 or JNU.DBE@jnuairport.com

**SECTION 00 5430 - FEDERAL VETS 4212  
FEDERAL CONTRACTOR VETERANS' EMPLOYMENT REPORT VETS-4212**

OMB NO: 1293-0005

Expires: 03/31/2021

Persons are not required to respond to this collection of information unless it displays a valid OMB number. It is mandatory for a covered Federal contractor respond to this information collection. See 38 U.S.C. § 4212(d) and "Who Must File" section of instructions.

**RETURN COMPLETED REPORT TO:**

VETS-4212 Submission  
VETERANS' EMPLOYMENT AND TRAINING SERVICE (VETS)  
Service Center

In care of: Department of Labor National Contact Center (DOL-NCC)  
7425 Boston Blvd  
Springfield, VA 22153

ATTN: Human Resource/EEO Department

<b>TYPE OF REPORTING ORGANIZATION</b> (Check one or both, as applicable) Prime Contractor Subcontractor	<b>TYPE OF FORM</b> (Check only one) Single Establishment Multiple Establishment-Headquarters Multiple Establishment-Hiring Location Multiple Establishment-State Consolidated (specify number of locations) (MSC)
--	---

COMPANY IDENTIFICATION INFORMATION (Omit items preprinted above-ADD Company Contact Information Below)

COMPANY No:	TWELVE MONTH PERIOD ENDING								2	0	1	9
NAME OF PARENT COMPANY:	ADDRESS (NUMBER AND STREET):											
CITY:	COUNTY:				STATE:				ZIP CODE:			
NAME OF COMPANY CONTACT:	TELEPHONE FOR CONTACT:				EMAIL:							

NAME OF HIRING LOCATION:	ADDRESS (NUMBER AND STREET):											
CITY:	COUNTY:				STATE:				ZIP CODE:			

NAICS:																	DUNS:			-										EMPLOYER ID (IRS TAX No.)			-									
--------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-------	--	--	---	--	--	--	--	--	--	--	--	--	------------------------------	--	--	---	--	--	--	--	--	--	--	--	--

**INFORMATION ON EMPLOYEES**

REPORT THE TOTAL NUMBER OF EMPLOYEES AND NEW HIRES WHO ARE PROTECTED VETERANS, AS DEFINED IN THE INSTRUCTIONS. DATA ON NUMBER OF EMPLOYEES ARE TO BE ENTERED IN COLUMN A AND B, LINES 1.1 THROUGH 9. DATA FOR NEW HIRES ARE ENTERED IN COLUMNS C AND D. LINE 10 IS TOTAL OF EACH COLUMN. ENTRIES IN COLUMNS C AND D, LINES 1.1 THROUGH 9 (GRAY SHADED AREAS) ARE OPTIONAL. ENTER THE MAXIMUM AND MINIMUM NUMBER OF EMPLOYEES.				
JOB CATEGORIES	NUMBER OF EMPLOYEES		NEW HIRES (PREVIOUS 12 MONTHS)	
	PROTECTED VETERANS (A)	TOTAL EMPLOYEES (B)	PROTECTED VETERANS (C)	TOTAL NEW HIRES (D)
EXECUTIVE/SENIOR LEVEL OFFICIALS AND MANAGERS 1.1				
FIRST/MID LEVEL OFFICIALS AND MANAGERS 1.2				
PROFESSIONALS 2				
TECHNICIANS 3				
SALES WORKERS 4				
ADMINISTRATIVE SUPPORT WORKERS 5				
CRAFT WORKERS 6				
OPERATIVES 7				
LABORERS/HELPERS 8				
SERVICE WORKERS 9				
TOTAL EMPLOYEES 10				

Report the total maximum and minimum number of permanent employees during the period covered by this report.

Maximum Number      Minimum Number

## SECTION 00 5430 - FEDERAL VETS 4212

### Federal Contractor Veterans' Employment Report (VETS-4212)

**WHO MUST FILE:** This VETS-4212 Report is to be completed by all nonexempt Federal contractors and subcontractors with a contract or subcontract in the amount of \$150,000 or more with any department or agency of the United States for the procurement of personal property or non-personal services. Services include but are not limited to the following services: utility, construction, transportation, research, insurance, and fund depository, irrespective of whether the government is the purchaser or seller. Entering into a covered Federal contract or subcontract during a given calendar year establishes the requirement to file a VETS-4212 Report during the following calendar year.

**WHEN TO FILE:** This annual report must be filed no later than September 30.

**LEGAL BASIS FOR REPORTING REQUIREMENTS:** Title 38, United States Code, Section 4212(d) mandates that Federal contractors and subcontractors subject to the statute's affirmative action provisions in 38 U.S.C. 4212(a) report, at least annually, the number of employees in their workforces by job category and hiring location, and the number of such employees, by job category and hiring location, who are qualified protected veterans. In addition, Federal contractors and subcontractors must report the total number of new hires during the period covered by the report and the number of such new hires who are qualified protected veterans. Further, Federal contractors and subcontractors must report on the maximum and minimum number of employees during the period covered by the report. The Department of Labor's Veterans' Employment and Training Service (VETS) has promulgated regulations found at 41 CFR part 61-300 to implement the reporting requirements of 38 U.S.C. 4212(d). The regulations require contractors and subcontractors to file the VETS-4212 Report to comply with the requirements of 38 U.S.C. 4212(d). The regulations in 41 CFR part 61-300 can be found at [http://www.dol.gov/dol/cfr/Title\\_41/Chapter\\_61.htm](http://www.dol.gov/dol/cfr/Title_41/Chapter_61.htm).

**HOW TO FILE THE VETS-4212 REPORT:** The preferred method for filing VETS-4212 Reports is electronically through the VETS web-based filing system. Instructions for electronically filing the VETS-4212 Report are found on the VETS website at <http://www.dol.gov/vets/vets4212.htm>. Alternative filing methods are described below in these instructions.

**Single Establishment Employers:** Employers doing business at one hiring location may complete and submit a single VETS-4212 Report using the web-based filing system, or submit a single paper version of the VETS-4212 Report, as described below under Alternative Filing Methods.

**Multi-Establishment Employers:** Employers doing business at more than one hiring location, must file: (A) a VETS-4212 Report covering the principal or headquarters office; (B) a separate VETS-4212 Report for each hiring location employing 50 or more persons; and (C) EITHER, (i) a separate VETS-4212 Report for each hiring location employing fewer than 50 persons, OR (ii) consolidated reports that cover hiring locations within one State that have fewer than 50 employees. Multi-establishment employers doing business at more than 10 locations must submit their VETS-4212 Reports in the form of an electronic data file that complies with current Department of Labor specifications for the format of these records, and any other specifications established by the Department for the applicable reporting year. Multi-establishment employers with fewer than 10 hiring locations are strongly encouraged to submit their VETS-4212 Reports in the form of an electronic data file, but are not required to do so. In these cases, state consolidated reports count as one location each. VETS-4212 Reports in the form of electronic data files may be submitted through the web-based filing system. Electronic data files also may be transmitted electronically as an e-mail attachment (if they do not exceed the size stated in the specifications), or submitted on compact discs or other electronic storage media.

## SECTION 00 5430 - FEDERAL VETS 4212

**ALTERNATIVE FILING METHODS:** The VETS-4212 Report may also be filed in paper format. Reporting organizations may download a paper version of the VETS-4212 Report from the VETS website at <http://www.dol.gov/vets/vets4212.htm> or send a written request for the paper version of the VETS-4212 Report to: Office of the Assistant Secretary for Veterans' Employment and Training, U.S. Department of Labor, 200 Constitution Avenue, NW, Room S-1325, Washington, DC 20210, Attn: VETS-4212 Report Form Request.

**WHERE TO FILE:** VETS-4212 Reports in paper format or electronic data files on compact discs or other electronic storage media may be delivered by U.S. mail or courier delivery service to: Veterans' Employment and Training Service, c/o Department of Labor National Contact Center, 7425 Boston Blvd Springfield, VA 22153. Paper copies of the VETS-4212 Reports and electronic data files (if they do not exceed the size stated in the specifications) also may be sent as e-mail attachments to: [VETS4212-customersupport@dol.gov](mailto:VETS4212-customersupport@dol.gov)

**HOW TO PREPARE THE VETS-4212 REPORT:** All fields and answers to questions in all areas of the VETS-4212 Report are mandatory unless otherwise specified below. If the multi-establishment employer has hiring locations employing fewer than 50 persons, the employer may file separate reports for each hiring location or consolidated reports that cover multiple hiring locations within one state.

**Type of Reporting Organization:** Indicate the type of contractual relationship (prime contractor or subcontractor) that the organization has with the Federal Government. If the organization serves as both a prime contractor and a subcontractor on various federal contracts, check both boxes. If a reporting organization submits only one VETS-4212 Report for a single location, check the Single Establishment box. If the reporting organization submits more than one VETS-4212 Report, one report should be checked as Multiple Establishment-Headquarters. The remaining VETS-4212 Reports should be checked as either Multiple Establishment-Hiring Location or Multiple Establishment-State Consolidated. For state consolidated reports, the number of hiring locations included in that report should be entered in the space provided. For each report, only one box should be checked within this block.

**Company Identification Information:** . Please note: If a Federal Contractor Report has been filed in the past, you need to utilize the company number assigned in previously submitted reports. If a company number is not available please leave the field blank. If there are any questions regarding a Company Number, please call the VETS-4212 Customer Support Center at (866) 237-0275 or e-mail [VETS4212-customersupport@dol.gov](mailto:VETS4212-customersupport@dol.gov).

**Twelve Month Period Ending:** Enter the end date for the twelve month reporting period used as the basis for filing the VETS-4212 Report. To determine this period, select a date in the current year between July 1 and August 31 that represents the end of a payroll period. The selected date will be the basis for reporting the Number of Employees, as described below. The twelve-month period preceding that date is your twelve-month covered period. This period is the basis for reporting New Hires, as described below. Any Federal contractor or subcontractor that has written approval from the Equal Employment Opportunity Commission to use December 31 as the ending date for the EEO-1 Report may also use that date as the ending date for the payroll period selected for the VETS-4212 Report.

**Name and Address for Single Establishment Employers:** Complete the identifying information under the Parent Company name and address section.

**Name and Address for Multi-Establishment Employers:** For parent company headquarters location, complete the name and address for the parent company headquarters and leave blank the name and address of the Hiring Location. For hiring locations of a parent company, complete the address for the Parent Company location, complete the name and address for the Hiring Location.

## SECTION 00 5430 - FEDERAL VETS 4212

**NAICS Code, DUNS Number, and Employer ID Number:** Single Establishment and Multi-Establishment Employers must complete the North American Industry Classification System (NAICS) Code, Dun and Bradstreet I.D. Number (DUNS), and Employer Identification Number (EIN) as described below:

- **NAICS Code:** Enter the six (6) digit NAICS Code applicable to the hiring location for which the report is filed. If there is not a separate NAICS Code for the hiring location, enter the NAICS Code for the Parent Company.
- **DUNS Number:** If there is a specific Dun and Bradstreet Identification applicable to the hiring location for which the report is filed, please enter the nine (9) digit in the space provided. If the hiring location does not have a DUNS Number, enter the DUNS number for the Parent Company. If an appropriate DUNS Number cannot be identified, leave this field blank.
- **Employer I.D. Number (EIN):** Enter the nine (9) digit number assigned by the I.R.S. to the contractor. If there is a specific EIN applicable to the hiring location for which the report is filed, enter that EIN. Otherwise, enter the EIN for the Parent Company.

**Number of Employees:** Report the total number of employees who are protected veterans for each of the 10 occupational categories (Lines 1.1 through 9) in column A. Report the total number of employees, including protected veterans, for each of the 10 occupational categories (Lines 1.1 through 9) in column B. Blank spaces will be considered zeros.

**New Hires (Previous 12 Months):** Report the total number of employees who were hired and included in the payroll for the first time during the 12-month period preceding the ending date of the selected payroll period. Report the total number of new hires who are protected veterans in column C. Report the total number of new hires, including protected veterans, in column D. Providing new hire data for each of the occupational categories (columns C and D, lines 1.1 through 9) is optional. Blank spaces will be considered zeros.

**Maximum/Minimum Employees:** Report the maximum and minimum number of employees on board during the twelve-month period covered by this report, as indicated by 41 CFR 61-300.10(a)(3).

### DEFINITIONS:

**'Employee'** – means any individual on the payroll of an employer who is an employee for purposes of the employer's withholding of Social Security taxes except insurance sales agents who are considered to be employees for such purposes solely because of the provisions of 26 U.S.C. 3121 (d)(3)(B) (the Internal Revenue Code). Part-time employees and leased employees are included in the definition of 'employee.' The definition does not include persons hired on a casual basis for a specific job ( e.g., persons at a construction site whose employment relationship is expected to terminate with the end of the employee's work at the site); persons employed temporarily in an industry other than construction who are hired through a hiring hall or some other referral arrangement; or persons on the payroll of an employment agency who are referred by such agency for work to be performed on the premises of another employer under that employer's direction and control, as provided in 41 CFR 61-300.2(b)(5).

**'Hiring location'** – means an establishment as defined at 41 CFR 61-300.2(b)(6).

**'Job Categories'** – means any of the following: Officials and Managers (Executive/Senior Level Officials and Managers and First/Mid-Level Officials and Managers), Professionals, Technicians, Sales Workers, Administrative Support Workers, Craft Workers, Operatives, Laborers and Helpers, and Service Workers and are defined in 41 CFR 61-300.2(b)(7).

**'Protected Veteran'** – means a veteran who is protected under the nondiscrimination and affirmative action provisions of the Vietnam Veterans' Readjustment Assistance Act, 38 U.S.C. 4212; specifically a veteran who may be classified as an active duty wartime or campaign badge veteran, disabled veteran, Armed Forces service medal veteran, or recently separated veteran,

## SECTION 00 5430 - FEDERAL VETS 4212

- **'Active duty wartime or campaign badge Veteran'** – means a veteran who served on active duty in the U.S. military, ground, naval or air service during a war or in a campaign or expedition for which a campaign badge has been authorized under the laws administered by the Department of Defense.
- **'Armed Forces Service Medal Veteran'** – means any veteran who, while serving on active duty in the U.S. military, ground, naval or air service, participated in a United States military operation for which an Armed Forces service medal was awarded pursuant to Executive Order 12985 (61 FR 1209, 3 CFR, 1996 Comp., p. 159).
- **'Disabled Veteran'** – means (1) A veteran of the U.S. military, ground, naval or air service who is entitled to compensation (or who but for the receipt of military retired pay would be entitled to compensation) under laws administered by the Secretary of Veterans Affairs, or (2) A person who was discharged or released from active duty because of a service-connected disability.
- **'Recently Separated Veteran'** – means a veteran during the three-year period beginning on the date of such veteran's discharge or release from active duty in the U.S. military, ground, naval or air service.

**RECORD KEEPING:** Employers must keep a copy of the completed annual VETS-4212 Report(s) submitted to DOL for a period of three years.

**Public Burden Statement:** Public reporting burden for this collection is estimated to average 20 minutes per location to make an electronic filing and 40 minutes per location to make a paper filing, including the time for reviewing instructions, searching existing data source, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to the Department of Labor, Veterans' Employment and Training Service, Office of Information Management, Room N-1316, 200 Constitution Avenue, NW, Washington D.C. 20210 or electronically transmitted to [VETS4212-customersupport@dol.gov](mailto:VETS4212-customersupport@dol.gov) All completed VETS-4212 Reports should be sent to the address indicated on the front of the form. See actual VETS-4212 Report for additional disclosures.

## SECTION 00 5500 – FEDERAL EEO BID CONDITIONS

### PART 1 - GENERAL

#### 1.1 GENERAL

##### A. Definitions. As used in these Specifications:

1. “Covered area” means the geographical area described in the solicitation from which this contract resulted;
2. “Director” means Director, Office of Federal contract Compliance Programs (OFCCP), United States Department of Labor (DOL), or any persons to whom the Director delegates authority;
3. “Employer” identification number” means the Federal Social Security number used on the Employer’s Quarterly Federal Tax Return, U.S. Treasury Department Form 941.
4. “Minority” includes:
  - a. Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);
  - b. Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central of South American or other Spanish culture or origin, regardless of race);
  - c. Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and
  - d. American Indian or Alaska Native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).

##### B. Whenever the Contractor, or any Subcontractor at any tier, subcontract a portion of the Work, involving any construction trade, it shall physically include in each Subcontract in excess of \$10,000 the provisions of these Specification and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.

##### C. The Contractor shall implement the specific affirmative action standards provided in paragraphs F1 through F16 of these Specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. The Contractor is expected to make substantially uniform progress toward its goal in each craft during the period specified.

Covered construction contractors performing construction Work in geographical areas where they do not have a federal or federally-assisted construction contract shall apply the minority and female goals established for the geographical area where the Work is being performed. Goals are published periodically in the Federal Register in notice form, and such notices may be obtained from any OFCCP office or from federal procurement contracting officers.

##### D. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor’s obligations under this Specification, Executive Order 11246, or the regulations promulgated pursuant thereto.



## SECTION 00 5500 – FEDERAL EEO BID CONDITIONS

- E. In order for the non-working training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period of an approved training program and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities.
- F. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with this Specification shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative actions steps at least as extensive as the following:
1. Ensure and maintain a working environment free of harassment, intimidation; and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to Work. The Contractor, where possible, shall assign two or more women to each construction project. The Contractor shall specifically ensure that all superintendents and other on-site supervisory personnel are aware of and carry out the Contractor's obligations to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.
  2. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organization's responses.
  3. Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor, by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefor, along with whatever additional actions the Contractor may have taken.
  4. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or women sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
  5. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the DOL. The Contractor shall provide notice of these programs to the sources complied under F2 above.
  6. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction Work is performed.

## **SECTION 00 5500 – FEDERAL EEO BID CONDITIONS**

7. Review, at least annually, the company's EEO policy and affirmative action obligations under these Specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with on-site supervisory personnel such as Superintendent, etc., prior to the initiation of construction Work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and dispositions of the subject matter.
  8. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other contractors and subcontractors with whom the Contractor does or anticipates doing business.
  9. Direct its recruitment efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.
  10. Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of the Contractor's workforce.
  11. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR 60-3.
  12. Conduct at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
  13. Ensure that seniority practices, job classifications, Work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel, and employment related activities to ensure that the EEO policy and the Contractor's obligations under these Specifications are being carried out.
  14. Ensure that all facilities and company activities are nonsegregated except that separate or single-used toilet, necessary changing facilities and necessary sleeping facilities shall be provided to assure privacy between the sexes.
  15. Document and maintain a record of all solicitations of offers for Subcontractors from minority and female construction contractors and suppliers, including circulations of solicitations to minority and female contractor associations and other business associations.
  16. Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.
- G. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations F1 through F16. The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the Contractor is a member and participant, may be asserted as fulfilling any or more of its obligations under F1 through F16 of these Specifications provided that the Contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of

## SECTION 00 5500 – FEDERAL EEO BID CONDITIONS

the program are reflected in the Contractor's minority and female work force participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.

- H. A single goal for minorities and a separate goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally the Contractor may be in violation of the Executive Order if a specific minority group of women is under utilized.)
- I. The Contractor shall not use the goals and timetables of affirmative action standards to discriminate against any person because of race, color, religion, sex, or national origin.
- J. The Contractor shall not enter into any Subcontract with any person or firm debarred from government contracts pursuant to Executive Order 11246.
- K. The Contractor shall carry out such sanctions or penalties for violation of these Specifications and of the Equal Opportunity Clause, including suspension, termination and cancellation of existing Subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the OFCCP. Any contractor who fails to carry out such sanctions and penalties shall be in violation of these Specifications and Executive Order 11236, as amended.
- L. The Contractor, in fulfilling its obligations under these Specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph F of these Specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunities. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations or these Specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.
- M. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government and to keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation, if any, employee identification number when assigned, social security number, race, sex, status (e.g. mechanic apprentice, trainees, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that the existing records satisfy this requirement, contractors shall not be required to maintain separate records.
- N. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish difference standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g. those under the Public Works Employment Act of 1977 and the Community Development Block Grant Programs).

**SECTION 00 5500 – FEDERAL EEO BID CONDITIONS**

- O. The bidder’s attention is called to the “Equal Employment Clause” and the “Standard Federal Equal Employment Opportunity Construction Contract Specifications” set forth herein.
- P. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor’s aggregate work force in each trade on all construction work in the covered area, are as set forth in item S.

These goals as listed in Item S are applicable to all the Contractor’s construction Work (whether or not it is federal or federally-assisted) performed in the covered area.

The Contractor’s compliance with the Executive Order and the regulations in 41 CFR 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the Specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. If the Contractor performs construction Work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the Work is actually performed. With regard to this second area, the Contractor also is subject to the goals for both its federally and non-federally involved construction.

The hours on minority and female employment and training must be substantially uniform throughout the length of the contract and in each trade. The Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from contractor to contractor or from project to project for the sole purpose of meeting the Contractor’s goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR 60-4. Compliance with the goals will be measured against the total WORK hours performed.

- Q. The Contractor shall provide written notification to the Owner, for all subcontract documents as follows: the name, address and telephone number of Subcontractors and their employer identification number; the estimated dollar amount of the subcontracts; estimated starting and completion dates of the subcontracts; and the geographical area in which the contract is to be performed.

This written notification shall be required for all construction subcontracts in excess of \$10,000 at any tier for construction Work under the contract resulting from this Project’s solicitation.

- R. As used in the Bid Notice, and in the contract resulting from this project’s solicitation, the “covered area” is the State of Alaska.

S. Goal and Timetable

- 1. The following goal and timetable for female utilization shall be included in all federal and federally-assisted construction contracts and subcontracts in excess of \$1,000. The goal is applicable to the Contractor’s aggregate on-site construction work force whether or not part of that work force is performing Work on a federal or federally-assisted construction contractor or subcontract.

**ALASKA GOAL AND TIMETABLE FOR WOMEN\***

<u>Timetable</u>	<u>Goal</u> **
Until Further Notice	6.9%

**SECTION 00 5500 – FEDERAL EEO BID CONDITIONS**

- 2. The following goals and timetable for minority utilization shall be included in all federal or federally-assisted construction contracts and subcontracts in excess of \$10,000 to be performed in Alaska. The goals are applicable to the Contractor’s aggregate on-site construction work force whether or not part of that work force is performing Work on a federal or federally-assisted construction contract or subcontract.

**ALASKA GOAL AND TIMETABLE FOR MINORITY UTILIZATION**

<u>Timetable</u>	<u>Economic Area (ES)***</u>	<u>Goal **</u>
Until Further Notice	Anchorage SMSA Area	8.7%
	Remainder of State	15.1%

\* The goal and timetable for women listed above applies to Alaska as well as nationwide.

\*\* The Director, from time to time, shall issue goals and timetables for minority and female utilization which shall be based on appropriate work force, demographic or other relevant data and which shall cover construction projects, or construction contracts performed in specific geographical areas. The goals shall be applicable to each construction trade in a covered contractor’s or subcontractor’s entire work force which is working in the area covered by the goals and timetables, shall be published as notices in the Federal Register, and shall be inserted by the contracting officers and applicants, as applicable, in the Notice required by 41 CFR 60-4.2. Covered construction contractors performing construction Work in geographical areas where they do not have a federal or federally-assisted construction contract shall apply the minority and female goals established for the geographical area where the Work is being performed.

\*\*\* Refer to the Standard Metropolitan Statistical Areas (SMSA) and Economic Areas (EA), office of Management and Budget, 1975.

**PART 2 - PRODUCTS (Not Used)**

**PART 3 - EXECUTION**

- A. Complete the following forms (included as part of this section). Items 1-4 will be due with the Agreement and other information required in the Notice of Intent to Award.
  - 1. EEO-1 Certification Federal Aid contracts
  - 2. EEO Estimated Employment Profile
  - 3. EEO Notice to Labor Unions, Minority/Women Organization
  - 4. EEO Signature Page
  - 5. EEO Weekly Payroll Report

**SECTION 00 5500 – FEDERAL EEO BID CONDITIONS**

CITY AND BOROUGH OF JUNEAU

**EEO-1 CERTIFICATION**

US DOT Federal-Aid Contracts

**JNU SAND SHED DEMOLITION**

**BE20-187**

This certification is required by the Equal Employment Opportunity Regulations of the Secretary of Labor [41 CFR 60-1.7 (b) (1)] and must be completed by the successful Bidder and each proposed Subcontractor participating in this contract.

**PLEASE CHECK APPROPRIATE BOXES**

The  Bidder  Proposed Subcontractor hereby CERTIFIES:

**PART A.** Bidders and proposed Subcontractors with 50 or more year-round employees and a federal contract amounting to \$50,000 or more are required to submit one federal Standard Report Form 100 during each year that the two conditions exist (50 employees and a \$50,000 federal contract).

The company named below (Part C) is exempt from the requirements of submitting the Standard Report Form 100 this year.

NO (go to PART B)  YES (go to PART C)

Instructions and blank Standard Report Form 100's may be obtained from a local U.S. Department of Labor office, or by writing to:

US Department of Labor  
The Joint Reporting Committee  
P.O. Box 19100  
Washington, D.C. 20036-9100

Telephone number: (757) 461-1213

**PART B.** The company named below has submitted the Standard Report Form 100 this year.

NO  YES

**Note:** Bidders and proposed Subcontractors who have not filed the required Standard Report Form 100 and are not exempt from filing requirements will not be awarded this contract or subcontract until Form 100 has been filed for the current year ending June 30.

**PART C.**

\_\_\_\_\_  
Signature of Authorized Company Representative Title

\_\_\_\_\_  
Company Name Company Address (Street or PO Box, City, State, Zip)

\_\_\_\_\_  
Date ( ) Phone Number

**SECTION 00 5500 – FEDERAL EEO BID CONDITIONS**

**EQUAL EMPLOYMENT OPPORTUNITY (EEO)**

**Estimated Employment Profile**

Firm: \_\_\_\_\_ Prepared By: \_\_\_\_\_

In response to the Notice of Intent to Award letter, **the prime Contractor and each Subcontractor must submit a complete profile**

Total Number of Employees to Work on Project:	Male _____	Female _____
Projected Tradeworker Hours <sup>1</sup> :	Male _____	Female _____
Total Number of Minorities to Work on Project:	Male _____	Female _____
Projected Minority Tradeworkers Hours <sup>2</sup> :	Male _____	Female _____
Projected Tradeworker Goal Attainment <sup>3</sup> :	Minority _____%	Female _____%

List the number and gender of ALL tradeworkers anticipated on this Project:

<b>Trade<sup>4</sup></b>	<b>Asian-Indian</b>	<b>Asian-Pacific</b>	<b>Black</b>	<b>Hispanic</b>	<b>Native</b>	<b>White</b>
<i>Crew Supervisor<sup>5</sup></i>						
_____						
_____						
_____						
_____						

Apprentices or Trainees

\_\_\_\_\_

<sup>1</sup>Total for all tradeworkers (including minorities and females).

<sup>2</sup>Minority female tradeworker hours may count toward only one goal, either female or minority, **but not both**. If a minority female’s hours are counted as minority, rather than female, add her hours to those of the male minorities’ before calculating projected goal attainment.

<sup>3</sup>To calculate project goal attainment: Add total male to total female hours to determine the total hours for the job. Divide the minority hours by the total hours for the job; the percentage result is the projected minority goal. Divide female hours by the total hours for the job, the percentage result is the projected female goal.

<sup>4</sup>List Journey Trades, such as *Carpenter, Electrician, Ironworker, Laborer, Painter, Plumber, Power Equipment Operator*, etc.

<sup>5</sup>Example:

Trade	Asian-Indian	Asian-Pacific	Black	Hispanic	Native	White
<i>CREW SUPERVISOR</i>					<i>1M</i>	
<i>PILEDRIVER</i>				<i>2M</i>	<i>1F</i>	
<i>APPRENTICE (OPERATING ENGINEER)</i>			<i>1M</i>			

**SECTION 00 5500 – FEDERAL EEO BID CONDITIONS**

**EQUAL EMPLOYMENT OPPORTUNITY (EEO)**

Notice to Labor Unions, Minority/Women Organizations

To be completed by each Contractor and Subcontractor, regardless of the value of their contract. If no union, job service program, or labor organization is involved write and attach a letter stating how employees were recruited.

To: \_\_\_\_\_  
(Name of labor union or other employment organization)

We currently hold a prime contract, or subcontract with the City and Borough of Juneau which involves federal funds. Under the provisions of the contract and all subcontracts, in accordance with Section 202 of Executive Order No. 11246 as amended, we are obliged not to discriminate against any employee or applicant for employment because of race, color, creed, national origin, age, or sex. This obligation not to discriminate in employment includes, but is not limited to: employment, upgrading, transfer, demotion, recruitment, and advertising; rates of pay or other forms of compensation; selection for training including apprenticeship; and layoff or termination.

We will post this notice in conspicuous places available to employees or applicants for employment.

\_\_\_\_\_  
(Firm)

EEO Representative at Job Site	Date	EEO Representative at Office	Date

**↓ To be completed by labor union or other organization ↓**

The \_\_\_\_\_ agrees to comply with all applicable  
(Name of labor union or other labor organization)

federal, state, and local laws\* regarding non-discrimination\*\* in employment.\*\*\* We also agree to provide the Employer with all information necessary to enable it to comply with these laws,\* including the preparation and filing of any necessary reports.

\*Laws include regulations, rules, directives and orders, including those by the Equal Opportunity Commission, the Office of Federal contract Compliance, the United States Department of Labor, and the federal funding agency when applicable to WORK performed on this contract.

\*\* Non-discrimination includes freedom from discrimination because of race, color, national origin, creed, religion, age or sex.

\*\*\* Employment includes acceptance, selection, classification and referral of applicants for membership and/or employment.

\_\_\_\_\_  
Name and Title of Labor Representative

\_\_\_\_\_  
Signature Date



**SECTION 00 5500 – FEDERAL EEO BID CONDITIONS**

**EQUAL EMPLOYMENT OPPORTUNITY (EEO)**

**Signature Page**

In response to the Notice of Intent to Award letter, the Prime Contractor and each Subcontractor **must** complete and return this Signature Page and be current with all EEO\* filing requirements.

\* contracts and Subcontracts which do not exceed \$10,000 are exempt from the requirements of the equal opportunity clause, provided, that where a contractor has contracts or subcontracts containing federal assistance in any 12-month period, which have an aggregate total value (or can reasonably be expected to have an aggregate total value) exceeding \$10,000, this \$10,000 or under exemption does not apply (regardless of whether any single contract exceeds \$10,000.)

I certify that I have met all applicable EEO requirements and all attached documents are complete and correct. I understand that any false statements made to meet any requirement will result in contract termination and/or action under Federal or State law. I swear that neither the firm, nor its owners or principals, is debarred or suspended from contracting with any government agency.

Firm \_\_\_\_\_ Capacity: Prime  Sub

Type of WORK \_\_\_\_\_ Employer ID No. \_\_\_\_\_

Estimated Start Date \_\_\_\_\_ Estimated Finish Date \_\_\_\_\_

contract or Subcontract Amount \$ \_\_\_\_\_ Agreement Date \_\_\_\_\_

Authorized Signature \_\_\_\_\_ Date \_\_\_\_\_

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

Firm's DBE Officer \_\_\_\_\_

Firm's EEO Officer \_\_\_\_\_

Street Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

PHONE \_\_\_\_\_ FAX \_\_\_\_\_

**SECTION 00 5500 – FEDERAL EEO BID CONDITIONS**

**EQUAL EMPLOYMENT OPPORTUNITY (EEO)**

**Weekly Payroll Report**

Each Contractor and each Subcontractor must complete, sign, and submit this form **each week** during the length of the contract. Subcontractors should report only for their subcontract. EEO goal compliance is measured against tradeworker hours.

Firm \_\_\_\_\_ Capacity: Prime  Sub

Type of WORK \_\_\_\_\_

Percent Complete \_\_\_\_\_ Week Ending \_\_\_\_\_

Street Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Prepared by \_\_\_\_\_ Date \_\_\_\_\_

List: Each **minority** and **female** tradeworker employee, who worked this period.

<u>Construction Trade</u> <sup>1</sup>	<u>Work Classification</u> <sup>2</sup>	<u>Ethnicity</u> <sup>3</sup>	<u>Sex</u>	<u>Employee's Name</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Tradeworker Totals: Entire Crew: Hrs. # \_\_\_\_\_ Hrs. \_\_\_\_\_  
Minority: Hrs. # \_\_\_\_\_ Hrs. \_\_\_\_\_  
Female: Hrs. # \_\_\_\_\_ Hrs. \_\_\_\_\_

<sup>1</sup>i.e., Concrete, Demolition, Electrical, Iron, and Operating Engineer  
<sup>2</sup>i.e., Crew Supervisor, Journey Level, Apprentice, Helper, Etc.  
<sup>3</sup>iAI-Asian Indian, AP-Asian Pacific, B-Black, C-Caucasian, H-Hispanic, N-Native, or O-Other

**SECTION 00 5600 - FEDERAL LABOR STANDARDS, REPORTING, AND  
PREVAILING WAGE RATE DETERMINATION  
Reporting During Contract**

- A. **Within 15 Days after Notice of Intent to Award**, the Contractor must compile and submit a list of all Subcontractors and material suppliers, showing all tiers. For each company listed include name, address, phone, employer tax number; DBE status if any; estimated subcontract amount; estimated start and finish dates; and copies of bid tabulations with firm name and number. Send the list to *Addresses B and C*.
- B. **Within 30 Days of Notice to Proceed**, the Contractor and each Subcontractor, who are required to file EEO-1 reports (Standard Form 100 [SF-100]), must send it to the Office of Federal Contract Compliance Programs (OFCCP) Area Office - Address C.
- C. Before each Friday, the Contractor and each Subcontractor must file:
  - 1. Weekly Employment Opportunity (EEO) Reports (page 00 5500-11) for the previous week to *Address A*. If the information requested (race and gender) is indicated on the copy of the payroll, then this Weekly EEO Report is hereby waived.
- D. **Certified Payrolls must be submitted every two weeks.** Before the second Friday, the Contractor and each Subcontractor must file:
  - 1. Certified Payrolls with Statements of Compliance for the previous two weeks. If there was no activity for that pay period, indicate "No Activity." Indicate "Start" on your first payroll, and "Final" on your last payroll for this project. Send the original to *Address B* and a complete copy to *Address A, or another CBJ representative, as designated*

Correspondence regarding State of Alaska Department of Labor and Workforce Development (ADOL) Title 36 requirements may be submitted electronically or paper copies can be submitted by mail. To submit Title 36 documents electronically, go to <https://myalaska.state.ak.us/home/app>. If filing electronically, submit certified payrolls to ADOL at the website above and email a copy of all certified payrolls to Jennifer Mannix, or her designee, at the email address below. If Contractor elects to submit paper copies, they should be submitted to the physical addresses below.

- E. By the 5th of each month, each Contractor and Subcontractor must complete the Monthly Employment Utilization Report (CC257) for the previous month for its aggregate workforce in Alaska (for federal and non-federal projects). Make a list of all projects (federal and non-federal) in Alaska over \$10,000. Include the firm name, name and location of project, project #, % complete, contract amount, and established date of completion. Send both the CC257 and the list of projects to *Addresses A and C*.
- F. Preparing the final payment request, the Contractor must verify that the subcontractor list is up-to-date and includes all parties submitting certified payrolls (i.e., equipment rental with operator companies, trucking services providing imported materials, surveying firms, etc.). Send a copy of amended lists to *Addresses A and B*. Submit completed Compliance Certification and Release forms (section 00 6200) for the Contractor to *Address A*.

<i>Address A</i>	<i>Address B</i>	<i>Address C</i>
<b>Contract Administrator</b> Engineering Department City and Borough of Juneau 155 S. Seward Street Juneau, AK 99801 (907) 586-0873 <a href="mailto:greg.smith@juneau.org">greg.smith@juneau.org</a>	<b>Wage and Hour Section</b> AK Dept of Labor and Workforce Dev/ Labor Standards and Safety Division Wage and Hour Administration P O Box 21149 Juneau, AK 99802-1149 (907) 465-4842 <a href="http://labor.state.ak.us/lss/home.htm">http://labor.state.ak.us/lss/home.htm</a>	<b>OFCCP</b> Area Office 605 W. 4th Ave., Room G68 Anchorage, AK 99501 (907) 271-2864

# SECTION 00 5600

## APPENDIX A

General Decision Number: AK20200001

Building and Heavy Construction

Effective June 26, 2020

"General Decision Number: AK20200001 06/26/2020

Superseded General Decision Number: AK20190001

State: Alaska

Construction Types: Building and Heavy

Counties: Alaska Statewide.

**BUILDING AND HEAVY CONSTRUCTION PROJECTS** (does not include residential construction consisting of single family homes and apartments up to and including 4 stories)

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.80 for calendar year 2020 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.80 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2020. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at [www.dol.gov/whd/govcontracts](http://www.dol.gov/whd/govcontracts).

Modification Number    Publication Date

0	01/03/2020
1	01/31/2020
2	05/15/2020
3	06/26/2020

ASBE0097-001 01/01/2018

Rates            Fringes

Asbestos Workers/Insulator  
(includes application of all  
insulating materials)

protective coverings,  
 coatings and finishings to  
 all types of mechanical  
 systems).....\$ 38.68      21.57

**HAZARDOUS MATERIAL HANDLER**  
 (includes preparation,  
 wetting, stripping, removal  
 scrapping, vacuming, bagging,  
 and disposing of all  
 insulation materials, whether  
 they contain asbestos or not,  
 from mechanical systems).....\$ 37.38      19.55

BOIL0502-002 10/01/2017

	Rates	Fringes
BOILERMAKER.....	\$ 46.17	29.70

BRAK0001-002 07/01/2018

	Rates	Fringes
Bricklayer, Blocklayer, Stonemason, Marble Mason, Tile Setter, Terrazzo Worker.....	\$ 40.81	19.77
Tile & Terrazzo Finisher.....	\$ 34.79	19.62

CARP1501-001 09/01/2019

	Rates	Fringes
MILLWRIGHT.....	\$ 37.64	23.46

CARP2520-003 09/01/2019

	Rates	Fringes
Diver		
Stand-by.....	\$ 42.65	26.51
Tender.....	\$ 41.65	26.51
Working.....	\$ 82.45	26.51
Piledriver		
Piledriver; Skiff Operator and Rigger.....	\$ 38.34	26.51
Sheet Stabber.....	\$ 38.34	26.51
Welder.....	\$ 43.90	26.51

**DEPTH PAY PREMIUM FOR DIVERS BELOW WATER SURFACE:**

50-100 feet      \$1.00 per foot  
 101 feet and deeper      \$2.00 per foot

**ENCLOSURE PAY PREMIUM WITH NO VERTICAL ASCENT:**

5-50 FEET      \$1.00 PER FOOT/DAY

51-100 FEET                   \$2.00 PER FOOT/DAY  
 101 FEET AND ABOVE       \$3.00 PER FOOT/DAY

**SATURATION DIVING:**

The standby rate applies until saturation starts. The saturation diving rate applies when divers are under pressure continuously until work task and decompression are complete. the diver rate shall be paid for all saturation hours.

**WORK IN COMBINATION OF CLASSIFICATIONS:**

Employees working in any combination of classifications within the diving crew (except dive supervisor) in a shift are paid in the classification with the highest rate for that shift.

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 CARP4059-001 09/01/2019

Rates       Fringes

**CARPENTER**

Including Lather and  
 Drywall Hanging.....\$ 38.34       26.51

-----  
 ELEC1547-004 04/01/2020

Rates       Fringes

CABLE SPLICER.....\$ 41.27     3% + 27.64  
 ELECTRICIAN.....\$ 40.94     3% + 27.89

-----  
 ELEC1547-005 04/01/2020

**Line Construction**

Rates       Fringes

CABLE SPLICER.....\$ 57.79       32.04  
 Linemen (Including Equipment  
 Operators, Technician).....\$ 56.04     3%+32.04  
 Powderman.....\$ 54.04     32.04  
 TREE TRIMMER.....\$ 37.30     3%+25.79

-----  
 ELEV0019-002 01/01/2020

Rates       Fringes

ELEVATOR MECHANIC.....\$ 59.11       35.245

FOOTNOTE: a. Employer contributes 8% of the basic hourly rate for over 5 year's service and 6% of the basic hourly rate for 6 months to 5 years' of service as vacation paid credit. b. Eight paid holidays:

New Year's Day; Memorial Day; Independence Day;  
 Labor Day; Veteran's Day; Thanksgiving Day; Friday after  
 Thanksgiving, and Christmas Day

-----  
 ENGI0302-002 04/01/2020

Rates Fringes

POWER EQUIPMENT OPERATOR

GROUP 1.....	\$ 41.53	24.50
GROUP 1A.....	\$ 43.29	24.50
GROUP 2.....	\$ 40.76	24.50
GROUP 3.....	\$ 40.04	24.50
GROUP 4.....	\$ 33.83	24.50
TUNNEL WORK		
GROUP 1.....	\$ 45.68	24.50
GROUP 1A.....	\$ 47.62	24.50
GROUP 2.....	\$ 44.84	24.50
GROUP 3.....	\$ 44.04	24.50
GROUP 4.....	\$ 37.12	24.50

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Asphalt Roller: Breakdown, Intermediate, and Finish; Back Filler; Barrier Machine (Zipper); Beltcrete with power pack and similar conveyors; Bending Machine; Boat Coxwains; Bulldozers; Cableways, Highlines and Cablecars; Cleaning Machine; Coating Machine; Concrete Hydro Blaster; Cranes-45 tons and under or 150 foot boom and under (including jib and attachments): (a) Hydralifts or Transporters, all track or truck type,(b) Derricks; Crushers; Deck Winches-Double Drum; Ditching or Trenching Machine (16 inch or over); Drilling Machines, core, cable, rotary and exploration; Finishing Machine Operator, Concrete Paving, Laser Screed, Sidewalk, Curb and Gutter Machine; Helicopters; Hover Craft, Flex Craft, Loadmaster, Air Cushion, All Terrain Vehicle, Rollagon, Bargecable, Nodwell, and Snow Cat; Hydro Ax: Feller Buncher and similar; Loaders (2 1/2 yards through 5 yards, including all attachments): Forklifts with telescopic boom and swing attachment, Overhead and front end, 2 1/2 yards through 5 yards, Loaders with forks or pipe clamps; Loaders, elevating belt type, Euclid and similar types; Mechanics, Bodyman; Micro Tunneling Machine; Mixers: Mobile type w/hoist combination; Motor Patrol Grader; Mucking Machines: Mole, Tunnel Drill, Horizontal/Directional Drill Operator, and/or Shield; Operator on Dredges; Piledriver Engineers, L. B. Foster, Puller or similar Paving Breaker; Power Plant, Turbine Operator, 200 k.w. and over (power plants or combination of power units over 300 k.w.); Scrapers-through 40 yards; Service Oiler/Service Engineer; Sidebooms-under 45 tons; Shot Blast Machine; Shovels, Backhoes, Excavators with all attachments, and Gradealls (3 yards and under),



Spreaders, Blaw Knox, Cedarapids, Barber Greene, Slurry Machine; Sub-grader (Gurries, Reclaimer, and similar types); Tack tractor; Truck mounted Concrete Pumps, Conveyor, Creter; Water Kote Machine; Unlicensed off road hauler

GROUP 1A: Camera/Tool/Video Operator (Slipline), Cranes-over 45 tons or 150 foot (including jib and attachments): (a) Clamshells and Draglines (over 3 yards), (b) Tower cranes; Licensed Water/Waste Water Treatment Operator; Loaders over 5 yds.; Certified Welder, Electrical Mechanic, Camp Maintenance Engineer, Mechanic (over 10,000 hours); Motor Patrol Grader, Dozer, Grade Tractor, Roto-mill/Profiler (finish: when finishing to final grade and/or to hubs, or for asphalt); Power Plants: 1000 k.w. and over; Quad; Screed; Shovels, Backhoes, Excavators with all attachments (over 3 yards), Sidebooms over 45 tons; Slip Form Paver, C.M.I. and similar types; Scrapers over 40 yards;

GROUP 2: Boiler-fireman; Cement Hog and Concrete Pump Operator; Conveyors (except as listed in group 1); Hoist on steel erection; Towermobiles and Air Tuggers; Horizontal/Directional Drill Locator; Licensed Grade Technician; Loaders, (i.e., Elevating Grader and Material Transfer Vehicle); Locomotives: rod and geared engines; Mixers; Screening, Washing Plant; Sideboom (cradling rock drill regardless of size); Skidder; Trenching Machine under 16 inches; Waste/ Waste Water Treatment Operator.

GROUP 3: ""A"" Frame Trucks, Deck Winches: single power drum; Bombardier (tack or tow rig); Boring Machine; Brooms-power; Bump Cutter; Compressor; Farm tractor; Forklift, industrial type; Gin Truck or Winch Truck with poles when used for hoisting; Grade Checker and Stake Hopper; Hoist, Air Tuggers, Elevators; Loaders: (a) Elevating-Athey, Barber Green and similar types (b) Forklifts or Lumber Carrier (on construction job site) (c) Forklifts with Tower (d) Overhead and Front-end, under 2 1/2 yds. Locomotives: Dinkey (air, steam, gas and electric) Speeders; Mechanics (light duty); Oil, Blower Distribution; Post Hole Diggers, mechanical; Pot Fireman (power agitated); Power Plant, Turbine Operator, under 200 k.w.; Pumps-water; Roller-other than Plantmix; Saws, concrete; Skid Steer with all attachments; Straightening Machine; Tow Tractor

GROUP 4: Rig Oiler/Crane Assistant Engineer; Parts and Equipment Coordinator; Swamper (on trenching machines or shovel type equipment); Spotter; Steam Cleaner; Drill Helper.

FOOTNOTE: Groups 1-4 receive 10% premium while performing tunnel or underground work. Rig Oiler/Crane Assistant Engineer shall be required on cranes over 85 tons or over

100 feet of boom.

-----  
IRON0751-003 07/01/2019

Rates      Fringes

IRONWORKER

BRIDGE, STRUCTURAL, ORNAMENTAL, REINFORCING MACHINERY MOVER, RIGGER, SHEETER, STAGE RIGGER, BENDER OPERATOR.....	\$ 38.75	32.63
FENCE, BARRIER INSTALLER....	\$ 35.25	32.63
GUARDRAIL INSTALLERS.....	\$ 36.25	32.63
GUARDRAIL LAYOUT MAN.....	\$ 35.99	32.63
HELICOPTER, TOWER.....	\$ 39.75	32.63

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\* LABO0341-001 04/01/2020

Rates      Fringes

LABORER (South of the 63rd  
Parallel & West of Longitude  
138 Degrees)

GROUP 1.....	\$ 31.71	28.26
GROUP 2.....	\$ 32.71	28.26
GROUP 3.....	\$ 33.61	28.26
GROUP 3A.....	\$ 36.89	28.26
GROUP 3B.....	\$ 40.68	25.55
GROUP 4.....	\$ 21.28	28.26
TUNNELS, SHAFTS, AND RAISES		
GROUP 1.....	\$ 34.88	28.26
GROUP 2.....	\$ 35.98	28.26
GROUP 3.....	\$ 36.97	28.26
GROUP 3A.....	\$ 40.58	28.26
GROUP 3B.....	\$ 44.75	25.55

LABORERS CLASSIFICATIONS

GROUP 1: Asphalt Workers (shovelman, plant crew); Brush Cutters; Camp Maintenance Laborer; Carpenter Tenders; Choke Setters, Hook Tender, Rigger, Signalman; Concrete Laborer (curb and gutter, chute handler, grouting, curing, screeding); Crusher Plant Laborer; Demolition Laborer; Ditch Diggers; Dump Man; Environmental Laborer (asbestos (limited to nonmechanical systems), hazardous and toxic waste, oil spill); Fence Installer; Fire Watch Laborer; Flagman; Form Strippers; General Laborer; Guardrail Laborer, Bridge Rail Installers; Hydro-Seeder Nozzleman; Laborers (building); Landscape or Planter; Laying of Decorative Block (retaining walls, flowered decorative block 4 feet and below); Material Handlers; Pneumatic or Power Tools; Portable or Chemical Toilet Serviceman; Pump

Man or Mixer Man; Railroad Track Laborer; Sandblast, Pot Tender; Saw Tenders; Scaffold Building and Erecting; Slurry Work; Stake Hopper; Steam Point or Water Jet Operator; Steam Cleaner Operator; Tank Cleaning; Utiliwalk, Utilidor Laborer and Conduit Installer; Watchman (construction projects); Window Cleaner

GROUP 2: Burning and Cutting Torch; Cement or Lime Dumper or Handler (sack or bulk); Choker Splicer; Chucktender (wagon, airtrack and hydraulic drills); Concrete Laborers (power buggy, concrete saws, pumpcrete nozzleman, vibratorman); Culvert Pipe Laborer; Cured in place Pipelayer; Environmental Laborer (marine work, oil spill skimmer operator, small boat operator); Foam Gun or Foam Machine Operator; Green Cutter (dam work); Gunnite Operator; Hod Carriers; Jackhammer or Pavement Breakers (more than 45 pounds); Laying of Decorative Block (retaining walls, flowered decorative block above 4 feet); Mason Tender and Mud Mixer (sewer work); Pilot Car; Plasterer, Bricklayer and Cement Finisher Tenders; Power Saw Operator; Railroad Switch Layout Laborer; Sandblaster; Sewer Caulkers; Sewer Plant Maintenance Man; Thermal Plastic Applicator; Timber Faller, chain saw operator, filer; Timberman

GROUP 3: Alarm Installer; Bit Grinder; Guardrail Machine Operator; High Rigger and tree topper; High Scaler; Multiplate; Slurry Seal Squeegee Man

GROUP 3A: Asphalt Raker, Asphalt Belly dump lay down; Drill Doctor (in the field); Drillers (including, but not limited to, wagon drills, air track drills; hydraulic drills); Powderman; Pioneer Drilling and Drilling Off Tugger (all type drills); Pipelayers

GROUP 3B: Grade checker (setting or transferring of grade marks, line and grade)

GROUP 4: Final Building Cleanup

## TUNNELS, SHAFTS, AND RAISES CLASSIFICATIONS

GROUP 1: Brakeman; Muckers; Nippers; Topman and Bull Gang; Tunnel Track Laborer

GROUP 2: Burning and Cutting Torch; Concrete Laborers; Jackhammers; Nozzleman, Pumpcrete or Shotcrete.

GROUP 3: Miner; Retimberman

GROUP 3A: Asphalt Raker, Asphalt Belly dump lay down; Drill Doctor (in the field); Drillers (including, but not limited to, wagon drills, air track drills; hydraulic drills); Powderman; Pioneer Drilling and Drilling Off Tugger (all type drills); Pipelayers.

GROUP 3B: Grade checker (setting or transferring of grade marks, line and grade)

Tunnel shaft and raise rates only apply to workers regularly employed inside a tunnel portal or shaft collar.

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\* LABO0942-001 04/01/2020

Rates      Fringes

Laborers: North of the 63rd  
Parallel & East of Longitude  
138 Degrees

GROUP 1.....	\$ 31.71	28.36
GROUP 2.....	\$ 32.71	28.36
GROUP 3.....	\$ 33.61	28.36
GROUP 3A.....	\$ 36.89	28.36
GROUP 3B.....	\$ 40.68	25.65
GROUP 4.....	\$ 21.28	28.36
TUNNELS, SHAFTS, AND RAISES		
GROUP 1.....	\$ 34.88	28.36
GROUP 2.....	\$ 35.98	28.36
GROUP 3.....	\$ 36.97	28.36
GROUP 3A.....	\$ 40.58	28.36
GROUP 3B.....	\$ 44.75	25.65

LABORERS CLASSIFICATIONS

GROUP 1: Asphalt Workers (shovelman, plant crew); Brush Cutters; Camp Maintenance Laborer; Carpenter Tenders; Choke Setters, Hook Tender, Rigger, Signalman; Concrete Laborer(curb and gutter, chute handler, grouting, curing, screeding); Crusher Plant Laborer; Demolition Laborer; Ditch Diggers; Dump Man; Environmental Laborer (asbestos (limited to nonmechanical systems), hazardous and toxic waste, oil spill); Fence Installer; Fire Watch Laborer; Flagman; Form Strippers; General Laborer; Guardrail Laborer, Bridge Rail Installers; Hydro-Seeder Nozzleman; Laborers (building); Landscape or Planter; Laying of Decorative Block (retaining walls, flowered decorative block 4 feet and below); Material Handlers; Pneumatic or Power Tools; Portable or Chemical Toilet Serviceman; Pump Man or Mixer Man; Railroad Track Laborer; Sandblast, Pot Tender; Saw Tenders; Scaffold Building and Erecting; Slurry Work; Stake Hopper; Steam Point or Water Jet Operator; Steam Cleaner Operator; Tank Cleaning; Utiliwalk, Utilidor Laborer and Conduit Installer; Watchman (construction projects); Window Cleaner

GROUP 2: Burning and Cutting Torch; Cement or Lime Dumper or Handler (sack or bulk); Choker Splicer; Chucktender (wagon, airtrack and hydraulic drills); Concrete Laborers (power

buggy, concrete saws, pumpcrete nozzleman, vibratorman);  
Culvert Pipe Laborer; Cured in place Pipelayer;  
Environmental Laborer (marine work, oil spill skimmer  
operator, small boat operator); Foam Gun or Foam Machine  
Operator; Green Cutter (dam work); Gunnite Operator; Hod  
Carriers; Jackhammer or Pavement Breakers (more than 45  
pounds); Laying of Decorative Block (retaining walls,  
flowered decorative block above 4 feet); Mason Tender and  
Mud Mixer (sewer work); Pilot Car; Plasterer, Bricklayer  
and Cement Finisher Tenders; Power Saw Operator; Railroad  
Switch Layout Laborer; Sandblaster; Sewer Caulkers; Sewer  
Plant Maintenance Man; Thermal Plastic Applicator; Timber  
Faller, chain saw operator, filer; Timberman

GROUP 3: Alarm Installer; Bit Grinder; Guardrail Machine  
Operator; High Rigger and tree topper; High Scaler;  
Multiplate; Slurry Seal Squeegee Man

GROUP 3A: Asphalt Raker, Asphalt Belly dump lay down; Drill  
Doctor (in the field); Drillers (including, but not limited  
to, wagon drills, air track drills; hydraulic drills);  
Powderman; Pioneer Drilling and Drilling Off Tugger (all  
type drills); Pipelayers

GROUP 3B: Grade checker (setting or transferring of grade  
marks, line and grade)

GROUP 4: Final Building Cleanup

#### TUNNELS, SHAFTS, AND RAISES CLASSIFICATIONS

GROUP 1: Brakeman; Muckers; Nippers; Topman and Bull Gang;  
Tunnel Track Laborer

GROUP 2: Burning and Cutting Torch; Concrete Laborers;  
Jackhammers; Nozzleman, Pumpcrete or Shotcrete.

GROUP 3: Miner; Retimberman

GROUP 3A: Asphalt Raker, Asphalt Belly dump lay down; Drill  
Doctor (in the field); Drillers (including, but not limited  
to, wagon drills, air track drills; hydraulic drills);  
Powderman; Pioneer Drilling and Drilling Off Tugger (all  
type drills); Pipelayers.

GROUP 3B: Grade checker (setting or transferring of grade  
marks, line and grade)

Tunnel shaft and raise rates only apply to workers regularly  
employed inside a tunnel portal or shaft collar.

NORTH OF THE 63RD PARALLEL

Rates Fringes

PAINTER

BRUSH/ROLLER PAINT OR WALL COVERER.....	\$ 31.91	22.37
TAPING, TEXTURING, STRUCTURAL PAINTING, SANDBLASTING, POT TENDER, FINISH METAL, SPRAY, BUFFER OPERATOR, RADON MITIGATION, LEAD BASED PAINT ABATEMENT, HAZARDOUS MATERIAL HANDLER.....	\$ 32.43	22.37

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PAIN1959-002 07/01/2019

SOUTH OF THE 63RD PARALLEL

Rates Fringes

PAINTER

General Painter.....	\$ 29.75	22.52
Industrial Painter.....	\$ 31.10	22.52
Taper / Paper & Vinyl Hanger.....	\$ 31.00	22.52

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PAIN1959-003 07/01/2019

NORTH OF THE 63RD PARALLEL

Rates Fringes

GLAZIER.....	\$ 39.40	24.87
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PAIN1959-004 07/01/2019

Rates Fringes

FLOOR LAYER: Carpet.....	\$ 28.75	14.44
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PAIN1959-006 07/01/2019

SOUTH OF THE 63RD PARALLEL

Rates Fringes

GLAZIER.....	\$ 39.61	23.94
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PLAS0867-001 04/01/2019

Rates Fringes

PLASTERER

North of the 63rd parallel..\$ 38.13	21.68
South of the 63rd parallel..\$ 37.88	21.68

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PLAS0867-004 04/01/2019

Rates Fringes

CEMENT MASON/CONCRETE FINISHER

North of the 63rd parallel..\$ 38.13	21.68
South of the 63rd parallel..\$ 37.88	21.68

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PLUM0262-002 07/01/2019

East of the 141st Meridian

Rates Fringes

Plumber; Steamfitter.....\$ 38.32	27.62
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PLUM0367-002 12/03/2018

South of the 63rd Parallel

Rates Fringes

Plumber; Steamfitter.....\$ 39.00	26.70
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\* PLUM0375-002 07/01/2019

North of the 63rd Parallel

Rates Fringes

Plumber; Steamfitter.....\$ 41.46	28.70
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PLUM0669-002 04/01/2019

Rates Fringes

SPRINKLER FITTER.....\$ 47.25	26.49
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ROOF0189-006 04/01/2019

Rates Fringes

ROOFER.....\$ 44.62	16.03
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SHEE0023-003 07/01/2018

South of the 63rd Parallel

Rates Fringes

SHEET METAL WORKER.....\$ 42.70      26.40

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SHEE0023-004 07/01/2017

North of the 63rd Parallel

Rates      Fringes

SHEET METAL WORKER.....\$ 47.74      23.48

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TEAM0959-003 03/01/2019

Rates      Fringes

TRUCK DRIVER

GROUP 1.....	\$ 39.94	24.12
GROUP 1A.....	\$ 41.21	24.12
GROUP 2.....	\$ 38.68	24.12
GROUP 3.....	\$ 37.86	24.12
GROUP 4.....	\$ 37.28	24.12
GROUP 5.....	\$ 36.52	24.12

GROUP 1: Semi with Double Box Mixer; Dump Trucks (including rockbuggy and trucks with pups) over 40 yards up to and including 60 yards; Deltas, Commanders, Rollogans and similar equipment when pulling sleds, trailers or similar equipment; Boat Coxswain; Lowboys including attached trailers and jeeps, up to and including 12 axles; Ready-mix over 12 yards up to and including 15 yards); Water Wagon (250 Bbls and above); Tireman, Heavy Duty/Fueler

GROUP 1A: Dump Trucks (including Rockbuggy and Trucks with pups) over 60 yards up to and including 100 yards; Jeeps (driver under load)

GROUP 2: Turn-O-Wagon or DW-10 not self-loading; All Deltas, Commanders, Rollogans, and similar equipment; Mechanics; Dump Trucks (including Rockbuggy and Trucks with pups) over 20 yards up to and including 40 yards; Lowboys including attached trailers and jeeps up to and including 8 axles; Super vac truck/cacasco truck/heat stress truck; Ready-mix over 7 yards up to and including 12 yards; Partsman; Stringing Truck

GROUP 3: Dump Trucks (including Rockbuggy and Trucks with pups) over 10 yards up to and including 20 yards; batch trucks 8 yards and up; Oil distributor drivers; Oil Distributor Drivers; Trucks/Jeeps (push or pull); Traffic Control Technician

GROUP 4: Buggymobile; Semi or Truck and trailer; Dumpster; Tireman (light duty); Dump Trucks (including Rockbuggy and Truck with pups) up to and including 10 yards; Track Truck Equipment; Grease Truck; Flat Beds, dual rear axle; Hyster



Operators (handling bulk aggregate); Lumber Carrier; Water Wagon, semi; Water Truck, dual axle; Gin Pole Truck, Winch Truck, Wrecker, Truck Mounted "A" Frame manufactured rating over 5 tons; Bull Lifts and Fork Lifts with Power Boom and Swing attachments, over 5 tons; Front End Loader with Forks; Bus Operator over 30 passengers; All Terrain Vehicles; Boom Truck/Knuckle Truck over 5 tons; Foam Distributor Truck/dual axle; Hydro-seeders, dual axle; Vacuum Trucks, Truck Vacuum Sweepers; Loadmaster (air and water); Air Cushion or similar type vehicle; Fire Truck/Ambulance Driver; Combination Truck-fuel and grease; Compactor (when pulled by rubber tired equipment); Rigger (air/water/oilfield); Ready Mix, up to and including 7 yards;

GROUP 5: Gravel Spreader Box Operator on Truck; Flat Beds, single rear axle; Boom Truck/Knuckle Truck up to and including 5 tons; Pickups (Pilot Cars and all light duty vehicles); Water Wagon (Below 250 Bbls); Gin Pole Truck, Winch Truck, Wrecker, Truck Mounted "A" Frame, manufactured rating 5 tons and under; Bull Lifts and Fork Lifts (fork lifts with power broom and swing attachments up to and including 5 tons); Buffer Truck; Tack Truck; Farm type Rubber Tired Tractor (when material handling or pulling wagons on a construction project); Foam Distributor, single axle; Hydro-Seeders, single axle; Team Drivers (horses, mules and similar equipment); Fuel Handler (station/bulk attendant); Batch Truck, up to and including 7 yards; Gear/Supply Truck; Bus Operator, Up to 30 Passengers; Rigger/Swamper

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WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO

is available at [www.dol.gov/whd/govcontracts](http://www.dol.gov/whd/govcontracts).

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

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The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

#### Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

#### Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the

wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

#### Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

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#### WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- \* an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter
- \* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations  
Wage and Hour Division  
U.S. Department of Labor  
200 Constitution Avenue, N.W.

Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

=====

END OF GENERAL DECISION"

# SECTION 00 5600

## APPENDIX B

Laborers' & Mechanics'  
Minimum Rates of Pay

Pamphlet 600

Effective April 3, 2020

A photograph of a worker in a hard hat and respirator operating a crane hook in an industrial setting. The worker is wearing a grey long-sleeved shirt and is holding a red crane hook. The background shows a large industrial structure with a curved metal surface.

# Laborers' and Mechanics' MINIMUM RATES OF PAY

Effective April 3, 2020  
Issue 40

**PAMPHLET No. 600**

Title 36. Public Contracts  
AS 36.05

**DEPARTMENT OF LABOR  
AND WORKFORCE DEVELOPMENT**

Wage and Hour Administration

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April 3, 2020

**TO ALL CONTRACTING AGENCIES:**

At the Alaska Department of Labor and Workforce Development, our goal is putting Alaskans to work. This pamphlet is designed to help contractors awarded public construction contracts understand the most significant laws of the State of Alaska pertaining to prevailing wage.

This pamphlet identifies current prevailing wage rates for public construction contracts (any construction projects awarded for the State of Alaska or its political subdivisions, such as local governments and certain non-profit organizations). Because these rates may change in a subsequent determination, please be sure you are using the appropriate rates. The rates published in this edition become effective April 3, 2020.

The prevailing wage rates contained in this pamphlet are applicable to public construction projects with a final bid date of April 13, 2020, or later. As the law now provides, these rates will remain stable during the life of a contract or for 24 calendar months, whichever is shorter. **The 24-month period begins on the date the prime contract is awarded.** Upon expiration of the initial 24-month period, the latest wage rates issued by the department shall become effective for a subsequent 24-month period or until the original contract is completed, whichever occurs first. This process shall be repeated until the original contract is completed.

The term "original contract" means the signed contract that resulted from the original bid and any amendments, including changes of work scope, additions, extensions, change orders, and other instruments agreed to by the parties that have not been subject to subsequent open bid procedures.

If a higher federal rate is required due to partial federal funding or other federal participation, the higher rate must be paid.

For additional copies of this pamphlet go to: <http://labor.state.ak.us/lss/pamp600.htm>

For questions regarding prevailing wage or employment preference requirements, please contact the nearest Wage and Hour office. These offices are listed on Page x.

Sincerely,

A handwritten signature in black ink that reads "Tamika L. Ledbetter".

Dr. Tamika L. Ledbetter  
Commissioner



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## Wage Rates ..... Pages 1-26

**Note to Readers:** The statutes and administrative regulations listed in this publication were taken from the official codes, as of the effective date of the publication. However, there may be errors or omissions that have not been identified and changes that occurred after the publication was printed. This publication is intended as an informational guide only and is not intended to serve as a precise statement of the statutes and regulations of the State of Alaska. To be certain of current laws and regulations, please refer to the official codes.

## EXCERPTS FROM ALASKA LAW

### **Sec. 36.05.005. Applicability.**

This chapter applies only to a public construction contract that exceeds \$25,000.

### **Sec. 36.05.010. Wage rates on public construction.**

A contractor or subcontractor who performs work on a public construction contract in the state shall pay not less than the current prevailing rate of wages for work of a similar nature in the region in which the work is done. The current prevailing rate of wages is that contained in the latest determination of prevailing rate of wages issued by the Department of Labor and Workforce Development at least 10 days before the final date for submission of bids for the contract. The rate shall remain in effect for the life of the contract or for 24 calendar months, whichever is shorter. At the end of the initial 24-month period, if new wage determinations have been issued by the department, the latest wage determination shall become effective for the next 24-month period or until the contract is completed, whichever occurs first. This process shall be repeated until the contract is completed.

### **Sec. 36.05.040. Filing schedule of employees, wages paid, and other information.**

All contractors or subcontractors who perform work on a public construction contract for the state or for a political subdivision of the state shall, before the Friday of every second week, file with the Department of Labor and Workforce Development a sworn affidavit for the previous reporting period, setting out in detail the number of persons employed, wages paid, job classification of each employee, hours worked each day and week, and other information on a form provided by the Department of Labor and Workforce Development.

### **Sec. 36.05.045. Notice of work and completion; withholding of payment.**

- (a) Before commencing work on a public construction contract, the person entering into the contract with a contracting agency shall designate a primary contractor for purposes of this section. Before work commences, the primary contractor shall file a notice of work with the Department of Labor and Workforce Development. The notice of work must list work to be performed under the public construction contract by each contractor who will perform any portion of work on the contract and the contract price being paid to each contractor. The primary contractor shall pay all filing fees for each contractor performing work on the contract, including a filing fee based on the contract price being paid for work performed by the primary contractor's employees. The filing fee payable shall be the sum of all fees calculated for each contractor. The filing fee shall be one percent of each contractor's contract price. The total filing fee payable by the primary contractor under this subsection may not exceed \$5,000. In this subsection, "contractor" means an employer who is using employees to perform work on the public construction contract under the contract or a subcontract.
- (b) Upon completion of all work on the public construction contract, the primary contractor shall file with the Department of Labor and Workforce Development a notice of completion together with payment of any additional filing fees owed due to increased contract amounts. Within 30 days after the department's receipt of the primary contractor's notice of completion, the department shall inform the contracting agency of the amount, if any, to be withheld from the final payment.
- (c) A contracting agency
  - (1) may release final payment of a public construction contract to the extent that the agency has received verification from the Department of Labor and Workforce Development that
    - (A) the primary contractor has complied with (a) and (b) of this section;
    - (B) the Department of Labor and Workforce Development is not conducting an investigation under this title; and
    - (C) the Department of Labor and Workforce Development has not issued a notice of a violation of this chapter to the primary contractor or any other contractors working on the public construction contract; and

- (2) shall withhold from the final payment an amount sufficient to pay the department's estimate of what may be needed to compensate the employees of any contractors under investigation on this construction contract, and any unpaid filing fees.
- (d) The notice and filing fee required under (a) of this section may be filed after work has begun if
  - (1) The public construction contract is for work undertaken in immediate response to an emergency; and
  - (2) The notice and fees are filed not later than 14 days after the work has begun.
- (e) A false statement made on a notice required by this section is punishable under AS 11.56.210.

**Sec. 36.05.060. Penalty for violation of this chapter.**

A contractor who violates this chapter is guilty of a misdemeanor and upon conviction is punishable by a fine of not less than \$100 nor more than \$1,000, or by imprisonment for not less than 10 days nor more than 90 days, or by both. Each day a violation exists constitutes a separate offense.

**Sec. 36.05.070. Wage rates in specifications and contracts for public works.**

- (a) The advertised specifications for a public construction contract that requires or involves the employment of mechanics, laborers, or field surveyors must contain a provision stating the minimum wages to be paid various classes of laborers, mechanics, or field surveyors and that the rate of wages shall be adjusted to the wage rate under AS 36.05.010.
- (b) Repealed by §17 ch 142 SLA 1972.
- (c) A public construction contract under (a) of this section must contain provisions that
  - (1) the contractor or subcontractors of the contractor shall pay all employees unconditionally and not less than once a week;
  - (2) wages may not be less than those stated in the advertised specifications, regardless of the contractual relationship between the contractor or subcontractors and laborers, mechanics, or field surveyors;
  - (3) the scale of wages to be paid shall be posted by the contractor in a prominent and easily accessible place at the site of the work;
  - (4) the state or a political subdivision shall withhold so much of the accrued payments as is necessary to pay to laborers, mechanics, or field surveyors employed by the contractor or subcontractors the difference between
    - (A) the rates of wages required by the contract to be paid laborers, mechanics, or field surveyors on the work; and
    - (B) the rates of wages in fact received by laborers, mechanics, or field surveyors.

**Sec. 36.05.080. Failure to pay agreed wages.**

Every contract within the scope of AS 36.05.070 shall contain a provision that if it is found that a laborer, mechanic, or field surveyor employed by the contractor or subcontractor has been or is being paid a rate of wages less than the rate of wages required by the contract to be paid, the state or its political subdivision may, by written notice to the contractor, terminate the contractor's right to proceed with the work or the part of the work for which there is a failure to pay the required wages and to prosecute the work to completion by contract or otherwise, and the contractor and the contractor's sureties are liable to the state or its political subdivision for excess costs for completing the work.

**Sec. 36.05.090. Payment of wages from withheld payments and listing contractors who violate contracts.**

- (a) The state disbursing officer in the case of a state public construction contract and the local fiscal officer in the case of a political subdivision public construction contract shall pay directly to laborers, mechanics, or field surveyors from accrued payments withheld under the terms of the contract the wages due laborers, mechanics, or field surveyors under AS 36.05.070.
- (b) The state disbursing officer or the local fiscal officer shall distribute to all departments of the state government and to all political subdivisions of the state a list giving the names of persons who have disregarded their obligations to employees. A person appearing on this list and a firm, corporation, partnership, or association in which the person has an interest may not work as a contractor or

subcontractor on a public construction contract for the state or a political subdivision of the state until three years after the date of publication of the list. If the accrued payments withheld under the contract are insufficient to reimburse all the laborers, mechanics, or field surveyors with respect to whom there has been a failure to pay the wages required under AS 36.05.070, the laborers, mechanics, or field surveyors have the right of action or intervention or both against the contractor and the contractor's sureties conferred by law upon persons furnishing labor or materials, and in the proceedings it is not a defense that the laborers, mechanics, or field surveyors accepted or agreed to accept less than the required rate of wages or voluntarily made refunds.

**Sec. 36.05.900. Definition.**

In this chapter, "contracting agency" means the state or a political subdivision of the state that has entered into a public construction contract with a contractor.

**EXCERPTS FROM ALASKA ADMINISTRATIVE CODE**

\*\*\***Notice:** Regulations relating to board and lodging and per diem went into effect on November 25, 2018. The new regulations are excerpted here\*\*\*

**8 AAC 30.051. Purpose.** The purpose of 8 AAC 30.052 – 8 AAC 30.056 is to ensure that wages paid to laborers, mechanics, and field surveyors do not fall below the prevailing rate of pay.

**8 AAC 30.052. Board and lodging; remote sites.** (a) A contractor on a public construction project located 65 or more road miles from the international airport closest to the project area in either Fairbanks, Juneau, or Anchorage, or that is inaccessible by road in a two-wheel drive vehicle, shall provide adequate board and lodging to each laborer, mechanic, or field surveyor while the person is employed on the project. If commercial lodging facilities are not available, the contractor shall provide temporary lodging facilities. Lodging facilities must comply with all applicable state and federal laws. For a highway project, the location of the project is measured from the midpoint of the project.

(b) A contractor is not required to provide board and lodging:

(1) to a laborer, mechanic, or field surveyor who is a domiciled resident of the project area; or

(2) on a laborer, mechanic, or field surveyor's scheduled days off, when the person can reasonably travel between the project and the person's permanent residence; for the purposes of this paragraph, "scheduled day off" means a day in which a person does not perform work on-site, is not required to remain at or near the job location for the benefit of the contractor, and is informed of the day off at least seven days before the day off.

(c) Upon a contractor's written request, the commissioner may waive the requirements of (a) of this section where:

(1) the project is inaccessible by road in a two-wheel drive vehicle, but the laborer, mechanic, or field surveyor can reasonably travel between the project and the person's permanent residence within one hour; or

(2) a laborer, mechanic, or field surveyor is not a domiciled resident of the project area, but has established permanent residence, with the intent to remain indefinitely, within 65 road miles of the project, or for a highway project, the mid-point of the project.

**8 AAC 30.054. Per diem instead of board and lodging.** (a) A contractor may pay a laborer, mechanic, or field surveyor per diem instead of providing board and lodging, when the following conditions are met:

(1) the department determines that per diem instead of board and lodging is an established practice for the work classification; the department shall publish and periodically revise its determinations in the pamphlet *Laborers' and Mechanics' Minimum Rates of Pay*;

(2) the contractor pays each laborer, mechanic, or field surveyor the appropriate per diem rate as published and periodically revised in the pamphlet *Laborers' and Mechanics' Minimum Rates of Pay*; and

(3) the contractor pays the per diem to each laborer, mechanic, or field surveyor on the same day that wages are paid.

(b) A contractor may not pay per diem instead of board and lodging on a highway project located

- (1) west of Livengood on the Elliot Highway, AK-2;
- (2) on the Dalton Highway, AK-11;
- (3) north of milepost 20 on the Taylor Highway, AK-5;
- (4) east of Chicken on the Top of the World Highway; or
- (5) south of Tetlin Junction to the Alaska-Canada border on the Alaska Highway, AK-2.

**8 AAC 30.056. Alternative arrangement.** Upon a contractor’s written request, the commissioner may approve an alternative board and lodging or per diem arrangement, provided

- (1) the arrangement does not reduce the laborer, mechanic, or field surveyor’s wages below the prevailing wage rate; and
- (2) the laborer, mechanic, or field surveyor voluntarily enters into and signs the written arrangement; a labor organization representing laborers, mechanics, or field surveyors may enter into the written agreement on their behalf.

**8 AAC 30.900. General definitions** (selected excerpts only):

In this chapter and in AS 36

(22) “domiciled resident” means a person living within 65 road miles of a public construction project, or in the case of a highway project, the mid-point of the project, for at least 12 consecutive months prior to the award of the public construction project;

(23) “employed on the project” means the time period from the date the laborer, mechanic, or field surveyor first reports on-site to the project through the final date the person reports on-site to the project.

## **ADDITIONAL INFORMATION**

### **PER DIEM**

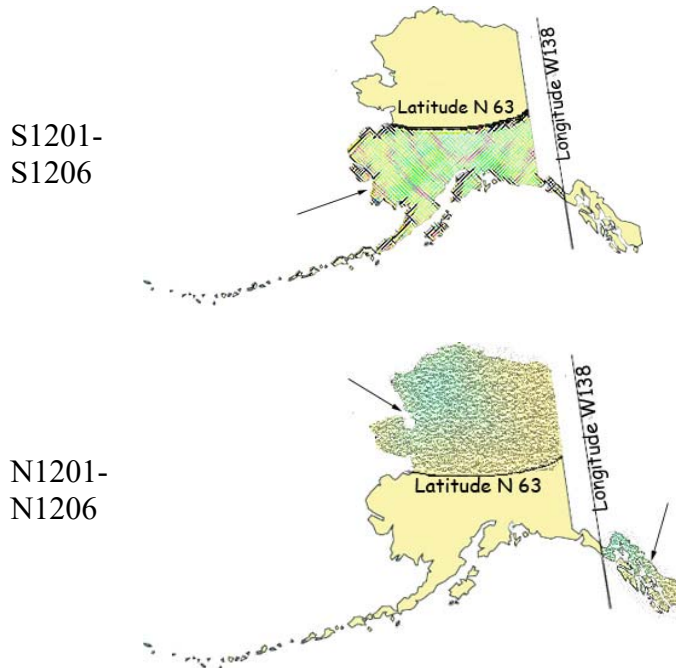
**Notice:** New regulations relating to board and lodging and per diem went into effect on November 25, 2018. The regulations provide a comprehensive set of requirements for the provision of board and lodging or per diem for workers on remote projects. Please refer to Alaska Administrative Code 8 AAC Chapter 30 and read the chapter carefully.

The Alaska Department of Labor and Workforce Development has determined that per diem is an established work practice for certain work classifications. These classifications are indicated throughout the Pamphlet by an asterisk (\*) under the classification title. If all of the conditions of 8 AAC 30.054 are met, an employer may pay workers in these classifications per diem instead of providing board and lodging on a remote project.

**Per Diem Rate:** As of May 1<sup>st</sup>, 2019, the minimum per diem rate is \$100.00 per day, or part thereof, the worker is employed on the project. In the event that a contractor provides lodging facilities, but no meals, the department will accept a payment of \$48 per day for meals to meet the per diem requirements.

### LABORER CLASSIFICATION CLARIFICATION

The laborer rates categorized in class code S1201-S1206 apply in one area of Alaska; the area that is south of N63 latitude and west of W138 Longitude. The laborer rates categorized in class code N1201-N1206 apply in two areas of Alaska; the Alaska areas north of N63 latitude and east of W138 longitude. The following graphic representations should assist with clarifying the applicable wage rate categories:



### APPRENTICE RATES

Apprentice rates at less than the minimum prevailing rates may be paid to apprentices according to an apprentice program which has been registered and approved by the Commissioner of the Alaska Department of Labor and Workforce Development in writing or according to a bona fide apprenticeship program registered with the U.S. Department of Labor, Office of Apprenticeship Training. **Any employee listed on a payroll at an apprentice wage rate who is not registered as above shall be paid the journeyman prevailing minimum wage in that work classification.** Wage rates are based on prevailing crew makeup practices in Alaska and apply to work performed regardless of either the quality of the work performed by the employee or the titles or classifications which may be assigned to individual employees.

### FRINGE BENEFIT PLANS

Contractors/subcontractors may compensate fringe benefits to their employees in any one of three methods. The fringe benefits may be paid into a union trust fund, into an approved benefit plan, or paid directly on the paycheck as gross wages.

Where fringe benefits are paid into approved plans, funds, or programs including union trust funds, the payments must be contributed at least monthly. If contractors submit their own payroll forms and are paying fringe benefits into approved plans, funds, or programs, the employer's certification must include, in addition to those requirements of 8 AAC 30.020(c), a statement that fringe benefit payments have been or will be paid at least monthly. Contractors who pay fringe benefits to a plan must ensure the plan is one approved by the Internal Revenue Service and that the plan meets the requirements of 8 AAC 30.025 (eff. 3/2/08) in order for payments to be credited toward the prevailing wage obligation.

**SPECIAL PREVAILING WAGE RATE DETERMINATION**

Special prevailing wage rate determinations may be requested for special projects or a special worker classification if the work to be performed does not conform to traditional public construction for which a prevailing wage rate has been established under 8 AAC 30.050(a) of this section. Requests for special wage rate determinations must be in writing and filed with the Commissioner at least 30 days before the award of the contract. An applicant for a special wage rate determination shall have the responsibility to support the necessity for the special rate. An application for a special wage rate determination filed under this section must contain:

- (1) a specification of the contract or project on which the special rates will apply and a description of the work to be performed;
- (2) a brief narrative explaining why special wage rates are necessary;
- (3) the job class or classes involved;
- (4) the special wage rates the applicant is requesting, including survey or other relevant wage data to support the requested rates;
- (5) the approximate number of employees who would be affected; and
- (6) any other information which might be helpful in determining if special wage rates are appropriate.

Requests made pursuant to the above should be addressed to:

Director  
Alaska Department of Labor and Workforce Development  
Labor Standards and Safety Division  
Wage and Hour Administration  
P.O. Box 111149  
Juneau, AK 99811-1149

-or-

Email: [statewide.wagehour@alaska.gov](mailto:statewide.wagehour@alaska.gov)

**EMPLOYMENT PREFERENCE INFORMATION**

In October 2019, the Alaska Attorney General issued a formal opinion stating that the Alaska Statutes 36.10.150 of the State’s 90% Employment Preference law, also known as the Alaska Resident Hire law, violates both the U.S. and Alaska Constitutions. As a result, the state has stopped all enforcement activity.

A copy of the Attorney General opinion is found here:

[http://law.alaska.gov/pdf/opinions/opinions\\_2019/19-005\\_AK-hire.pdf](http://law.alaska.gov/pdf/opinions/opinions_2019/19-005_AK-hire.pdf)



**Alaska Department of Labor and Workforce Development  
Labor Standards and Safety Division  
Wage and Hour Administration  
Web site: <http://labor.state.ak.us/lss/pamp600.htm>**

**Anchorage**

1251 Muldoon Road, Suite 113  
Anchorage, Alaska 99504-2098  
Phone: (907) 269-4900

Email:  
statewide.wagehour@alaska.gov

**Juneau**

PO Box 111149  
Juneau, Alaska 99811  
Phone: (907) 465-4842

Email:  
statewide.wagehour@alaska.gov

**Fairbanks**

Regional State Office Building  
675 7<sup>th</sup> Ave., Station J-1  
Fairbanks, Alaska 99701-4593  
Phone: (907) 451-2886

Email:  
statewide.wagehour@alaska.gov

**LABOR STANDARDS AND SAFETY NOTICE REQUESTS**

If you would like to receive Wage and Hour Administration or Mechanical Inspection **regulation notices** or **publications information**, they are available via electronic mail, by signing up in the GovDelivery System, <https://public.govdelivery.com/accounts/AKDOL/subscriber/new> and selecting topics *LSS – Wage and Hour – Forms and Publications*, *LSS – Mechanical Inspection Regulations*, or *LSS – Wage and Hour Regulations*.

*Publications* are also available online at <http://labor.alaska.gov/lss/home.htm>

**DEBARMENT LIST**

**AS 36.05.090(b)** states that “the state disbursing officer or the local fiscal officer shall distribute to all departments of the state government and to all political subdivisions of the state a list giving the names of persons who have disregarded their obligations to employees.”

A person appearing on the following debarment list and a firm, corporation, partnership, or association in which the person has an interest may not work as a contractor or subcontractor on a public construction contract for the state or a political subdivision of the state for three years from the date of debarment.

Company Name

Debarment Expires

Tim Banach, Individual  
Boulder Creek Electric

February 23, 2021  
February 23, 2021

# Laborers' & Mechanics' Minimum Rates of Pay

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
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## Boilermakers

\*See per diem note on last page

<b>A0101</b>	Boilermaker (journeyman)	46.08	8.57	16.72	1.65	VAC 3.50	SAF 0.34	76.86
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## Bricklayers & Blocklayers

\*See per diem note on last page

<b>A0201</b>	Blocklayer	42.13	9.83	8.50	0.55	L&M 0.15	0.87	62.03
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Bricklayer  
 Marble or Stone Mason  
 Refractory Worker (Firebrick, Plastic, Castable, and Gunitite Refractory Applications)  
 Terrazzo Worker  
 Tile Setter

<b>A0202</b>	Tuck Pointer Caulker	42.13	9.83	8.50	0.55	L&M 0.15	0.87	62.03
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Cleaner (PCC)

<b>A0203</b>	Marble & Tile Finisher	35.96	9.83	8.50	0.55	L&M 0.15	0.87	55.86
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Terrazzo Finisher

<b>A0204</b>	Torginal Applicator	40.10	9.83	8.50	0.55	L&M 0.15	0.87	60.00
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## Carpenters, Region I (North of 63 latitude)

\*See per diem note on last page

<b>N0301</b>	Carpenter (journeyman)	38.34	10.08	15.23	1.10	L&M 0.10	SAF 0.10	64.95
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Lather/Drywall/Acoustical

## Carpenters, Region II (South of N63 latitude)

\*See per diem note on last page

<b>S0301</b>	Carpenter (journeyman)	38.34	10.08	15.77	1.10	L&M 0.10	SAF 0.10	65.49
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Lather/Drywall/Acoustical

## Cement Masons

\*See per diem note on last page

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Cement Masons**

\*See per diem note on last page

<b>A0401</b>	Group I, including:	38.38	8.70	11.80	1.43		<b>L&amp;M</b> 0.10	60.41
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- Application of Sealing Compound
- Application of Underlayment
- Building, General
- Cement Mason (journeyman)
- Concrete
- Concrete Paving
- Curb & Gutter, Sidewalk
- Curing of All Concrete
- Grouting & Caulking of Tilt-Up Panels
- Grouting of All Plates
- Patching Concrete
- Screed Pin Setter
- Spackling/Skim Coating

<b>A0402</b>	Group II, including:	38.38	8.70	11.80	1.43		<b>L&amp;M</b> 0.10	60.41
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- Form Setter

<b>A0403</b>	Group III, including:	38.38	8.70	11.80	1.43		<b>L&amp;M</b> 0.10	60.41
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- Concrete Saw (self-powered)
- Curb & Gutter Machine
- Floor Grinder
- Pneumatic Power Tools
- Power Chipping & Bushing
- Sand Blasting Architectural Finish
- Screed & Rodding Machine Operator
- Troweling Machine Operator

<b>A0404</b>	Group IV, including:	38.38	8.70	11.80	1.43		<b>L&amp;M</b> 0.10	60.41
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- Application of All Composition Mastic
- Application of All Epoxy Material
- Application of All Plastic Material
- Finish Colored Concrete
- Gunite Nozzleman
- Hand Powered Grinder
- Tunnel Worker

<b>A0405</b>	Group V, including:	38.38	8.70	11.80	1.43		<b>L&amp;M</b> 0.10	60.41
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- Plasterer

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
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**Culinary Workers**

<b>A0501</b>	Baker/Cook	28.37	7.31	7.56			<b>LEG</b>	43.24
<b>A0503</b>	General Helper	25.05	7.31	7.56			<b>LEG</b>	39.92
	Housekeeper							
	Janitor							
	Kitchen Helper							
<b>A0504</b>	Head Cook	28.97	7.31	7.56			<b>LEG</b>	43.84
<b>A0505</b>	Head Housekeeper	25.45	7.31	7.56			<b>LEG</b>	40.32
	Head Kitchen Help							

**Dredgemen**  
\*See per diem note on last page

<b>A0601</b>	Assistant Engineer	40.76	10.35	13.00	1.00	0.10	0.05	<b>L&amp;M</b> 65.26
	Craneman							
	Electrical Generator Operator (primary pump/power barge/dredge)							
	Engineer							
	Welder							
<b>A0602</b>	Assistant Mate (deckhand)	39.60	10.35	13.00	1.00	0.10	0.05	<b>L&amp;M</b> 64.10
<b>A0603</b>	Fireman	40.04	10.35	13.00	1.00	0.10	0.05	<b>L&amp;M</b> 64.54
<b>A0605</b>	Leverman Clamshell	43.29	10.35	13.00	1.00	0.10	0.05	<b>L&amp;M</b> 67.79
<b>A0606</b>	Leverman Hydraulic	41.53	10.35	13.00	1.00	0.10	0.05	<b>L&amp;M</b> 66.03
<b>A0607</b>	Mate & Boatman	40.76	10.35	13.00	1.00	0.10	0.05	<b>L&amp;M</b> 65.26
<b>A0608</b>	Oiler (dredge)	40.04	10.35	13.00	1.00	0.10	0.05	<b>L&amp;M</b> 64.54

**Electricians**  
\*See per diem note on last page

<b>A0701</b>	Inside Cable Splicer	41.27	13.90	13.88	0.95	0.20	0.15	<b>L&amp;M</b> <b>LEG</b> 70.35
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Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR	
<b>Electricians</b>									
*See per diem note on last page									
<b>A0702</b>	Inside Journeyman Wireman, including: Technicians (including use of drones in electrical construction)	40.94	13.90	14.12	0.95		<b>L&amp;M</b> 0.20	<b>LEG</b> 0.15	70.26
<b>A0703</b>	Power Cable Splicer	57.79	13.90	18.92	0.95		<b>L&amp;M</b> 0.20	<b>LEG</b> 0.15	91.91
<b>A0704</b>	Tele Com Cable Splicer	50.53	13.90	16.17	0.95		<b>L&amp;M</b> 0.20	<b>LEG</b> 0.15	81.90
<b>A0705</b>	Power Journeyman Lineman, including: Power Equipment Operator Technician (including use of drones in electrical construction)	56.04	13.90	18.87	0.95		<b>L&amp;M</b> 0.20	<b>LEG</b> 0.15	90.11
<b>A0706</b>	Tele Com Journeyman Lineman, including: Technician (including use of drones in telecommunications construction) Tele Com Equipment Operator	48.78	13.90	16.11	0.95		<b>L&amp;M</b> 0.20	<b>LEG</b> 0.15	80.09
<b>A0707</b>	Straight Line Installer - Repairman	48.78	13.90	16.11	0.95		<b>L&amp;M</b> 0.20	<b>LEG</b> 0.15	80.09
<b>A0708</b>	Powderman	54.04	13.90	18.81	0.95		<b>L&amp;M</b> 0.20	<b>LEG</b> 0.15	88.05
<b>A0710</b>	Material Handler	26.57	13.33	4.80	0.15		<b>L&amp;M</b> 0.15	<b>LEG</b> 0.15	45.15
<b>A0712</b>	Tree Trimmer Groundman	28.37	13.90	12.59	0.15		<b>L&amp;M</b> 0.15	<b>LEG</b> 0.15	55.31
<b>A0713</b>	Journeyman Tree Trimmer	37.30	13.90	12.86	0.15		<b>L&amp;M</b> 0.15	<b>LEG</b> 0.15	64.51
<b>A0714</b>	Vegetation Control Sprayer	40.85	13.90	12.97	0.15		<b>L&amp;M</b> 0.15	<b>LEG</b> 0.15	68.17
<b>A0715</b>	Inside Journeyman Communications CO/PBX	39.52	13.90	13.83	0.95		<b>L&amp;M</b> 0.20	<b>LEG</b> 0.15	68.55

**Elevator Workers**  
\*See per diem note on last page

<b>A0802</b>	Elevator Constructor	41.38	15.73	18.41	0.63		<b>L&amp;M</b> 0.48	<b>VAC</b> 4.59	81.22
<b>A0803</b>	Elevator Constructor Mechanic	59.11	15.73	18.41	0.63		<b>L&amp;M</b> 0.48	<b>VAC</b> 6.56	100.92

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
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**Heat & Frost Insulators/Asbestos Workers**

\*See per diem note on last page

<b>A0902</b>	Asbestos Abatement-Mechanical Systems	38.68	9.24	11.01	1.20		<b>SAF</b> 0.12	60.25
<b>A0903</b>	Asbestos Abatement/General Demolition All Systems	38.68	9.24	11.01	1.20		<b>SAF</b> 0.12	60.25
<b>A0904</b>	Insulator, Group II	38.68	9.24	11.01	1.20		<b>SAF</b> 0.12	60.25
<b>A0905</b>	Fire Stop	38.68	9.24	11.01	1.20		<b>SAF</b> 0.12	60.25

**IronWorkers**

\*See per diem note on last page

<b>A1101</b>	Ironworkers, including:	38.75	9.03	22.88	0.72		<b>L&amp;M</b> 0.20	<b>IAF</b> 0.36	71.94
	Bender Operators								
	Bridge & Structural								
	Hangar Doors								
	Hollow Metal Doors								
	Industrial Doors								
	Machinery Mover								
	Ornamental								
	Reinforcing								
	Rigger								
	Sheeter								
	Signalman								
	Stage Rigger								
	Toxic Haz-Mat Work								
	Welder								
<b>A1102</b>	Helicopter	39.75	9.03	22.88	0.72		<b>L&amp;M</b> 0.20	<b>IAF</b> 0.36	72.94
	Tower (energy producing windmill type towers to include nacelle and blades)								
<b>A1103</b>	Fence/Barrier Installer	35.25	9.03	22.53	0.72		<b>L&amp;M</b> 0.20	<b>IAF</b> 0.36	68.09
<b>A1104</b>	Guard Rail Layout Man	35.99	9.03	22.53	0.72		<b>L&amp;M</b> 0.20	<b>IAF</b> 0.36	68.83
<b>A1105</b>	Guard Rail Installer	36.25	9.03	22.53	0.72		<b>L&amp;M</b> 0.20	<b>IAF</b> 0.36	69.09

**Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)**

\*See per diem note on last page

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)**  
 \*See per diem note on last page

						<b>L&amp;M</b>	<b>LEG</b>	
<b>N1201</b>	Group I, including:	31.71	8.95	17.81	1.30	0.20	0.20	60.17
	Asphalt Worker (shovelman, plant crew)							
	Brush Cutter							
	Camp Maintenance Laborer							
	Carpenter Tender or Helper							
	Choke Setter, Hook Tender, Rigger, Signalman							
	Concrete Labor (curb & gutter, chute handler, curing, grouting, screeding)							
	Crusher Plant Laborer							
	Demolition Laborer							
	Ditch Digger							
	Dumpman							
	Environmental Laborer (hazard/toxic waste, oil spill)							
	Fence Installer							
	Fire Watch Laborer							
	Flagman							
	Form Stripper							
	General Laborer							
	Guardrail Laborer, Bridge Rail Installer							
	Hydro-seeder Nozzleman							
	Laborer, Building							
	Landscaper or Planter							
	Laying of Mortarless Decorative Block (retaining walls, flowered decorative block 4 feet or less - highway or landscape work)							
	Material Handler							
	Pneumatic or Power Tools							
	Portable or Chemical Toilet Serviceman							
	Pump Man or Mixer Man							
	Railroad Track Laborer							
	Sandblast, Pot Tender							
	Saw Tender							
	Slurry Work							
	Steam Cleaner Operator							
	Steam Point or Water Jet Operator							
	Storm Water Pollution Protection Plan Worker (SWPPP Worker - erosion and sediment control Laborer)							
	Tank Cleaning							
	Utiliwalk & Utilidor Laborer							
	Watchman (construction projects)							
	Window Cleaner							

						<b>L&amp;M</b>	<b>LEG</b>	
<b>N1202</b>	Group II, including:	32.71	8.95	17.81	1.30	0.20	0.20	61.17

Burning & Cutting Torch

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)**

\*See per diem note on last page

						L&M	LEG	
<b>N1202</b>	Group II, including:	32.71	8.95	17.81	1.30	0.20	0.20	61.17
	Cement or Lime Dumper or Handler (sack or bulk)							
	Certified Erosion Sediment Control Lead (CESCL Laborer)							
	Choker Splicer							
	Chucktender (wagon, air-track & hydraulic drills)							
	Concrete Laborer (power buggy, concrete saws, pumpcrete nozzleman, vibratorman)							
	Culvert Pipe Laborer							
	Cured Inplace Pipelayer							
	Environmental Laborer (asbestos, marine work)							
	Floor Preparation, Core Drilling							
	Foam Gun or Foam Machine Operator							
	Green Cutter (dam work)							
	Gunite Operator							
	Hod Carrier							
	Jackhammer/Chipping Gun or Pavement Breaker							
	Laser Instrument Operator							
	Laying of Mortarless Decorative Block (retaining walls, flowered decorative block over 4 feet - highway or landscape work)							
	Mason Tender & Mud Mixer (sewer work)							
	Pilot Car							
	Pipelayer Helper							
	Plasterer, Bricklayer & Cement Finisher Tender							
	Powderman Helper							
	Power Saw Operator							
	Railroad Switch Layout Laborer							
	Sandblaster							
	Scaffold Building & Erecting							
	Sewer Caulker							
	Sewer Plant Maintenance Man							
	Thermal Plastic Applicator							
	Timber Faller, Chainsaw Operator, Filer							
	Timberman							

						L&M	LEG	
<b>N1203</b>	Group III, including:	33.61	8.95	17.81	1.30	0.20	0.20	62.07

- Bit Grinder
- Camera/Tool/Video Operator
- Guardrail Machine Operator
- High Rigger & Tree Topper
- High Scaler
- Multiplate
- Plastic Welding

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation



Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
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**Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)**

\*See per diem note on last page

<b>N1203</b>	Group III, including:	33.61	8.95	17.81	1.30	<b>L&amp;M</b>	<b>LEG</b>	62.07
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- Slurry Seal Squeegee Man
- Traffic Control Supervisor
- Welding Certified (in connection with laborer's work)

<b>N1204</b>	Group IIIA	36.89	8.95	17.81	1.30	<b>L&amp;M</b>	<b>LEG</b>	65.35
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- Asphalt Raker, Asphalt Belly Dump Lay Down
- Drill Doctor (in the field)
- Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)
- Pioneer Drilling & Drilling Off Tugger (all type drills)
- Pipelayers
- Powderman (Employee Possessor)
- Storm Water Pollution Protection Plan Specialist (SWPPP Specialist)
- Traffic Control Supervisor, DOT Qualified

<b>N1205</b>	Group IV	21.28	8.95	17.81	1.30	<b>L&amp;M</b>	<b>LEG</b>	49.74
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- Final Building Cleanup
- Permanent Yard Worker

<b>N1206</b>	Group IIIB	40.68	6.24	17.81	1.30	<b>L&amp;M</b>	<b>LEG</b>	66.43
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- Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)(over 5,000 hours)
- Federal Powderman (Responsible Person in Charge)
- Grade Checking (setting or transferring of grade marks, line and grade, GPS, drones)
- Pioneer Drilling & Drilling Off Tugger (all type drills)(over 5,000 hours)
- Stake Hopper

**Laborers (The area that is south of N63 latitude and west of W138 longitude)**

\*See per diem note on last page

<b>S1201</b>	Group I, including:	31.71	8.95	17.81	1.30	<b>L&amp;M</b>	<b>LEG</b>	60.17
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- Asphalt Worker (shovelman, plant crew)
- Brush Cutter
- Camp Maintenance Laborer
- Carpenter Tender or Helper
- Choke Setter, Hook Tender, Rigger, Signalman
- Concrete Labor (curb & gutter, chute handler, curing, grouting, screeding)
- Crusher Plant Laborer
- Demolition Laborer

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Laborers (The area that is south of N63 latitude and west of W138 longitude)**

\*See per diem note on last page

						<b>L&amp;M</b>	<b>LEG</b>	
<b>S1201</b>	Group I, including:	31.71	8.95	17.81	1.30	0.20	0.20	60.17
	Ditch Digger							
	Dumpman							
	Environmental Laborer (hazard/toxic waste, oil spill)							
	Fence Installer							
	Fire Watch Laborer							
	Flagman							
	Form Stripper							
	General Laborer							
	Guardrail Laborer, Bridge Rail Installer							
	Hydro-seeder Nozzleman							
	Laborer, Building							
	Landscaper or Planter							
	Laying of Mortarless Decorative Block (retaining walls, flowered decorative block 4 feet or less - highway or landscape work)							
	Material Handler							
	Pneumatic or Power Tools							
	Portable or Chemical Toilet Serviceman							
	Pump Man or Mixer Man							
	Railroad Track Laborer							
	Sandblast, Pot Tender							
	Saw Tender							
	Slurry Work							
	Steam Cleaner Operator							
	Steam Point or Water Jet Operator							
	Storm Water Pollution Protection Plan Worker (SWPPP Worker - erosion and sediment control Laborer)							
	Tank Cleaning							
	Utiliwalk & Utilidor Laborer							
	Watchman (construction projects)							
	Window Cleaner							

						<b>L&amp;M</b>	<b>LEG</b>	
<b>S1202</b>	Group II, including:	32.71	8.95	17.81	1.30	0.20	0.20	61.17
	Burning & Cutting Torch							
	Cement or Lime Dumper or Handler (sack or bulk)							
	Certified Erosion Sediment Control Lead (CESCL Laborer)							
	Choker Splicer							
	Chucktender (wagon, air-track & hydraulic drills)							
	Concrete Laborer (power buggy, concrete saws, pumpcrete nozzleman, vibratorman)							
	Culvert Pipe Laborer							
	Cured Inplace Pipelayer							

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Laborers (The area that is south of N63 latitude and west of W138 longitude)**

\*See per diem note on last page

						<b>L&amp;M</b>	<b>LEG</b>	
<b>S1202</b>	Group II, including:	32.71	8.95	17.81	1.30	0.20	0.20	61.17

- Environmental Laborer (asbestos, marine work)
- Floor Preparation, Core Drilling
- Foam Gun or Foam Machine Operator
- Green Cutter (dam work)
- Gunite Operator
- Hod Carrier
- Jackhammer/Chipping Gun or Pavement Breaker
- Laser Instrument Operator
- Laying of Mortarless Decorative Block (retaining walls, flowered decorative block over 4 feet - highway or landscape work)
- Mason Tender & Mud Mixer (sewer work)
- Pilot Car
- Pipelayer Helper
- Plasterer, Bricklayer & Cement Finisher Tender
- Powderman Helper
- Power Saw Operator
- Railroad Switch Layout Laborer
- Sandblaster
- Scaffold Building & Erecting
- Sewer Caulker
- Sewer Plant Maintenance Man
- Thermal Plastic Applicator
- Timber Faller, Chainsaw Operator, Filer
- Timberman

						<b>L&amp;M</b>	<b>LEG</b>	
<b>S1203</b>	Group III, including:	33.61	8.95	17.81	1.30	0.20	0.20	62.07

- Bit Grinder
- Camera/Tool/Video Operator
- Guardrail Machine Operator
- High Rigger & Tree Topper
- High Scaler
- Multiplate
- Plastic Welding
- Slurry Seal Squeegee Man
- Traffic Control Supervisor
- Welding Certified (in connection with laborer's work)

						<b>L&amp;M</b>	<b>LEG</b>	
<b>S1204</b>	Group IIIA	36.89	8.95	17.81	1.30	0.20	0.20	65.35

- Asphalt Raker, Asphalt Belly Dump Lay Down
- Drill Doctor (in the field)

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
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**Laborers (The area that is south of N63 latitude and west of W138 longitude)**

\*See per diem note on last page

<b>S1204</b>	Group IIIA	36.89	8.95	17.81	1.30	<b>L&amp;M</b>	<b>LEG</b>	65.35
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- Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)
- Pioneer Drilling & Drilling Off Tugger (all type drills)
- Pipelayers
- Powderman (Employee Possessor)
- Storm Water Pollution Protection Plan Specialist (SWPPP Specialist)
- Traffic Control Supervisor, DOT Qualified

<b>S1205</b>	Group IV	21.28	8.95	17.81	1.30	<b>L&amp;M</b>	<b>LEG</b>	49.74
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- Final Building Cleanup
- Permanent Yard Worker

<b>S1206</b>	Group IIIB	40.68	6.24	17.81	1.30	<b>L&amp;M</b>	<b>LEG</b>	66.43
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- Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)(over 5,000 hours)
- Federal Powderman (Responsible Person in Charge)
- Grade Checking (setting or transferring of grade marks, line and grade, GPS, drones)
- Pioneer Drilling & Drilling Off Tugger (all type drills)(over 5,000 hours)
- Stake Hopper

**Millwrights**

\*See per diem note on last page

<b>A1251</b>	Millwright (journeyman)	37.64	10.08	12.28	1.10	<b>L&amp;M</b>	0.05	61.55
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<b>A1252</b>	Millwright Welder	38.64	10.08	12.28	1.10	<b>L&amp;M</b>	0.05	62.55
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**Painters, Region I (North of N63 latitude)**

\*See per diem note on last page

<b>N1301</b>	Group I, including:	33.11	8.59	13.50	1.08	<b>L&amp;M</b>	0.07	56.35
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- Brush
- General Painter
- Hand Taping
- Hazardous Material Handler
- Lead-Based Paint Abatement
- Roll

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Painters, Region I (North of N63 latitude)**

\*See per diem note on last page

						L&M	
<b>N1302</b>	Group II, including:	33.63	8.59	13.50	1.08	0.07	56.87
	Bridge Painter						
	Epoxy Applicator						
	General Drywall Finisher						
	Hand/Spray Texturing						
	Industrial Coatings Specialist						
	Machine/Automatic Taping						
	Pot Tender						
	Sandblasting						
	Specialty Painter						
	Spray						
	Structural Steel Painter						
	Wallpaper/Vinyl Hanger						

<b>N1304</b>	Group IV, including:	39.76	8.59	16.37	1.05	0.05	65.82
	Glazier						
	Storefront/Automatic Door Mechanic						

<b>N1305</b>	Group V, including:	28.75	8.59	5.02	0.83	0.07	43.26
	Carpet Installer						
	Floor Coverer						
	Heat Weld/Cove Base						
	Linoleum/Soft Tile Installer						

**Painters, Region II (South of N63 latitude)**

\*See per diem note on last page

						L&M	
<b>S1301</b>	Group I, including :	30.45	8.59	14.15	1.08	0.07	54.34
	Brush						
	General Painter						
	Hand Taping						
	Hazardous Material Handler						
	Lead-Based Paint Abatement						
	Roll						
	Spray						

						L&M	
<b>S1302</b>	Group II, including :	31.70	8.59	14.15	1.08	0.07	55.59
	General Drywall Finisher						
	Hand/Spray Texturing						
	Machine/Automatic Taping						

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR	
<b>Painters, Region II (South of N63 latitude)</b>									
*See per diem note on last page									
<b>S1302</b>	Group II, including :	31.70	8.59	14.15	1.08		<b>L&amp;M</b> 0.07	55.59	
	Wallpaper/Vinyl Hanger								
<b>S1303</b>	Group III, including :	31.80	8.59	14.15	1.08		<b>L&amp;M</b> 0.07	55.69	
	Bridge Painter								
	Epoxy Applicator								
	Industrial Coatings Specialist								
	Pot Tender								
	Sandblasting								
	Specialty Painter								
	Structural Steel Painter								
<b>S1304</b>	Group IV, including:	39.97	8.59	15.41	1.08		<b>L&amp;M</b> 0.07	65.12	
	Glazier								
	Storefront/Automatic Door Mechanic								
<b>S1305</b>	Group V, including:	28.75	8.59	5.02	0.83		<b>L&amp;M</b> 0.07	43.26	
	Carpet Installer								
	Floor Coverer								
	Heat Weld/Cove Base								
	Linoleum/Soft Tile Installer								
<b>Piledrivers</b>									
*See per diem note on last page									
<b>A1401</b>	Piledriver	38.34	10.08	15.23	1.10		<b>L&amp;M</b> 0.10	<b>IAF</b> 0.10	64.95
	Assistant Dive Tender								
	Carpenter/Piledriver								
	Rigger								
	Sheet Stabber								
	Skiff Operator								
<b>A1402</b>	Piledriver-Welder/Toxic Worker	39.34	10.08	15.23	1.10		<b>L&amp;M</b> 0.10	<b>IAF</b> 0.10	65.95
<b>A1403</b>	Remotely Operated Vehicle Pilot/Technician	42.65	10.08	15.23	1.10		<b>L&amp;M</b> 0.10	<b>IAF</b> 0.10	69.26
	Single Atmosphere Suit, Bell or Submersible Pilot								
<b>A1404</b>	Diver (working) **See note on last page	82.45	10.08	15.23	1.10		<b>L&amp;M</b> 0.10	<b>IAF</b> 0.10	109.06

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
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**Piledrivers**  
\*See per diem note on last page

<b>A1405</b>	Diver (standby) **See note on last page	42.65	10.08	15.23	1.10	L&M	IAF	69.26
<b>A1406</b>	Dive Tender **See note on last page	41.65	10.08	15.23	1.10	L&M	IAF	68.26
<b>A1407</b>	Welder (American Welding Society, Certified Welding Inspector)	43.90	10.08	15.23	1.10	L&M	IAF	70.51

**Plumbers, Region I (North of N63 latitude)**  
\*See per diem note on last page

<b>N1501</b>	Journeyman Pipefitter	41.46	9.75	17.00	1.40	L&M	S&L	70.26
	Plumber							
	Welder							

**Plumbers, Region II (South of N63 latitude)**  
\*See per diem note on last page

<b>S1501</b>	Journeyman Pipefitter	40.00	10.73	15.02	1.45	L&M		67.40
	Plumber							
	Welder							

**Plumbers, Region IIA (1st Judicial District)**  
\*See per diem note on last page

<b>X1501</b>	Journeyman Pipefitter	38.82	13.37	11.75	2.50	L&M		66.68
	Plumber							
	Welder							

**Power Equipment Operators**  
\*See per diem note on last page

<b>A1601</b>	Group I, including:	41.53	10.35	13.00	1.00	L&M		66.03
	Asphalt Roller: Breakdown, Intermediate, and Finish							
	Back Filler							
	Barrier Machine (Zipper)							
	Beltcrete with Power Pack & similar conveyors							
	Bending Machine							
	Boat Coxswain							
	Bulldozer							
	Cableways, Highlines & Cablecars							

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Power Equipment Operators**

\*See per diem note on last page

							<b>L&amp;M</b>						
<b>A1601</b>	Group I, including:						41.53	10.35	13.00	1.00	0.10	0.05	66.03
	Cleaning Machine												
	Coating Machine												
	Concrete Hydro Blaster												
	Cranes (45 tons & under or 150 feet of boom & under (including jib & attachments))												
	(a) Hydralifts or Transporters, (all track or truck type)												
	(b) Derricks												
	(c) Overhead												
	Crushers												
	Deck Winches, Double Drum												
	Ditching or Trenching Machine (16 inch or over)												
	Drag Scraper, Yarder, and similar types												
	Drilling Machines, Core, Cable, Rotary and Exploration												
	Finishing Machine Operator, Concrete Paving, Laser Screed, Sidewalk, Curb & Gutter Machine												
	Grade Checker and/or Line and Grade including Drone												
	Helicopters												
	Hover Craft, Flex Craft, Loadmaster, Air Cushion, All-Terrain Vehicle, Rollagon, Bargecable, Nodwell, & Snow Cat												
	Hydro Ax, Feller Buncher & similar												
	Hydro Excavation (Vac-Truck and Similar)												
	Loaders (2 1/2 yards through 5 yards, including all attachments):												
	(a) Forklifts (with telescopic boom & swing attachment)												
	(b) Front End & Overhead, (2-1/2 yards through 5 yards)												
	(c) Loaders, (with forks or pipe clamp)												
	(d) Loaders, (elevating belt type, Euclid & similar types)												
	Material Transfer Vehicle (Elevating Grader, Pickup Machine, and similar types)												
	Mechanic, Welder, Bodyman, Electrical, Camp & Maintenance Engineer												
	Micro Tunneling Machine												
	Mixers: Mobile type with hoist combination												
	Motor Patrol Grader												
	Mucking Machine: Mole, Tunnel Drill, Horizontal/Directional Drill Operator and/or Shield												
	Off-Road Hauler (including Articulating and Haul Trucks)												
	Operator on Dredges												
	Piledriver Engineer, L.B. Foster, Puller or similar paving breaker												
	Plant Operator (Asphalt & Concrete)												
	Power Plant, Turbine Operator 200 k.w & over (power plants or combination of power units over 300 k.w.)												
	Remote Controlled Equipment												
	Scraper (through 40 yards)												

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation



**Power Equipment Operators**

\*See per diem note on last page

<b>A1601</b>	Group I, including:	41.53	10.35	13.00	1.00	0.10	0.05	66.03
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- Service Oiler/Service Engineer
- Shot Blast Machine
- Shovels, Backhoes, Excavators with all attachments, and Gradealls (3 yards & under)
- Sideboom (under 45 tons)
- Sub Grader (Gurries & similar types)
- Tack Tractor
- Truck Mounted Concrete Pump, Conveyor/Tele-belt, & Creter
- Wate Kote Machine

<b>A1602</b>	Group IA, including:	43.29	10.35	13.00	1.00	0.10	0.05	67.79
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- Camera/Tool/Video Operator (Slipline)
- Certified Welder, Electrical Mechanic, Camp Maintenance Engineer, Mechanic (over 10,000 hours)
- Cranes (over 45 tons or 150 feet including jib & attachments)
  - (a) Clamshells & Draglines (over 3 yards)
  - (b) Tower Cranes
- Licensed Water/Waste Water Treatment Operator
- Loaders (over 5 yards)
- Motor Patrol Grader, Dozer, Grade Tractor (finish: when finishing to final grade and/or to hubs, or for asphalt)
- Power Plants (1000 k.w. & over)
- Profiler, Reclaimer, and Roto-Mill
- Quad
- Scrapers (over 40 yards)
- Screed
- Shovels, Backhoes, Excavators with all attachments (over 3 yards)
- Sidebooms (over 45 tons)
- Slip Form Paver, C.M.I. & similar types
- Topside (Asphalt Paver, Slurry machine, Spreaders, and similar types)

<b>A1603</b>	Group II, including:	40.76	10.35	13.00	1.00	0.10	0.05	65.26
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- Boiler - Fireman
- Cement Hogs & Concrete Pump Operator
- Conveyors (except those listed in Group I)
- Hoists on Steel Erection, Towermobiles & Air Tuggers
- Horizontal/Directional Drill Locator
- Locomotives, Rod & Geared Engines
- Mixers
- Screening, Washing Plant
- Sideboom (cradling rock drill, regardless of size)

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Power Equipment Operators**

\*See per diem note on last page

<b>A1603</b> Group II, including:							<b>L&amp;M</b>	
	40.76	10.35	13.00	1.00	0.10	0.05		65.26

- Skidder
- Trenching Machines (under 16 inches)
- Water/Waste Water Treatment Operator

<b>A1604</b> Group III, including:							<b>L&amp;M</b>	
	40.04	10.35	13.00	1.00	0.10	0.05		64.54

- "A" Frame Trucks, Deck Winches
- Bombardier (tack or tow rig)
- Boring Machine
- Brooms, Power (sweeper, elevator, vacuum, or similar)
- Bump Cutter
- Compressor
- Farm Tractor
- Forklift, Industrial Type
- Gin Truck or Winch Truck (with poles when used for hoisting)
- Hoists, Air Tuggers, Elevators
- Loaders:
  - (a) Elevating-Athey, Barber Greene & similar types
  - (b) Forklifts or Lumber Carrier (on construction job sites)
  - (c) Forklifts, (with tower)
  - (d) Overhead & Front End, (under 2-1/2 yards)
- Locomotives: Dinkey (air, steam, gas & electric) Speeders
- Mechanics, Light Duty
- Oil, Blower Distribution
- Posthole Digger, Mechanical
- Pot Fireman (power agitated)
- Power Plant, Turbine Operator, (under 200 k.w.)
- Pumps, Water
- Roller (other than Asphalt)
- Saws, Concrete
- Skid Hustler
- Skid Steer (with all attachments)
- Stake Hopper
- Straightening Machine
- Tow Tractor

<b>A1605</b> Group IV, including:							<b>L&amp;M</b>	
	33.83	10.35	13.00	1.00	0.10	0.05		58.33

- Crane Assistant Engineer/Rig Oiler
- Drill Helper
- Parts & Equipment Coordinator
- Spotter

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Power Equipment Operators**  
 \*See per diem note on last page

						L&M		
<b>A1605</b>	Group IV, including:	33.83	10.35	13.00	1.00	0.10	0.05	58.33
	Steam Cleaner							
	Swamper (on trenching machines or shovel type equipment)							

**Roofers**  
 \*See per diem note on last page

						L&M		
<b>A1701</b>	Roofer & Waterproofer	44.62	11.75	3.91	0.81	0.10	0.06	61.25
<b>A1702</b>	Roofer Material Handler	31.23	11.75	3.91	0.81	0.10	0.06	47.86

**Sheet Metal Workers, Region I (North of N63 latitude)**  
 \*See per diem note on last page

						L&M		
<b>N1801</b>	Sheet Metal Journeyman	48.04	11.20	13.61	1.65	0.12		74.62
	Air Balancing and duct cleaning of HVAC systems							
	Brazing, soldering or welding of metals							
	Demolition of sheet metal HVAC systems							
	Fabrication and installation of exterior wall sheathing, siding, metal roofing, flashing, decking and architectural sheet metal work							
	Fabrication and installation of heating, ventilation and air conditioning ducts and equipment							
	Fabrication and installation of louvers and hoods							
	Fabrication and installation of sheet metal lagging							
	Fabrication and installation of stainless steel commercial or industrial food service equipment							
	Manufacture, fabrication assembly, installation and alteration of all ferrous and nonferrous metal work							
	Metal lavatory partitions							
	Preparation of drawings taken from architectural and engineering plans required for fabrication and erection of sheet metal work							
	Sheet Metal shelving							
	Sheet Metal venting, chimneys and breaching							
	Skylight installation							

**Sheet Metal Workers, Region II (South of N63 latitude)**  
 \*See per diem note on last page

						L&M		
<b>S1801</b>	Sheet Metal Journeyman	42.70	11.20	13.89	1.68	0.43		69.90
	Air Balancing and duct cleaning of HVAC systems							
	Brazing, soldering or welding of metals							

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	L&M	THR
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**Sheet Metal Workers, Region II (South of N63 latitude)**

\*See per diem note on last page

<b>S1801</b>	Sheet Metal Journeyman	42.70	11.20	13.89	1.68		<b>L&amp;M</b> 0.43	69.90
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- Demolition of sheet metal HVAC systems
- Fabrication and installation of exterior wall sheathing, siding, metal roofing, flashing, decking and architectural sheet metal work
- Fabrication and installation of heating, ventilation and air conditioning ducts and equipment
- Fabrication and installation of louvers and hoods
- Fabrication and installation of sheet metal lagging
- Fabrication and installation of stainless steel commercial or industrial food service equipment
- Manufacture, fabrication assembly, installation and alteration of all ferrous and nonferrous metal work
- Metal lavatory partitions
- Preparation of drawings taken from architectural and engineering plans required for fabrication and erection of sheet metal work
- Sheet Metal shelving
- Sheet Metal venting, chimneys and breaching
- Skylight installation

**Sprinkler Fitters**

\*See per diem note on last page

<b>A1901</b>	Sprinkler Fitter	47.35	10.23	16.15	0.52		<b>L&amp;M</b> 0.25	74.50
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**Surveyors**

\*See per diem note on last page

<b>A2001</b>	Chief of Parties	44.16	11.43	12.64	1.15		<b>L&amp;M</b> 0.10	69.48
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<b>A2002</b>	Party Chief	42.57	11.43	12.64	1.15		<b>L&amp;M</b> 0.10	67.89
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<b>A2003</b>	Line & Grade Technician/Office Technician/GPS, Drones	41.97	11.43	12.64	1.15		<b>L&amp;M</b> 0.10	67.29
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<b>A2004</b>	Associate Party Chief (including Instrument Person & Head Chain Person)/Stake Hop/Grademan	39.85	11.43	12.64	1.15		<b>L&amp;M</b> 0.10	65.17
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<b>A2006</b>	Chain Person (for crews with more than 2 people)	35.51	11.43	12.64	1.15		<b>L&amp;M</b> 0.10	60.83
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**Truck Drivers**

\*See per diem note on last page

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Truck Drivers**

\*See per diem note on last page

						L&M	
<b>A2101</b>	Group I, including:	40.94	11.43	12.64	1.15	0.10	66.26
	Air/Sea Traffic Controllers						
	Ambulance/Fire Truck Driver (EMT certified)						
	Boat Coxswain						
	Captains & Pilots (air & water)						
	Deltas, Commanders, Rollagons, & similar equipment (when pulling sleds, trailers or similar equipment)						
	Dump Trucks (including rockbuggy, side dump, belly dump, & trucks with pups) over 40 yards up to & including 60 yards						
	Helicopter Transporter						
	Liquid Vac Truck/Super Vac Truck						
	Material Coordinator or Purchasing Agent						
	Ready-mix (over 12 yards up to & including 15 yards) (over 15 yards to be negotiated)						
	Semi with Double Box Mixer						
	Tireman, Heavy Duty/Fueler						
	Water Wagon (250 Bbls and above)						
<b>A2102</b>	Group 1A including:	42.21	11.43	12.64	1.15	0.10	67.53
	Dump Trucks (including rockbuggy, side dump, belly dump & trucks with pups) over 60 yards up to & including 100 yards (over 100 yards to be negotiated)						
	Jeeps (driver under load)						
	Lowboys, including tractor attached trailers & jeeps, up to & including 12 axles (over 12 axles or 150 tons to be negotiated)						
<b>A2103</b>	Group II, including:	39.68	11.43	12.64	1.15	0.10	65.00
	All Deltas, Commanders, Rollagons, & similar equipment						
	Batch Trucks (8 yards & up)						
	Batch Trucks (up to & including 7 yards)						
	Boom Truck/Knuckle Truck (over 5 tons)						
	Cacasco Truck/Heat Stress Truck						
	Construction and Material Safety Technician						
	Dump Trucks (including rockbuggy, side dump, belly dump, & trucks with pups) over 20 yards up to & including 40 yards						
	Gin Pole Truck, Winch Truck, Wrecker (truck mounted "A" frame manufactured rating over 5 tons)						
	Mechanics						
	Oil Distributor Driver						
	Partsman						
	Ready-mix (up to & including 12 yards)						
	Stringing Truck						

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Truck Drivers**

\*See per diem note on last page

<b>A2103</b>	Group II, including:	39.68	11.43	12.64	1.15		<b>L&amp;M</b> 0.10	65.00
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Turn-O-Wagon or DW-10 (not self loading)

<b>A2104</b>	Group III, including:	38.86	11.43	12.64	1.15		<b>L&amp;M</b> 0.10	64.18
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- Boom Truck/Knuckle Truck (up to & including 5 tons)
- Dump Trucks (including rockbuggy, side dump, belly dump, & trucks with pups) over 10 yards up to & including 20 yards
- Expeditor (electrical & pipefitting materials)
- Gin Pole Truck, Winch Truck, Wrecker (truck mounted "A" frame manufactured rating 5 tons & under)
- Greaser - Shop
- Semi or Truck & Trailer
- Thermal Plastic Layout Technician
- Traffic Control Technician
- Trucks/Jeeps (push or pull)

<b>A2105</b>	Group IV, including:	38.28	11.43	12.64	1.15		<b>L&amp;M</b> 0.10	63.60
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- Air Cushion or similar type vehicle
- All Terrain Vehicle
- Buggymobile
- Bull Lift & Fork Lift, Fork Lift with Power Boom & Swing Attachment (over 5 tons)
- Bus Operator (over 30 passengers)
- Cement Spreader, Dry
- Combination Truck-Fuel & Grease
- Compactor (when pulled by rubber tired equipment)
- Dump Trucks (including rockbuggy, side dump, belly dump, & trucks with pups) up to & including 10 yards
- Dumpster
- Expeditor (general)
- Fire Truck/Ambulance Driver
- Flat Beds, Dual Rear Axle
- Foam Distributor Truck Dual Axle
- Front End Loader with Fork
- Grease Truck
- Hydro Seeder, Dual Axle
- Hyster Operators (handling bulk aggregate)
- Loadmaster (air & water operations)
- Lumber Carrier
- Ready-mix, (up to & including 7 yards)
- Rigger (air/water/oilfield)
- Tireman, Light Duty

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
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**Truck Drivers**  
 \*See per diem note on last page

						L&M	
<b>A2105</b>	Group IV, including:	38.28	11.43	12.64	1.15	0.10	63.60
	Track Truck Equipment						
	Truck Vacuum Sweeper						
	Warehouseperson						
	Water Truck (Below 250 Bbls)						
	Water Truck (straight)						
	Water Wagon, Semi						

						L&M	
<b>A2106</b>	Group V, including:	37.52	11.43	12.64	1.15	0.10	62.84
	Buffer Truck						
	Bull Lifts & Fork Lifts, Fork Lifts with Power Boom & Swing Attachments (up to & including 5 tons)						
	Bus Operator (up to 30 passengers)						
	Farm Type Rubber Tired Tractor (when material handling or pulling wagons on a construction project)						
	Flat Beds, Single Rear Axle						
	Foam Distributor Truck Single Axle						
	Fuel Handler (station/bulk attendant)						
	Gear/Supply Truck						
	Gravel Spreader Box Operator on Truck						
	Hydro Seeders, Single axle						
	Pickups (pilot cars & all light-duty vehicles)						
	Rigger/Swamper						
	Tack Truck						
	Team Drivers (horses, mules, & similar equipment)						

**Tunnel Workers, Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)**  
 \*See per diem note on last page

						L&M	LEG	
<b>N2201</b>	Group I, including:	34.88	8.95	17.81	1.30	0.20	0.20	63.34
	Brakeman							
	Mucker							
	Nipper							
	Storm Water Pollution Protection Plan Worker (SWPPP Worker - erosion and sediment control Laborer)							
	Topman & Bull Gang							
	Tunnel Track Laborer							

						L&M	LEG	
<b>N2202</b>	Group II, including:	35.98	8.95	17.81	1.30	0.20	0.20	64.44
	Burning & Cutting Torch							
	Certified Erosion Sediment Control Lead (CESCL Laborer)							

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Tunnel Workers, Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)**  
 \*See per diem note on last page

<b>N2202</b> Group II, including:	35.98	8.95	17.81	1.30		<b>L&amp;M</b>	<b>LEG</b>	64.44
						0.20	0.20	

- Concrete Laborer
- Floor Preparation, Core Drilling
- Jackhammer/Chipping Gun or Pavement Breaker
- Laser Instrument Operator
- Nozzle men, Pumpcrete or Shotcrete
- Pipelayer Helper

<b>N2203</b> Group III, including:	36.97	8.95	17.81	1.30		<b>L&amp;M</b>	<b>LEG</b>	65.43
						0.20	0.20	

- Miner
- Retimberman

<b>N2204</b> Group IIIA, including:	40.58	8.95	17.81	1.30		<b>L&amp;M</b>	<b>LEG</b>	69.04
						0.20	0.20	

- Asphalt Raker, Asphalt Belly Dump Lay Down
- Drill Doctor (in the field)
- Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)
- Pioneer Drilling & Drilling Off Tugger (all type drills)
- Pipelayer
- Powderman (Employee Possessor)
- Storm Water Pollution Protection Plan Specialist (SWPPP Specialist)
- Traffic Control Supervisor, DOT Qualified

<b>N2206</b> Group IIIB, including:	44.75	6.24	17.81	1.30		<b>L&amp;M</b>	<b>LEG</b>	70.50
						0.20	0.20	

- Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)(over 5,000 hours)
- Federal Powderman (Responsible Person in Charge)
- Grade Checking (setting or transferring of grade marks, line and grade, GPS, drones)
- Pioneer Drilling & Drilling Off Tugger (all type drills)(over 5,000 hours)
- Stake Hopper

**Tunnel Workers, Laborers (The area that is south of N63 latitude and west of W138 longitude)**  
 \*See per diem note on last page

<b>S2201</b> Group I, including:	34.88	8.95	17.81	1.30		<b>L&amp;M</b>	<b>LEG</b>	63.34
						0.20	0.20	

- Brakeman
- Mucker
- Nipper
- Storm Water Pollution Protection Plan Worker (SWPPP Worker - erosion and sediment control Laborer)

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation



**Tunnel Workers, Laborers (The area that is south of N63 latitude and west of W138 longitude)**

\*See per diem note on last page

<b>S2201</b>	Group I, including:	34.88	8.95	17.81	1.30	<b>L&amp;M</b>	<b>LEG</b>	63.34
						0.20	0.20	

Topman & Bull Gang  
Tunnel Track Laborer

<b>S2202</b>	Group II, including:	35.98	8.95	17.81	1.30	<b>L&amp;M</b>	<b>LEG</b>	64.44
						0.20	0.20	

Burning & Cutting Torch  
Certified Erosion Sediment Control Lead (CESCL Laborer)  
Concrete Laborer  
Floor Preparation, Core Drilling  
Jackhammer/Chipping Gun or Pavement Breaker  
Laser Instrument Operator  
Nozzlemen, Pumpcrete or Shotcrete  
Pipelayer Helper

<b>S2203</b>	Group III, including:	36.97	8.95	17.81	1.30	<b>L&amp;M</b>	<b>LEG</b>	65.43
						0.20	0.20	

Miner  
Retimberman

<b>S2204</b>	Group IIIA, including:	40.58	8.95	17.81	1.30	<b>L&amp;M</b>	<b>LEG</b>	69.04
						0.20	0.20	

Asphalt Raker, Asphalt Belly Dump Lay Down  
Drill Doctor (in the field)  
Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)  
Pioneer Drilling & Drilling Off Tugger (all type drills)  
Pipelayer  
Powderman (Employee Possessor)  
Storm Water Pollution Protection Plan Specialist (SWPPP Specialist)  
Traffic Control Supervisor, DOT Qualified

<b>S2206</b>	Group IIIB, including:	44.75	6.24	17.81	1.30	<b>L&amp;M</b>	<b>LEG</b>	70.50
						0.20	0.20	

Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)(over 5,000 hours)  
Federal Powderman (Responsible Person in Charge)  
Grade Checking (setting or transferring of grade marks, line and grade, GPS, drones)  
Pioneer Drilling & Drilling Off Tugger (all type drills)(over 5,000 hours)  
Stake Hopper

**Tunnel Workers, Power Equipment Operators**

\*See per diem note on last page

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
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**Tunnel Workers, Power Equipment Operators**

\*See per diem note on last page

<b>A2207</b>	Group I	45.68	10.35	13.00	1.00	L&M	0.10	0.05	70.18
<b>A2208</b>	Group IA	47.62	10.35	13.00	1.00	L&M	0.10	0.05	72.12
<b>A2209</b>	Group II	44.84	10.35	13.00	1.00	L&M	0.10	0.05	69.34
<b>A2210</b>	Group III	44.04	10.35	13.00	1.00	L&M	0.10	0.05	68.54
<b>A2211</b>	Group IV	37.21	10.35	13.00	1.00	L&M	0.10	0.05	61.71

\* Per diem is an established practice for this classification. This means that per diem is an allowable alternative to board and lodging if all criteria are met. See 8 AAC 30.051-08 AAC 30.056, and the per diem information on page vii of this Pamphlet.

\*\* Work in combination of classifications: Employees working in any combination of classifications within the diving crew (working diver, standby diver, and tender) in a shift are paid in the classification with the highest rate for a minimum of 8 hours per shift.

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation



### Tax Clearance Request Form for Contractors

Date of request: \_\_\_\_\_

Business name of the contractor a Tax Clearance is being requested for: \_\_\_\_\_

Business address: \_\_\_\_\_

Business contact phone number: \_\_\_\_\_

Federal Identification Number: \_\_\_\_\_

Alaska Employer Account Number: \_\_\_\_\_

Specific time period a tax clearance is being requested for (*i.e. beginning and ending date of a subcontract agreement*):

Subcontract project name: \_\_\_\_\_

Name and address of the person this Tax Clearance is to be returned to: \_\_\_\_\_

Comments or additional information: \_\_\_\_\_

For agency use only:

- Tax Clearance is granted
- Tax Clearance is not granted (*please have employer contact the department*)
- No account on file, liability unknown (*please have employer contact the department*)
- Employer has stated no employees, Tax Clearance not required.

Agency representative signature: \_\_\_\_\_ Date: \_\_\_\_\_

Agency representative title: \_\_\_\_\_

We are an equal opportunity employer/program. Auxiliary aids and services are available upon request to individuals with disabilities. [labor.alaska.gov/estax](http://labor.alaska.gov/estax)

**SECTION 00 6200 – COMPLIANCE CERTIFICATE AND RELEASE FORM**

**PROJECT: JNU Sand Shed Demolition**  
**CONTRACT NO: BE20-187**

The **CONTRACTOR** must complete and submit this form to the Contract Administrator with respect to the entire contract and submit completed Subcontractor Compliance forms for each Subcontractor used on the Contract and listed on the Subcontractor report.

Completed forms shall be submitted upon completion of the Project. All requirements and submittals must be met before final payment will be made to the Contractor.

*I certify that the following and any referenced attachments are true:*

- All Work has been performed, materials supplied, and requirements met in accordance with the applicable Drawings, Specifications, and Contract Documents.
- All payments to Subcontractors and Suppliers have been made in accordance with Alaska Statute 36.90.210. If not, please provide written explanation, for each case, why and the specific mutual payment agreement reached with the Supplier or Subcontractor.
- CHECK ONE:
  - All Suppliers and Subcontractors have been paid in full with no claims for labor, materials or other services outstanding.
  - The following Suppliers and Subcontractors are due final payment which will be made upon the release of the final payment by the CBJ. List the Suppliers and Subcontractors and the amount they are due below (attach separate sheet if necessary):
  -

	Supplier or Subcontractor	Amount Owed
1.		\$
2.		\$
3.		\$
4.		\$
5.		\$
6.		\$
7.		\$

**SECTION 00 6200 – COMPLIANCE CERTIFICATE AND RELEASE FORM**

- All employees have been paid not less than the current prevailing wage rates set by the State of Alaska (or U.S. Department of Labor, as applicable).
- All equal employment opportunity, certified payroll and other reports have been filed in accordance with the prime contract.
- The attached list of Subcontractors is complete (required from Contractor). The Project Manager was advised and approved of all Subcontractors before Work was performed and has approved any substitutions of Subcontractors.
- All DBE firms listed as a precondition of the prime contract award must have performed a commercially useful function in order for the Work to count to a DBE goal. All DBE firms performed the Work stated and have received at least the amount claimed for credit in the Contract Documents.
- All DBE Subcontractors must attach a signed statement of the payment amount received, the nature of Work performed, whether any balance is outstanding, and indicate that no rebates are involved.
- If the amount paid is less than the amount originally claimed for DBE credit, the Contractor has attached approval from the Project Manager for underutilization.

*I understand it is unlawful to misrepresent information in order to receive a payment which would otherwise be withheld if these conditions were not met. I am an authorized agent of this firm and sign this freely and voluntarily. The foregoing statements are true and apply to the following Contractor.*

\_\_\_\_\_ Capacity: Contractor  
Firm Name

\_\_\_\_\_  
Signature

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

\_\_\_\_\_  
Date

Return completed form to: Engineering Contracts Division, City and Borough of Juneau, 155 South Seward Street, Juneau, AK 99801 or by email to: [contracts@juneau.org](mailto:contracts@juneau.org)

Call (907) 586-0873 if we can be of further assistance or if you have any questions.

**SECTION 00 6200 – COMPLIANCE CERTIFICATE AND RELEASE FORM**

**SUBCONTRACTOR COMPLIANCE CERTIFICATE AND RELEASE FORM**

**PROJECT: JNU Sand Shed Demolition**  
**CONTRACT NO: BE20-187**

Each **SUBCONTRACTOR** must complete and submit this form to the Contract Administrator, through the General Contractor, with respect to the entire contract.

Completed forms shall be submitted upon completion of the Project. All requirements and submittals must be met before final payment will be made to the **CONTRACTOR**.

*I certify that the following and any referenced attachments are true:*

- All **WORK** has been performed, materials supplied, and requirements met in accordance with the applicable Drawings, Specifications, and Contract Documents.
  
- \_\_\_\_\_(name of firm) has been paid by the Contractor in accordance with Alaska Statute 36.90.210. (If not, please provide written explanation on an attached sheet, for each case. Provide specific details why payment was not made and the specific mutual payment agreement reached with the Contractor if it is still unresolved.)
  
- **CHECK ONE:**
  - I / WE have been paid in full by the Contractor, with no claims for labor, materials or other services outstanding.
  
  - I / WE are due the following amount from the Contractor which is included in the Contractors Request for Final Payment. WE are due a total of \$\_\_\_\_\_ for the following individual items that have yet to be paid (attach separate sheet if necessary).

	Outstanding Payment Item	Outstanding Amount Owed
1.		\$
2.		\$
3.		\$
4.		\$
5.		\$
6.		\$
7.		\$

- All employees have been paid not less than the current prevailing wage rates set by the State of Alaska (or U.S. Department of Labor, as applicable).

**SECTION 00 6200 – COMPLIANCE CERTIFICATE AND RELEASE FORM**

- All equal employment opportunity, certified payroll and other reports have been filed in accordance with the prime contract.

*I understand it is unlawful to misrepresent information in order to receive a payment which would otherwise be withheld if these conditions were not met. I am an authorized agent of this firm and sign this freely and voluntarily. The foregoing statements are true and apply to the following project contractor.*

\_\_\_\_\_ Capacity: SUBCONTRACTOR  
Firm Name

\_\_\_\_\_  
Sign

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

\_\_\_\_\_  
Date

Prime Contractor shall return completed form to: Engineering Contracts Division, City and Borough of Juneau, 155 South Seward Street, Juneau, AK 99801 or email: greg.smith@juneau.org Call (907) 586-0873 if we can be of further assistance or if you have any questions.

**END OF SECTION 00 6200**

# GENERAL CONDITIONS OF THE CONTRACT – 00 7000

**For the following Project:**      **JNU Sand Shed Demolition**  
Juneau International Airport  
1873 Shell Simmons Drive, Suite 200  
Juneau, Alaska 99801

**The Owner:**                      **Juneau International Airport**  
**City and Borough of Juneau**

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# GENERAL CONDITIONS OF THE CONTRACT – 00 7000

## ARTICLE 1 GENERAL PROVISIONS

### § 1.1 BASIC DEFINITIONS

#### § 1.1.1 THE CONTRACT DOCUMENTS

The Contract Documents consist of the Agreement between Owner and Contractor (hereinafter the Agreement), Conditions of the Contract (General and Supplementary), drawings, specifications, addenda issued prior to execution of the Contract, other documents listed in the Agreement and modifications issued after execution of the Contract. Unless specifically enumerated in the Agreement, the Contract Documents do not include other documents such as bidding requirements (advertisement or invitation to bid, Instructions to Bidders, sample forms, the Contractor's bid or portions of addenda relating to bidding requirements).

#### § 1.1.2 THE CONTRACT

The Contract Documents form the Contract for Construction. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations or agreements, either written or oral. The Contract may be amended or modified only by a modification. The Contract Documents shall not be construed to create a contractual relationship of any kind (1) between the Architect/Engineer and Contractor, (2) between the Owner and a subcontractor (of any tier), (3) between the Owner and Architect/Engineer or (4) between any persons or entities other than the Owner and Contractor.

#### § 1.1.3 THE WORK

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

#### § 1.1.4 THE PROJECT

The project is the total construction of which the Work performed under the Contract Documents may be the whole or a part and which may include construction by the Owner or 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 work quality for the Work, and performance of related services.

#### § 1.1.7 THE PROJECT MANUAL

The project manual is a volume assembled for the Work that may include the bidding requirements, sample forms, Conditions of the Contract and specifications.

#### § 1.1.8 OTHER DEFINITIONS

Advisory Circulars (ACs) - Informational documents produced by the Federal Aviation Administration to guide institutions, operations, and individuals within the aviation industry, as well as the general public. Advisory Circulars are intended to be informative in nature; however, they may describe actions or advice that the FAA expects to be implemented or followed.

Agreement - The written form, executed by the Contractor and Owner, legally binding the parties and covering the Work to be performed; other documents are attached to the form and made a part thereof as provided therein.

Airport Improvement Program (AIP) - A grant-in-aid program administered by the FAA.

Air operations area (AOA) - For the purpose of these specifications, the term air operations area (AOA) shall mean any area of the airport used or intended to be used for the landing, takeoff, or surface maneuvering of aircraft. An air operation area shall include such paved or unpaved areas that are used or intended to be used for the unobstructed movement of aircraft in addition to its associated runway, taxiway, or apron.

## GENERAL CONDITIONS OF THE CONTRACT – 00 7000

Airport - An area of land or water that is used or intended to be used for the landing and takeoff of aircraft; an appurtenant area used or intended to be used for airport buildings or other airport facilities or rights of way; and airport buildings and facilities located in any of these areas.

Architect - See Article 4.

Asbestos - Any material that contains more than one percent asbestos and is friable or is releasing asbestos fibers into the air above current action levels established by the United States Occupational Safety and Health Administration.

Bid - The bidder's offer or proposal submitted on the prescribed form setting forth the price or prices for the Work.

Change Order - See Article 7.

Construction Safety and Phasing Plan (CSPP) - The overall plan for safety and phasing of a construction project developed by the airport operator, or developed by the airport operator's consultant and approved by the airport operator. It is included in the invitation for bids and becomes part of the project specifications.

Contract and Contract Documents - Written documents covering the Work to be performed. The awarded contract shall include, but is not limited to the documents identified in the Agreement between Owner and Contractor.

Contractor - See Article 3.

Defective Work - Work that is unsatisfactory, faulty, or deficient; or that does not conform to the Contract Documents; or that does not meet the requirements of any inspection, reference standard, test, or approval referred to in the Contract Documents; or Work that has been damaged prior to the Owner's Representative's recommendation of final payment.

Effective Date of the Agreement - The date indicated in the Agreement on which it becomes effective, but if no such date is indicated it means the date on which the Agreement is signed and delivered by the last of the parties to sign and deliver.

Engineer - See Article 4.

FAA - The Federal Aviation Administration of the U.S. Department of Transportation. When used to designate a person, FAA shall mean the Administrator or its duly authorized representative.

Federal Specifications - The Federal Specifications and Standards, Commercial Item Descriptions, and supplements, amendments, and indices thereto are prepared and issued by the General Services Administration of the Federal Government.

Furnish - To purchase and deliver to the project.

Inspector - A representative of the Owner or Architect/Engineer assigned to make necessary inspections, observations, and/or tests of the Work performed or being performed, or of the materials furnished or being furnished by the Contractor, but without authorization to make changes or interpretations of the Work.

Install - To set in place and make usable.

Milestone - A key or critical point in time for reference or measurement.

Modification - (1) a written amendment to the Contract signed by both parties, (2) a Change Order, (2) a Construction Change Directive or (3) a written order for a minor change in the Work issued by the Owner.

Notice of Intent to Award - The written notice by the Owner to the apparent successful bidder stating that upon compliance by the apparent successful bidder with the requirements listed therein, within the time specified, the Owner will enter into an Agreement.

## GENERAL CONDITIONS OF THE CONTRACT – 00 7000

Notice of Award - The written notice by the Owner to the apparent successful bidder stating that the apparent successful bidder has complied with all conditions for award of the Contract, and establishing the date of commencement of the Contract time.

Notice of Substantial Completion - A form signed by the Owner and the Contractor identifying that the Work is substantially complete and fixing the date of Substantial Completion.

Notice To Proceed - The written notice issued by the Owner to the Contractor authorizing the Contractor to proceed with the Work.

Orders – Guidance documents published by the FAA that outline procedures and regulatory requirements.

Owner and Owner's Representative – See Article 2.

Provide – To furnish, install, and/or to perform all work necessary to complete the work.

Runway - The area on the airport prepared for the landing and takeoff of aircraft.

Sponsor - A Sponsor is defined in 49 USC § 47102(24) as a public agency that submits to the FAA for an AIP grant; or a private Owner of a public-use airport that submits to the FAA an application for an AIP grant for the airport.

Sub-Consultant - The individual, partnership, corporation, joint-venture or other legal entity having a direct contract with the Architect/Engineer, or with any of its consultants to furnish services with respect to the project.

Subcontractor - See Article 5.

Supplier - A material manufacturer, fabricator, supplier, distributor, or vendor.

Taxiway - For the purpose of this document, the term taxiway means the portion of the air operations area of an airport that has been designated by competent airport authority for movement of aircraft to and from the airport's runways, aircraft parking areas, hangars and terminal areas.

Underground Utilities - All pipelines, culverts, conduits, duct banks, cables, conductors, wires, manholes, vaults, tanks, tunnels, or other such facilities or attachments, and any encasements containing such facilities which have been installed underground to furnish any of the following services or materials: water, sewage and drainage removal, electricity, gases, steam, liquid petroleum products, telephone or other communications, cable television, traffic, or other control systems.

Using Agency - The entity that will occupy or use the completed project.

Working day - A working day shall be any day other than a legal holiday, Saturday, or Sunday on which the normal working forces of the Contractor may proceed with regular work for at least six (6) hours toward completion of the contract. When Work is suspended for causes beyond the Contractor's control, it will not be counted as a working day. Saturdays, Sundays and holidays on which the Contractor's forces engage in regular work will be considered as working days.

### § 1.2 CORRELATION AND INTENT OF THE CONTRACT DOCUMENTS

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

§ 1.2.2 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.

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§ 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 If any portion of the Contract Documents is in conflict with any other portion, the various documents comprising the Contract Documents shall govern in the following order of precedence:

- Permits from other agencies as may be required by law, excepting the definition of “permittee” in these permits.
- Modifications
- The Owner-Contractor Agreement;
- Addenda;
- Section 008000 – Supplementary General Conditions;
- Section 007000 – General Conditions of the Contract for Construction;
- Specifications – Embodying all other sections of the project manual;
- Drawings: as between schedules and information given on drawings, the schedules shall govern; as between written dimensions given on drawings and scaled measurements, the written dimensions shall govern; as between large-scale drawings and small-scale drawings, the larger scale shall govern;
- Performance Bond, Labor and Material Payment Bond.

All such conflicts shall be reported, in writing to the Owner’s Representative. Schedules, lists, indexes, tables, inventories, written instruction, written descriptions, summaries, statements, classifications, specifications, written selections or written designations, although appearing on the drawings, are deemed to be and are specifications as defined by this section. The principles as set forth herein shall not alter the provisions of Section 1.2.1.

In the event there is a conflict between or among any provisions within one of the component parts of the Contract Documents, the higher standard or more stringent requirement shall govern.

§ 1.2.5 Any material or operation specified by reference to published specifications of a manufacturer, published Advisory Circulars, a society, an association, a code or other published standard shall comply with requirements of the listed document and project specifications; as between referenced documents, the more stringent code or performance requirements shall govern. The Contractor, if requested, shall furnish an affidavit from the manufacturer certifying that the materials or products delivered to the Project meet the requirement specified.

### § 1.3 CAPITALIZATION

§ 1.3.1 Terms written with title capitalization in these General Conditions include those that are (1) specifically defined, (2) the titles of numbered articles or (3) the titles of other documents.

### § 1.4 INTERPRETATION

§ 1.4.1 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 EXECUTION OF CONTRACT DOCUMENTS

§ 1.5.1 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.

### § 1.6 OWNERSHIP AND USE OF DRAWINGS, SPECIFICATIONS AND CONTRACT DOCUMENTS

§ 1.6.1 Neither the Contractor, nor any subcontractor or supplier, nor any other person or organization performing any of the Work under a contract with the Owner shall have or acquire any title to or ownership rights in any of the drawings, technical specifications, or other documents used on the Work, and they shall not reuse any of them on the extensions of the project or any other project without written consent of the Owner.

### § 1.7 FEDERAL CONTRACT PROVISIONS

§ 1.7.1 The Contractor shall comply with and shall incorporate into all subcontracts all applicable federal contract provisions identified in the Supplementary General Conditions throughout the bidding, award, and performance of

## GENERAL CONDITIONS OF THE CONTRACT – 00 7000

this Contract.

### ARTICLE 2 OWNER

#### § 2.1 GENERAL

§ 2.1.1 The Owner is the City and Borough of Juneau, acting through its legally constituted officials, officers, or employees and is referred to throughout the Contract Documents as if singular in number. For purposes of this project, the Owner shall be the Juneau International Airport who, through its Manager, 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. This person shall be titled the Owner's Representative and referred to in the Contract Documents as Owner or Owner's Representative.

#### § 2.2 INFORMATION AND SERVICES REQUIRED OF THE OWNER

§ 2.2.1 Except for permits and fees, including those required under Section 3.7 that are the responsibility of the Contractor under the Contract Documents, the Owner shall secure and pay for necessary approvals, easements, assessments and charges required for construction, use or occupancy of permanent structures or for permanent changes in existing facilities.

§ 2.2.2 Owner shall apply for, and obtain, a building permit for this project and shall pay for any inspection or review fees imposed by jurisdictional authorities under the building permit. In addition, the Owner shall utilize and pay for the services of an inspector for Work requiring "special inspections" as designated by the building permit.

§ 2.2.3 Information or services required of the Owner by the Contract Documents shall be furnished by the Owner with reasonable promptness. Any other information or services relevant to the Contractor's performance of the Work under the Owner's control shall be furnished by the Owner after receipt from the Contractor of a written request for such information or services.

§ 2.2.4 Unless otherwise provided in the Contract Documents, the Owner shall furnish the Contractor, free of charge, six 11"x17" sets of conformed drawings, and six copies of the conformed project manual.

#### § 2.3 OWNER'S RIGHT TO STOP THE WORK

§ 2.3.1 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 persistently fails to carry out Work in accordance with the Contract Documents, the Owner may issue a written order to the Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, the right of the Owner to stop the Work shall not give rise to a duty on the part of the Owner to exercise this right for the benefit of the Contractor or any other person or entity, except to the extent required by Section 6.1.

#### § 2.4 OWNER'S RIGHT TO CARRY OUT THE WORK

§ 2.4.1 If the Contractor defaults or neglects to 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 after such seven-day period give the Contractor a second written notice to correct such deficiencies within a three-day period. If the Contractor within such three-day period after receipt of such second notice fails to commence and continue to correct any deficiencies, the Owner may, without prejudice to other remedies the Owner may have, correct such deficiencies. In such case an appropriate Change Order shall be issued deducting from payments then or thereafter due the Contractor the reasonable cost of correcting such deficiencies, including Owner's expenses and compensation for the Architect's additional services made necessary by such default, neglect or failure. If payments then or thereafter due the Contractor are not sufficient to cover such amounts, the Contractor shall pay the difference to the Owner.

#### § 2.5 OWNER'S RIGHT TO INSPECT RECORDS

§ 2.5.1 The Owner, or any of its duly authorized representatives, shall have the right to examine all project records and documents, including without limitation, all books, correspondence, reports, analyses, instructions, drawings, receipts, vouchers, memoranda, and all financial and accounting books, records, and data, including those related to cost or pricing for this Contract, all related Change Orders and Contract modifications, and all other documents of the Contractor and any tier Subcontractors that are directly pertinent to this specific Contract for the purpose of making

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an audit, examination, reproduction, excerpts, or transcriptions. All required records, as further described in Section 13.8, shall be retained by the Contractor and its Subcontractors after the Owner makes final payments and all other pending matters are closed.

### 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 term "Contractor" means the Contractor or the Contractor's authorized representative as identified in writing by the Contractor.

§ 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 obligations to perform the Work in accordance with the Contract Documents either by activities or duties of the Architect/Engineer or the Owner's Representative in the administration of the Contract, or by tests, inspections or approvals required or performed by persons other than the Contractor.

#### § 3.2 REVIEW OF CONTRACT DOCUMENTS AND FIELD CONDITIONS BY CONTRACTOR

§ 3.2.1 Before starting each portion of the Work, the Contractor shall carefully study and compare the various drawings and other Contract Documents relative to that portion of the Work, shall conduct utility locates and take field measurements of any existing conditions related to that portion of the Work and shall observe any conditions at the site affecting it. These obligations are for the purpose of facilitating construction by the Contractor and are not for the purpose of discovering errors, omissions, or inconsistencies in the Contract Documents; however, any errors, inconsistencies or omissions discovered by the Contractor shall be reported promptly to Owner as a request for information.

§ 3.2.2 Any design errors or omissions noted by the Contractor during this review shall be reported promptly to the Owner, 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. The Contractor is not required to ascertain that the Contract Documents are in accordance with applicable laws, statutes, ordinances, building codes, and rules and regulations, but any nonconformity discovered by or made known to the Contractor shall be reported promptly to the Owner. This does not release the Contractor from the obligation to perform Work in conformance with all provisions of federal, state, and local laws and regulations.

§ 3.2.3 If the Contractor believes that additional cost or time is involved because of clarifications or instructions issued by the Owner in response to the Contractor's notices or requests for information pursuant to Sections 3.2.1 and 3.2.2, the Contractor shall make Claims as provided in Sections 4.3. If the Contractor fails to perform the obligations of Sections 3.2.1 and 3.2.2, the Contractor shall pay such costs and damages to the Owner as would have been avoided if the Contractor had performed such obligations. The Contractor shall not be liable to the Owner or Architect/Engineer for damages resulting from errors, inconsistencies or omissions in the Contract Documents or for differences between field measurements or conditions and the Contract Documents unless the Contractor recognized such error, inconsistency, omission or difference and knowingly failed to report it to the Owner.

#### § 3.3 SUPERVISION AND CONSTRUCTION PROCEDURES

§ 3.3.1 The Contractor shall supervise and direct the Work, using its 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, unless the Contract Documents give other specific instructions concerning these matters. 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 fully and 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 shall not proceed with that portion of the Work without further written instructions from the Owner. If the Contractor is then instructed to proceed with the required means, methods, techniques, sequences or procedures without acceptance of changes proposed by the Contractor, the Owner shall be solely responsible for any resulting loss or damage.



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§ 3.3.2 The Contractor shall control its operations and the operations of its subcontractors and all suppliers to provide for the free and unobstructed movement of aircraft in the air operations areas (AOA) of the airport.

- .1 When the Work requires the Contractor to conduct its operations within an AOA of the airport, the Work shall be coordinated with designated airport operations personnel (through the Owner) at least 48 hours prior to commencement of such work. The Contractor shall not close an AOA until so authorized by the Owner and until the necessary temporary marking and associated lighting is in place.
- .2 When the Work requires the Contractor to work within an AOA of the airport on an intermittent basis (intermittent opening and closing of the AOA), the Contractor shall maintain constant communications as specified; immediately obey all instructions to vacate the AOA; immediately obey all instructions to resume work in such AOA. Failure to maintain the specified communications or to obey instructions shall be cause for suspension of the Contractor's operations in the AOA until the satisfactory conditions are provided.

§ 3.3.3 The Contractor shall conform to safety standards contained in AC 150/5370-2, Operational Safety on Airports During Construction

- .1 All of the Contractor's operations shall be conducted in accordance with the project Construction Safety and Phasing Plan (CSPP) and the provisions set forth within the current version of AC 150/5370-2. The CSPP included within the contract documents conveys minimum requirements for operational safety on the airport during construction activities. The Contractor shall prepare and submit a Safety Plan Compliance Document that details how it proposes to comply with the requirements presented within the CSPP.
- .2 The Contractor shall implement all necessary safety plan measures prior to commencement of any work activity. The Contractor shall conduct routine checks to assure compliance with the safety plan measures.
- .3 The Contractor is responsible for the conduct of all subcontractors it employs on the project. The Contractor shall assure that all subcontractors are made aware of the requirements of the CSPP and that they implement and maintain all necessary measures.
- .4 No deviation or modifications may be made to the approved CSPP unless approved in writing by the Owner.

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

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

§ 3.3.6 The Contractor shall maintain the Work during construction and until the Work is accepted. Maintenance shall constitute continuous and effective work prosecuted day by day, with adequate equipment and forces so that the Work is maintained in satisfactory condition at all times. In the case of a contract for the placing of a course upon a course or subgrade previously constructed, the Contractor shall maintain the previous course or subgrade during all construction operations. All costs of maintenance work during construction and before the project is accepted shall be included in the unit prices bid on the various contract items or within the lump sum, and the Contractor will not be paid an additional amount for such work.

### § 3.4 LABOR AND MATERIALS

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

§ 3.4.2 The Contractor may make substitutions only with the consent of the Owner, after evaluation by the Owner and in accordance with a Change Order.

§ 3.4.3 The Contractor shall enforce strict discipline and good order among the Contractor's employees and other persons carrying out the Contract. The Contractor shall not permit employment of unfit persons or persons not skilled

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in tasks assigned to them. Any person employed by the Contractor or by any subcontractor who, in the opinion of the Owner, does not perform the Work in a proper and skillful manner, or is intemperate or disorderly shall, at the written request of the Owner be removed forthwith by the Contractor or Subcontractor employing such person, and shall not be employed again in any portion of the Work without the approval of the Owner. Should the Contractor fail to remove such person or persons as required above, or fail to furnish suitable and sufficient personnel for the proper prosecution of the Work, the Owner may suspend the Work by written notice until such orders are complied with.

### § 3.5 WARRANTY

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

### § 3.6 TAXES

§ 3.6.1 The Contractor shall pay sales, consumer, use and similar taxes for the Work provided by the Contractor which are legally enacted when bids are received or negotiations concluded, whether or not yet effective or merely scheduled to go into effect.

### § 3.7 PERMITS, FEES AND NOTICES

§ 3.7.1 Except as provided under Article 2.2, and unless otherwise provided in the Contract Documents, the Contractor shall cooperate with the Owner who will apply for, obtain, and pay for necessary building permits. The Contractor shall schedule and coordinate all necessary inspections and obtain all required certificates required by the building permit, even when such building permit is obtained by the Owner.

§ 3.7.2 The Contractor shall comply with and give notices required by laws, ordinances, rules, regulations and lawful orders of public authorities applicable to performance of the Work. Prior to commencement of construction activities the Contractor shall post the following documents in a prominent and accessible place where they may be easily viewed by all employees of the prime Contractor and by all employees of subcontractors engaged by the prime Contractor: Equal Employment Opportunity (EEO) Poster "Equal Employment Opportunity is the Law" in accordance with the Office of Federal Contract Compliance Programs Executive Order 11246, as amended; Davis Bacon Wage Poster (WH 1321) - DOL "Notice to All Employees" Poster; and Applicable Davis-Bacon Wage Rate Determination. These notices must remain posted until final acceptance of the work by the Owner.

§ 3.7.3 It is not the Contractor's responsibility to ascertain that the Contract Documents are in accordance with applicable laws, statutes, ordinances, building codes, and rules and regulations. However, if the Contractor observes that portions of the Contract Documents are at variance therewith, the Contractor shall promptly notify the Owner in writing, and necessary changes shall be accomplished by appropriate modification.

§ 3.7.4 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 Owner, the Contractor shall assume appropriate responsibility for such Work and shall bear the costs attributable to correction.

§ 3.7.5 Certified Payrolls. Any Contractor or Subcontractor who performs Work on a public construction Contract for the Owner shall file a certified payroll with the Alaska Department of Labor before the second Friday of every two weeks that covers the preceding two weeks. (Section 14-2-4 ACLA 1949; am Section 4 ch 142 SLA 1972).

- .1 In lieu of submitting the State payroll form, the Contractor's standard payroll form may be submitted, provided it contains the information required by AS 36.05.040 and a statement that the Contractor is complying with AS 36.10.010.
- .2 A Contractor or Subcontractor who performs Work on public construction in the State, as defined by AS 36.95.010(3), shall pay not less than the current prevailing rate of wages as issued by the Alaska Department of Labor before the end of the pay period. (AS 36.05.010).

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**§ 3.7.6 Prevailing Wage Rates.** Wage rates for Laborers and Mechanics on Public Contracts, AS 36.05.070. The Contractor, or Subcontractors, shall pay all employees unconditionally and not less than once a week. Wages may not be less than those stated in Section 3.7.5.2, regardless of the contractual relationship between the Contractor or Subcontractors and laborers, mechanics, or field surveyors. The scale of wages to be paid shall be posted by the Contractor in a prominent, easily accessible place at the site of the Work.

- .1 Failure to Pay Agreed Wages, AS 36.05.080. If it is found that a laborer, mechanic, or field surveyor employed by the Contractor or Subcontractor has been, or is being, paid a rate or wages less than the established rate, the Owner may, by written notice, terminate the Contractor's or Subcontractor's right to proceed with the Work. The Owner may prosecute the Work to completion by contract or otherwise, and the Contractor and sureties will be held liable to the Owner for excess costs for completing the Work. (Section 2 ch 52 SLA 1959).
- .2 Listing Contractors Who Violate Contracts, AS 36.05.090. In addition, a list giving the names of persons who have disregarded the rights of their employees shall be distributed to all departments of State government and all political subdivisions. No person appearing on this list, and no firm, corporation, partnership or association in which the person has an interest, may work as a Contractor or Subcontractor on a public construction Contract for the State, or a political subdivision of the State, until three years after the date of publication of the list. (Section 3 ch 52 SLA 1959; am Section 9 ch 142 SLA).

### § 3.8 ALLOWANCES

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

**§ 3.8.2** Unless otherwise provided in the Contract Documents:

- .1 allowances shall cover the cost to the Contractor of materials and equipment delivered at the site and all required taxes, less applicable trade discounts;
- .2 Contractor's costs for unloading and handling at the site, labor, installation costs, overhead, profit and other expenses contemplated for stated allowance amounts shall be included in the contract sum but not in the allowances;
- .3 whenever costs are more than or less than allowances, the contract sum shall be adjusted accordingly by Change Order. The amount of the Change Order shall reflect (1) the difference between actual costs and the allowances under Section 3.8.2.1 and (2) changes in Contractor's costs under Section 3.8.2.2.

**§ 3.8.3** Materials and equipment under an allowance shall be selected by the Owner in sufficient time to avoid delay in the Work.

### § 3.9 SUPERINTENDENT

**§ 3.9.1** The Contractor shall employ a competent superintendent and necessary assistants who shall be in attendance at the project site during performance of the Work. The superintendent shall represent the Contractor, and communications given to the superintendent shall be as binding as if given to the Contractor. Superintendent must have negotiating authority for contract modifications.

- .1 The Contractor shall provide written notification to the Owner before changing the project manager and/or superintendent during the course of construction.
- .2 If at any time the project manager and/or superintendent is not satisfactory to the Owner, the Contractor shall, if requested by the Owner, replace the project manager and/or superintendent with another that is satisfactory to the Owner.

### § 3.10 CONTRACTOR'S CONSTRUCTION SCHEDULES

**§ 3.10.1** The Contractor, promptly after being awarded the Contract, shall prepare and submit for the Owner's information a Contractor's construction schedule for the Work. The schedule shall not exceed time limits current under the Contract Documents, shall be revised at intervals as required by the Contract Documents, 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.

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§ 3.10.2 The Contractor shall prepare and keep current, for the Owner's approval, a schedule of submittals that is coordinated with the Contractor's construction schedule and allows the Architect/Engineer and Owner reasonable time to review submittals.

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

### **§ 3.11 DOCUMENTS AND SAMPLES AT THE SITE**

§ 3.11.1 The Contractor shall maintain at the site for the Owner one record copy of the drawings, specifications, addenda, Change Orders and other modifications, in good order and marked currently to record field changes and selections made during construction, and one record copy of approved shop drawings, product data, samples and similar required submittals. These shall be made available to the Owner at any time and shall be updated and submitted to the Owner as required by 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 of any tier, 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 which illustrate materials, equipment or work quality 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. The purpose of their submittal is to demonstrate for those portions of the Work for which submittals are required by the Contract Documents the way that the Contractor proposes to conform to the information given and the design concept expressed in the Contract Documents. Review by the Architect/Engineer is subject to the limitations of Section 4.2.11. Informational submittals upon which the Architect/Engineer and Owner are 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 A/E or Owner without action.

§ 3.12.5 The Contractor shall review for compliance with the Contract Documents, approve and submit to the Owner shop drawings, product data, samples and similar submittals required by the Contract Documents 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. Submittals that are not marked as reviewed for compliance with the Contract Documents and approved by the Contractor may be returned by the Architect/Engineer or Owner without action.

§ 3.12.6 By approving and submitting shop drawings, product data, samples and similar submittals, the Contractor represents that it has determined and verified materials, field measurements and field construction criteria related thereto, or will do so, and has checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents.

§ 3.12.7 The Contractor shall perform no portion of the Work for which the Contract Documents require submittal and review of shop drawings, product data, samples or similar submittals until the respective submittal has been approved by the Owner.

§ 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 requirements of the Contract Documents by the Owner's approval of shop drawings, product data, samples or similar submittals unless the Contractor has specifically informed the Owner in writing of such deviation at the time of submittal and (1) the Owner has given written approval to the specific deviation as a minor change in the Work, or (2) a Change Order or Construction Change Directive has been issued authorizing the deviation. The Contractor shall not be relieved of responsibility for errors or omissions in shop drawings, product data, samples or similar submittals by the Owner's approval thereof.

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§ 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 Owner on previous submittals. In the absence of such written notice the Owner's approval of a resubmission shall not apply to such revisions.

§ 3.12.10 The Contractor shall provide professional services that constitute the practice of architecture, engineering, or land surveying where such services are specifically required by the Contract Documents for a portion of the Work or where 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. 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/Engineer 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. 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 Owner. The Owner and the A/E shall be entitled to rely upon the adequacy, accuracy and completeness of the services, certifications or approvals performed by such design professionals, provided the Owner and A/E have specified to the Contractor all performance and design criteria that such services must satisfy. Pursuant to this section, the A/E 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. The Contractor shall not be responsible for the adequacy of the performance or design criteria required by the Contract Documents.

### § 3.13 USE OF SITE

§ 3.13.1 The Contractor shall confine operations at the site to areas permitted by law, ordinances, permits and the Contract Documents and shall not unreasonably encumber the site with materials or equipment. Activities not related to the execution of the Work, unless specifically permitted by the Owner, are prohibited.

§ 3.13.2 It is the explicit intention of the contract that the safety of aircraft, as well as the Contractor's equipment and personnel, is the most important consideration.

- .1 The Contractor shall provide for the free and unobstructed movement of aircraft in the air operations areas (AOAs) of the airport with respect to its own operations and the operations of all subcontractors as specified in Article 3 Section 3.3. It is further understood and agreed that the Contractor shall provide for the uninterrupted operation of visual and electronic signals (including power supplies thereto) used in the guidance of aircraft while operating to, from, and upon the airport as specified in in applicable sections of the contract documents.
- .2 The Contractor shall provide marking, lighting, and other acceptable means of identifying personnel, equipment, vehicles, storage areas, and any work area or condition that may be hazardous to the operation of aircraft, fire-rescue equipment, or maintenance vehicles at the airport.
- .3 When the contract requires the maintenance of vehicular traffic on an existing road, street, or highway during the Contractor's performance of work that is otherwise provided for in the contract, plans, and specifications, the Contractor shall keep such road, street, or highway open to all traffic and shall provide such maintenance as may be required to accommodate traffic. The Contractor shall be responsible for the repair of any damage caused by the Contractor's equipment and personnel. The Contractor shall furnish, erect, and maintain barricades, warning signs, flag person, and other traffic control devices in reasonable conformity with the Manual on Uniform Traffic Control Devices at [mutcd.fhwa.dot.gov](http://mutcd.fhwa.dot.gov), unless otherwise specified. The Contractor shall also construct and maintain in a safe condition any temporary connections necessary for ingress to and egress from abutting property or intersecting roads, streets or highways. Unless otherwise specified herein, the Contractor will not be required to furnish snow removal for such existing road, street, or highway.

§ 3.13.3 The Contractor shall furnish, erect, and maintain all barricades, warning signs, and markings for hazards necessary to protect the public and the work until their removal is directed by the Owner. When used during periods of darkness, such barricades, warning signs, and hazard markings shall be suitably illuminated. Unless otherwise specified, barricades, warning signs, and markings for hazards that are in the air operations area (AOAs) shall be a maximum of 18 inches high. Unless otherwise specified, barricades shall be spaced not more than 4 feet apart.

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For vehicular and pedestrian traffic, the Contractor shall furnish, erect, and maintain barricades, warning signs, lights and other traffic control devices in reasonable conformity with the Manual on Uniform Traffic Control Devices.

When the Work requires closing an air operations area of the airport or portion of such area, the Contractor shall furnish, erect, and maintain temporary markings and associated lighting conforming to the requirements of advisory circular (AC) 150/5340-1, Standards for Airport Markings.

The Contractor shall furnish, erect, and maintain markings and associated lighting of open trenches, excavations, temporary stock piles, and the Contractor's parked construction equipment that may be hazardous to the operation of emergency fire-rescue or maintenance vehicles on the airport in reasonable conformance to AC 150/5370-2, Operational Safety on Airports During Construction.

The Contractor shall identify each motorized vehicle or piece of construction equipment in reasonable conformance to AC 150/5370-2.

### § 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.

§ 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 such construction by the Owner or a separate contractor except with written consent of the Owner and of such separate contractor; such consent shall not be unreasonably withheld. The Contractor shall not unreasonably withhold from the Owner or a separate contractor the Contractor's consent to cutting or otherwise altering the Work.

### § 3.15 CLEANING UP

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

§ 3.15.2 If the Contractor fails to clean up as provided in the Contract Documents, the Owner may do so and the cost thereof shall be charged to the Contractor.

### § 3.16 ACCESS TO WORK

§ 3.16.1 The Contractor shall provide the Owner and Architect/Engineer access to the Work in preparation and progress wherever located. The Contractor shall provide safe facilities for such access so the Owner and A/E may perform their functions under the Contract Documents.

### § 3.17 ROYALTIES, PATENTS AND COPYRIGHTS

§ 3.17.1 The Contractor shall pay all royalties and license fees. The Contractor shall defend suits or claims for infringement of copyrights and patent rights and shall hold the Owner and Architect/Engineer harmless from loss on account thereof, but shall not be responsible for such 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 A/E. However, if the Contractor has reason to believe that the required design, process or product is an infringement of a copyright or a patent, the Contractor shall be responsible for such loss unless such information is promptly furnished to the Owner.

### § 3.18 INDEMNIFICATION

To the fullest extent permitted by Laws and Regulations, the Contractor shall indemnify, defend, and hold harmless the Owner, its Architect/Engineer (A/E), consultants, subconsultants and the officers, directors, employees, and agents of each and either of them, against and from all claims and liability arising under, by reason of or incidentally to the contract or any performance of the Work or any performance of the Work by subcontractors, their agents, and their employees, but not from the sole negligence or willful misconduct of the Owner and/or its A/E. Such indemnification by the Contractor and its subcontractors, their agents, and their employees shall include but not be limited to the following:

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- .1 Liability or claims resulting directly or indirectly from the negligence or carelessness in the performance of the Work, or in guarding or maintaining the same, or from any improper materials, implements, or appliances used in its construction, or by or on account of any act or omission;
- .2 Liability or claims arising directly or indirectly from bodily injury, occupational sickness or disease, or death of the Contractor's or subcontractor's own employees engaged in the Work resulting in actions brought by or on behalf of such employees against the Owner and/or the A/E;
- .3 Liability or claims arising directly or indirectly from or based on the violation of any law, ordinance, regulation, order, or decree;
- .4 Liability or claims arising directly or indirectly from the use or manufacture of any copyrighted or non-copyrighted composition, secret process, patented or non-patented invention, computer software, article, or appliance, unless otherwise specifically stipulated in this contract;
- .5 Liability or claims arising directly or indirectly from the breach of any warranties, whether express or implied, made to the Owner, its A/E, its consultants, subconsultants and the officers, directors, employees, and agents, or any other parties;
- .6 Liabilities or claims arising directly or indirectly from willful or criminal misconduct; and,
- .7 Liabilities or claims arising directly or indirectly from any breach of the obligations assumed herein by the Contractor.

§ 3.18.2 The Contractor shall reimburse the Owner for all costs and expenses, (including but not limited to fees and charges of Architect/Engineer, attorneys, and other professionals and court costs including all costs of appeals) incurred by the Owner in enforcing the provisions of this section.

§ 3.18.3 The indemnification obligation under this section shall not be limited in any way by any limitation of the amount or type of damages, compensation, or benefits payable by or for the Contractor or any such subcontractor or other person or organization under workers' compensation acts, disability benefit acts, or other employee benefit acts.

### ARTICLE 4 ADMINISTRATION OF THE CONTRACT

#### § 4.1 OWNER'S REPRESENTATIVE, AND ARCHITECT/ENGINEER

§ 4.1.1 The Owner's Representative will be the Owner's agent to the Contractor with respect to the project during construction and until the issuance of the final Certificate for Payment. The Owner's communications with the Contractor will be through the Owner's Representative, who will have full authority to act on behalf of the Owner with regard to all aspects of the construction of the project.

§ 4.1.2 Nothing contained within the Contract Documents shall create any contractual relationship between the Owner's Representative and the Contractor.

#### § 4.1.3 Architect or Engineer

- .1 For purposes of this contract, the Architect or Engineer (A/E) is the person performing services on behalf of the Owner, and lawfully licensed to practice architecture or engineering, or an entity lawfully practicing architecture or engineering identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number.
- .2 For purposes of the Contract Documents, references to the Architect may include sub consultants of multiple tiers who are lawfully licensed to practice disciplines included in the Work including, but not limited to civil, structural, mechanical, and electrical engineering. Similarly, references to the Engineer may include sub consultants of multiple tiers who are lawfully licensed to practice disciplines included in the Work including, but not limited to architecture, civil, structural, mechanical, and electrical engineering.
- .3 Nothing contained within the Contract Documents shall create any contractual relationship between the A/E and the Contractor.

#### § 4.2 OWNER'S REPRESENTATIVE'S ADMINISTRATION OF THE CONTRACT

§ 4.2.1 The Owner's Representative will provide administration of the Contract as described in the Contract Documents, and will be the Owner's agent (1) during construction, (2) until final payment is due and (3) with the Owner's concurrence, from time to time during the one-year period for correction of Work described in Section 12.2.

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The Owner's Representative will have authority to act on behalf of the Owner only to the extent provided in the Contract Documents, unless otherwise modified in writing in accordance with other provisions of the Contract.

§ 4.2.2 The office of the Owner's Representative will be located at or near the project site for the duration of construction. The Owner's Representative and associated staff will observe the Work (1) to monitor the progress and quality of the Work, (2) to endeavor to guard the Owner against defects and deficiencies in the Work, (3) to determine in general if the Work is being performed in a manner indicating that the Work, when fully completed, will be in accordance with the Contract Documents, and (4) to keep the Owner informed about the progress and quality of the Work. However, the Owner's Representative will not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the Work. The Owner's Representative will neither have control over or charge of, nor be responsible 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, except as provided in Section 3.3.

§ 4.2.3 The Owner's Representative will not be responsible for the Contractor's failure to perform the Work in accordance with the requirements of the Contract Documents. The Owner's Representative will not have control over or charge of and will not be responsible for acts or omissions of the Contractor, Subcontractors of any tier, or their agents or employees, or any other persons or entities performing portions of the Work.

§ 4.2.4 Communications Facilitating Contract Administration. Except as otherwise provided in the Contract Documents or when direct communications have been specially authorized, the Owner, Architect/Engineer, and Contractor shall communicate with each other through the Owner's Representative about matters arising out of, or relating to the Contract. Communications by and with the A/E's consultants shall be through the A/E. Communications by and with subcontractors and material suppliers shall be through the Contractor. Communications by and with separate contractors shall be through the Owner. Important communications shall be confirmed in writing. Other communications shall be similarly confirmed on written request in each case.

§ 4.2.5 Upon presentation of the Contractor's Applications for Payment, the Owner's Representative will review and certify the amounts due the Contractor and will approve the Applications for Payment in such amounts.

§ 4.2.6 The Owner's Representative will have authority to reject Work that does not conform to the Contract Documents. Whenever the Owner's Representative considers it necessary or advisable, the Owner's Representative will have authority to require inspection or testing of the Work in accordance with Sections 13.5.2 and 13.5.3, whether or not such Work is fabricated, installed or completed. However, neither this authority of the Owner's Representative 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 Owner's Representative to the Contractor, Subcontractors, material and equipment suppliers, their agents or employees, or other persons or entities performing portions of the Work.

§ 4.2.7 The Owner's Representative will prepare Change Orders and Construction Change Directives and may authorize minor changes in the Work as provided in Section 7.4.

§ 4.2.8 The Owner's Representative will conduct inspections to determine the date or dates of Substantial Completion and the date of Final Completion, will 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, and will approve the final Application for Payment upon compliance with the requirements of the Contract Documents.

§ 4.2.9 The Owner's Representative will interpret and decide matters concerning performance under and requirements of the Contract Documents on written request of the Owner or Contractor. The Owner's Representative'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 Owner's Representative shall be furnished in compliance with this Section 4.2, then delay shall not be recognized on account of failure by the Owner's Representative to furnish such interpretations until 15 days after written request is made for them.

§ 4.2.10 Interpretations and decisions of the Owner's Representative will be consistent with the intent of and reasonably inferable from the Contract Documents and will be in writing or in the form of drawings. When making



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such interpretations and initial decisions, the Owner's Representative will endeavor to secure faithful performance by both Owner and Contractor.

### § 4.2.11 SERVICES OF THE ARCHITECT OR ENGINEER (A/E)

- .1 The Architect or Engineer (A/E) will provide certain contract administration services as hereinafter described.
- .2 Should errors, omissions, or conflicts in the drawings, specifications, or other contract documents provided by the A/E be discovered, the A/E will prepare such amendments or supplementary documents and provide consultation as may be required.
- .3 The A/E and its sub-consultants will visit the site at intervals appropriate to the stage of construction to familiarize themselves generally with the progress and quality of the Work and to determine in general if the Work is proceeding in accordance with the Contract Documents. Unless otherwise provided in the Owner-A/E Agreement, the A/E and its sub-consultants will not be required to make exhaustive or continuous on-site inspection or observations to check the quality or quantity of the Work, but they shall make as many on-site inspections and observations as may reasonably be required to fulfill their obligations to the Owner. On the basis of such on-site observation, the A/E and its sub-consultants shall endeavor to guard the Owner against defects and deficiencies in the Work of the Contractor.
- .4 The A/E will render written field reports to the Owner in the form required by the Owner relating to the periodic visits and inspections of the Project required by Section 4.2.11.
- .5 The A/E will not be responsible for and will not have control or charge of construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the Work, and the A/E will not be responsible for the Contractor's failure to carry out the Work in accordance with the Contract Documents. The A/E will not be responsible for or have control or charge over the acts or omissions of the Contractor, Subcontractors, or any of their agents or employees, or any other persons performing any of the Work.
- .6 The A/E shall at all times have access to the Work wherever it is in preparation or progress. The Contractor shall provide safe facilities for such access so the A/E may perform its functions under the Contract Documents.
- .7 As required, the A/E will render to the Owner interpretations necessary for the proper execution or progress of the Work, with reasonable promptness and in accordance with any time limit agreed upon.
- .8 All communications, correspondence, submittals, and documents exchanged between the A/E and the Contractor in connection with the Project shall be through or in the manner prescribed by the Owner.
- .9 All interpretations and decisions of the A/E will be consistent with the intent of and reasonably inferable from the Contract Documents.
- .10 The A/E's decision in matters relating to aesthetic effect will be final if consistent with the intent of the Contract Documents and approved by the Owner.
- .11 If the A/E observes any Work that does not conform to the Contract Documents, the A/E shall promptly report in writing this observation to the Owner. The A/E will prepare and submit to the Owner lists of the Contractor's Work that is not in conformance with the Contract Documents.
- .12 The A/E will review and make a recommendation to the Owner of 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 A/E's review will be taken with such reasonable promptness as to cause no delay in the Work or in the activities of the Owner, Contractor, or separate contractors, while allowing sufficient time in the A/E's professional judgment to permit adequate review. Review of such submittals is not conducted for the purpose of determining the accuracy and completeness of other details such as dimensions and quantities, or for substantiating instructions for installation or performance of equipment or systems, all of which remain the responsibility of the Contractor as required by the Contract Documents. The A/E's review of the Contractor's submittals shall not relieve the Contractor of the obligations under Sections 3.3, 3.5 and 3.12. The A/E's review shall not constitute approval of safety precautions or, unless otherwise specifically stated by the A/E, of any construction means, methods, techniques, sequences or procedures. The A/E's recommendation for approval of a specific item shall not indicate recommendation of approval of an assembly of which the item is a component.

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- .13 The Owner will establish procedures to be followed by the A/E for review and processing of all shop drawings, catalog submittals, project reports, test reports, maintenance manuals, and other necessary documentation.
- .14 The A/E may assist the Owner in conducting inspections to determine the dates of Substantial Completion and Final Completion, and the Owner will issue a Certificate of Substantial Completion and a Certificate of Final Completion.
- .15 In case of the termination of the A/E, the Owner may appoint an alternate person who is appropriately licensed to assume all of the services of the A/E thereafter.
- .16 If the Owner and A/E agree, the A/E may provide one or more project representatives to assist in carrying out the A/E's responsibilities at the site. Such responsibilities may include, but are not limited to inspection, testing, and specialized construction observation. The assistant project representative, inspector, or other such assigned personnel shall have no authority to interpret or direct the Work unless authorized in writing by the Owner.

### § 4.3 CLAIMS AND DISPUTES

§ 4.3.1 Definition. A Claim is a demand or assertion by one of the parties seeking, as a matter of right, adjustment or interpretation of Contract terms, payment of money, extension of time or other relief with respect to the terms of the Contract. The term "Claim" also includes all other disputes and matters in question between the Owner and Contractor arising out of or relating to the Contract. All Claims must be initiated by written notice within the time limits provided in Section 4.3.2. The responsibility to substantiate Claims shall rest with the party making the Claim.

§ 4.3.2 Time Limits on Claims. Claims by either party must be initiated within 21 days after occurrence of the event giving rise to such Claim or within 21 days after the claimant first recognizes, or should reasonably have recognized, the condition giving rise to the Claim, whichever is later. Claims must be initiated by written notice to the Owner and the other party.

§ 4.3.3 Continuing Contract Performance. Pending final resolution of a Claim, except as otherwise agreed in writing or as provided in Section 9.7. and Article 14, the Contractor shall proceed diligently with performance of the Contract and the Owner shall continue to make payments in accordance with the Contract Documents.

§ 4.3.4 Claims for Concealed or Unknown Conditions. If conditions are encountered at the site that are (1) subsurface or otherwise concealed physical conditions which differ materially from those indicated in the Contract Documents or (2) unknown physical conditions of an unusual nature, which 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, then notice by the observing party shall be given to the other party promptly before conditions are disturbed and in no event later than the time limits provided in 4.3.2. The Owner will promptly investigate such conditions and, if 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 an equitable adjustment in the contract sum or contract time, or both. If the Owner 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 shall so notify the Contractor in writing, stating the reasons, and the Claim shall be denied.

§ 4.3.5 Claims for Additional Cost. If the Contractor wishes to make Claim for an increase in the contract sum, written notice as provided herein shall be given before proceeding to execute the Work. Prior notice is not required for Claims relating to an emergency endangering life or property arising under Section 10.4.

§ 4.3.6 If the Contractor believes additional cost is involved for reasons including but not limited to (1) a written interpretation from the Owner, (2) an order by the Owner to stop the Work where the Contractor was not at fault, (3) a written order for a minor change in the Work issued by the Owner, (4) failure of payment by the Owner, (5) termination of the Contract by the Owner, (6) Owner's suspension or (7) other reasonable grounds, Claim shall be filed in accordance with this Section .

§ 4.3.7 Claims for Additional Time

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- .1 If the Contractor wishes to make Claim for an increase in the contract time, written notice as provided herein shall be given. The Contractor's Claim shall include an estimate of cost and of probable effect of delay on progress of the Work. In the case of a continuing delay only one Claim is necessary.
- .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 scheduled construction. The Contractor shall, within 10 days of the beginning of any such delay, notify the Owner in writing of the cause of delay and request an extension of contract time. The Owner will ascertain the facts and the extent of the delay and extend the time for completing the Work when, in the Owner's judgment, the findings of fact justify such an extension. Unprecedented, abnormal, or unusually severe weather will be defined as an event, or events, with a greater than 50-year recurrence interval, as determined by the National Weather Service.

**§ 4.3.8 Injury or Damage to Person or Property.** If either party to the Contract 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 such injury or damage, whether or not insured, shall be given to the other party within a reasonable time not exceeding 14 days after discovery or when discovery reasonably should have been made. The notice shall provide sufficient detail to enable the other party to investigate the matter.

**§ 4.3.9** 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 or Contractor, the applicable unit prices shall be equitably adjusted.

**§ 4.3.10 Claims for Consequential Damages.** The Contractor and Owner waive Claims against each other for consequential damages arising out of or relating to this Contract. This mutual waiver includes:

- .1 damages incurred by the Owner for rental expenses, for losses of use, income, profit, financing, business and reputation, and for loss of management or employee productivity or of the services of such persons; and
- .2 damages incurred by the Contractor for principal office expenses including the compensation of personnel stationed there, for losses of financing, business or reputation, attorney's fees and costs, and for loss of profit except anticipated profit arising directly from the Work.

This mutual waiver is applicable, without limitation, to all consequential damages due to either party's termination in accordance with Article 14. Nothing contained in this section shall be deemed to preclude an award of liquidated direct damages, when applicable, in accordance with the requirements of the Contract Documents.

### **§ 4.4 RESOLUTION OF CLAIMS AND DISPUTES**

**§ 4.4.1 Decision of Owner.** All Claims of this Contract shall be promptly brought to the Owner's Representative for analysis and consideration. The Contractor shall strictly follow the process outlined by the Owner for resolving claims and disputes, and shall not initiate or respond to alternative resolution processes, unless agreed to by both the Owner and the Contractor and incorporated into a Change Order. Once the Contractor has delivered a Claim, the Owner shall promptly analyze the Claim, fairly considering all aspects of the Claim in terms of the Contract Documents. The Owner shall then render an opinion in writing. The Owner will not decide disputes between the Contractor and persons or entities other than the Owner.

**§ 4.4.2** The Owner's Representative will review Claims and within fifteen days of the receipt of the Claim and take one or more of the following actions: (1) request additional supporting data from the Contractor or a response with supporting data from the other party, (2) reject the Claim in whole or in part, (3) approve the Claim, or (4) suggest a compromise.

**§ 4.4.3** In evaluating Claims, the Owner may, but shall not be obligated to, consult with or seek information from either party, from the Architect/Engineer or from persons with special knowledge or expertise who may assist the Owner in rendering a decision. The Owner may authorize retention of such persons at the Owner's expense.

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§ 4.4.4 If the Owner requests a party to provide a response to a Claim or to furnish additional supporting data, such party shall respond, within fifteen days after receipt of such request, and shall either provide a response on the requested supporting data, advise the Owner when the response or supporting data will be furnished or advise the Owner that no supporting data will be furnished. Upon receipt of the response or supporting data, if any, the Owner will either reject or approve the Claim in whole or in part.

§ 4.4.5 The Owner will approve or reject Claims by written decision that shall state the reasons therefor and which shall notify the parties of any change in the Contract Sum or Contract Time or both. The approval or rejection of a Claim by the Owner shall be final and binding on the parties.

§ 4.4.6 Upon receipt of a Claim against the Contractor or at any time thereafter, 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.

### **§ 4.5 DISPUTE RESOLUTION BOARD**

§ 4.5.1 If, and as provided in Supplementary General Conditions, this contract shall be subject to Dispute Resolution Board procedures.

## **ARTICLE 5 SUBCONTRACTORS**

### **§ 5.1 DEFINITIONS**

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

### **§ 5.2 AWARD OF SUBCONTRACTS AND OTHER CONTRACTS FOR PORTIONS OF THE WORK**

§ 5.2.1 As stated in the Contract Documents or the bidding requirements, the Contractor, as soon as practicable after award of the Contract, shall furnish in writing to the Owner the names of persons or entities (including those who are to furnish materials or equipment fabricated to a special design) proposed for each principal portion of the Work. The Owner will promptly reply to the Contractor in writing stating whether or not the Owner, after due investigation, has reasonable objection to any such proposed person or entity. Failure of the Owner to reply promptly shall constitute notice of no reasonable objection. Periodic submittals of the list of Subcontractors to the Owner are required. A final list of subcontractors and subcontract amounts will be required prior to Final Payment.

§ 5.2.2 The Contractor shall not contract with a proposed person or entity to whom the Owner 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 has reasonable objection to a person or entity proposed by the Contractor, the Contractor shall propose another to whom the Owner has no reasonable objection. If the proposed but rejected Subcontractor was reasonably capable of performing the Work, the contract sum and contract time shall be increased or decreased by the difference, if any, occasioned by such change, and an appropriate Change Order shall be issued before commencement of the substitute subcontractor's Work. However, no increase in the contract sum or contract time shall be allowed for such change unless the Contractor has acted promptly and responsively in submitting names as required.

§ 5.2.4 The Contractor shall not change a subcontractor, person or entity previously selected if the Owner makes reasonable objection to such substitute.

### **§ 5.3 SUBCONTRACTUAL RELATIONS**

§ 5.3.1 By appropriate agreement, written where legally required for validity, the Contractor shall require each subcontractor, to the extent of the Work to be performed by the subcontractor, to be bound to the Contractor by terms of the Contract Documents, and to assume toward the Contractor all the obligations and responsibilities, including the responsibility for safety of the subcontractor's Work, that the Contractor, by these documents, assumes toward the Owner and Architect/Engineer. Each subcontract agreement shall preserve and protect the rights of the Owner and

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Architect/Engineer under the Contract Documents with respect to the Work to be performed by the subcontractor so that subcontracting thereof will not prejudice such rights, and shall allow to the subcontractor, unless specifically provided otherwise in the subcontract agreement, the benefit of all rights, remedies and redress against the Contractor that the Contractor, by the Contract Documents, has against the Owner. Where appropriate, the Contractor shall require each subcontractor to enter into similar agreements with subcontractors of all tiers. The Contractor shall make available to each proposed subcontractor, prior to the execution of the subcontract agreement, copies of the Contract Documents to which the subcontractor will be bound, and, upon written request of the subcontractor, identify to the subcontractor terms and conditions of the proposed subcontract agreement that may be at variance with the Contract Documents. Subcontractors will similarly make copies of applicable portions of such documents available to their respective proposed subcontractors at all tiers.

### § 5.4 CONTINGENT ASSIGNMENT OF SUBCONTRACTS

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

- .1 assignment is effective only after termination of the Contract by the Owner for cause pursuant to Section 14.2 and only for those subcontract agreements which 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.

§ 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.

## 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 Owner reserves the right to perform construction or operations related to the project with the Owner's own forces, and to award separate contracts in connection with other portions of the project or other construction or operations on the site under Conditions of the Contract identical or substantially similar to these including those portions related to insurance and waiver of subrogation.

§ 6.1.2 The Owner reserves the right to authorize the construction, reconstruction, or maintenance of any public or private utility service, FAA facility, or a utility service of another government agency at any time during the progress of the Work.

Should the Owner of public or private utility service, FAA, or a utility service of another government agency be authorized to construct, reconstruct, or maintain such utility service or facility during the progress of the Work, the Contractor shall cooperate with such Owners by arranging and performing the Work in this contract to facilitate such construction, reconstruction or maintenance by others whether or not such Work by others is listed above. When ordered as extra Work by the Owner, the Contractor shall make all necessary repairs to the Work that are due to such authorized Work by others, unless otherwise provided for in the contract. It is understood and agreed that the Contractor shall not be entitled to make any claim for damages due to such authorized Work by others or for any delay to the Work resulting from such authorized Work.

§ 6.1.3 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.

§ 6.1.4 The Owner shall provide for coordination of the activities of the Owner's own forces and of each separate contractor with the Work of the Contractor, who shall cooperate with them. The Contractor shall participate with other separate contractors and the Owner in reviewing their construction schedules when directed to do so. The Contractor shall make any revisions to the construction schedule deemed necessary after a joint review and mutual agreement. The construction schedules shall then constitute the schedules to be used by the Contractor, separate contractors and the Owner until subsequently revised.

§ 6.1.5 Unless otherwise provided in the Contract Documents, when the Owner performs construction or operations related to the project with the Owner's own forces, the Owner shall be deemed to be subject to the same obligations

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and to have the same rights that apply to the Contractor under the Conditions of the Contract, including, without excluding others, those stated in Article 3, this Article 6 and Articles 10, 11 and 12.

### § 6.2 MUTUAL RESPONSIBILITY

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

§ 6.2.2 If part of the Contractor's Work depends for proper execution or results upon construction or operations by the Owner or a separate contractor, the Contractor shall, prior to proceeding with that portion of the Work, promptly report to the Owner apparent discrepancies or defects in such other construction that would render it unsuitable for such proper execution and results. Failure of the Contractor so to report 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, except as to defects not then reasonably discoverable.

§ 6.2.3 The Owner shall be reimbursed by the Contractor for costs incurred by the Owner that are payable to a separate contractor because of delays, improperly timed activities or defective construction of the Contractor. The Owner shall be responsible to the Contractor for costs incurred by the Contractor because of delays, improperly timed activities, damage to the Work or defective construction of a separate contractor.

§ 6.2.4 The Contractor shall promptly remedy damage wrongfully caused by the Contractor to completed or partially completed construction or to property of the Owner or separate contractors as provided in Section 10.2.

§ 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

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

## ARTICLE 7 CHANGES IN THE WORK

### § 7.1 GENERAL

§ 7.1.1 Without invalidating the Contract and without notice to any surety, the Owner may at any time or from time to time, order additions, deletions, or revisions in the Work; these will be authorized by a written 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 the Contractor; a Construction Change Directive may be issued by the Owner 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 Owner.

§ 7.1.3 Changes in the Work shall be performed under applicable provisions of the Contract Documents, and the Contractor shall proceed promptly, unless otherwise provided in the Change Order, Construction Change Directive or 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 Owner and signed by the Owner and Contractor, stating their agreement upon all of the following:

- .1 change in the Work;
- .2 the amount of the adjustment in the contract sum including unit price quantities; and
- .3 the extent of the adjustment, if any, in the contract time.

§ 7.2.2 Methods used in determining adjustments to the contract sum may include those listed in Section 7.3.

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### § 7.3 CONSTRUCTION CHANGE DIRECTIVES

§ 7.3.1 A Construction Change Directive is a written order prepared by the Owner 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 application of adjusted 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 7.3.6.

§ 7.3.4 Upon receipt of a Construction Change Directive, the Contractor shall promptly proceed with the change in the Work involved and advise the Owner of the Contractor's agreement or disagreement with the method, if any, provided in the Construction Change Directive for determining the proposed adjustment in the contract sum or contract time.

§ 7.3.5 A Construction Change Directive signed by the Contractor indicates the agreement of the Contractor 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.

§ 7.3.6 If prior to the commencement of the Work the Contractor has not provided a lump sum price, or the Contractor and the Owner have not agreed on a lump sum price as described in Section 7.3.3, the price shall be established in one of the following ways, as determined by the Owner.

- .1 on a lump sum basis following completion of the Work. The lump sum price shall be properly itemized in accordance with Sections 7.3.7 and 7.3.8 and supported by sufficient data to permit evaluation;
- .2 on a time and material basis, with or without a maximum not-to-exceed price, at the discretion of the Owner. Costs will be accumulated on a time and material basis as described in Sections 7.3.7 and 7.3.9 and presented daily (the day after the Work is performed) for approval by the Owner on the forms provided by the Owner. The daily report will be signed by the Contractor and the Owner.

§ 7.3.7 Cost substantiation for Work proceeding on a lump sum or time and material basis. In accordance with Section 7.3.6, the Contractor shall provide a detailed breakdown of the costs as described in this section and submit the costs and substantiating data in a proposal to the Owner:

- .1 Excluded Costs. The following shall not be considered by the Owner for compensation to the Contractor:
  - A. Payroll costs and other compensation of Contractor's officers, executives, principals (of partnership and sole proprietorships), general managers, architects, estimators, attorneys, auditors, accountants, purchasing and contracting agents, expenditures, timekeepers, clerks and other personnel employed by Contractor whether at the site or in Contractor's principal or a branch office for general administration of the Work, or not specifically covered by this section, all of which are to be considered administrative costs covered by the Contractor's fee.
  - B. Expenses of Contractor's principal and branch offices other than Contractor's office at the site.
  - C. Any part of Contractor's capital expenses, including interest on Contractor's capital employed for the Work and charges against Contractor for delinquent payments.

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- D. Cost of premiums for all Bonds and for all insurance whether or not Contractor is required by the Contract Documents to purchase and maintain the same (except for the cost of premiums covered this section).
  - E. Costs due to the negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, including but not limited to, the correction of Defective Work, disposal of materials or equipment wrongly supplied and making good any damage to property.
  - F. Other overhead or general expense costs of any kind and the cost of any item not specifically and expressly included in this section.
- .2 Direct costs. These shall be limited to 1) cost of materials, as described below under “Materials,” 2) cost of labor as described below under “Labor Rates,” 3) rental rate including fuel and maintenance for any power tools valued at over \$3,000 and equipment as described below under “Equipment Rates,” and 4) bond premiums and additional cost of Builder’s Risk Insurance, at rates equal to the amount billed for the base contract or the actual rate as supported by an invoice.
- .3 Equipment Rates. The Contractor will be paid for the use of equipment at the rental rates listed for such equipment in the “Rental Rate Blue Book”. Such rental rate will be used to compute payments for equipment whether the equipment is under the Contractor’s control through direct ownership, leasing, renting, or another method of acquisition. The rental rate to be applied for use of each item of equipment shall be the rate resulting in the least total cost to the Owner for the total period of use. If it is deemed necessary by the Contractor to use equipment not listed in the “Rental Rate Blue Book”, an equitable rental rate for the equipment will be established by the Owner. The Contractor may furnish cost data which might assist the Owner in the establishment of the rental rate.
- A. All equipment shall, in the opinion of the Owner, be in good working condition and suitable for the purpose for which the equipment is to be used.
  - B. Before construction equipment is used on the extra Work, the Contractor shall plainly stencil or stamp an identifying number thereon at a conspicuous location, and shall furnish to the Owner a description of the equipment and its identifying number.
  - C. Unless otherwise specified, manufacturer’s ratings and manufacturer approved modifications shall be used to classify equipment for the determination of applicable rental rates. Equipment that has no direct power unit shall be powered by a unit of at least the minimum rating recommended by the manufacturer.
  - D. Individual pieces of equipment or tools having a replacement value of \$200 or less, whether or not consumed by use, shall be considered to be small tools and no payment will be made therefor.
  - E. Rental time will not be allowed while equipment is inoperative due to breakdowns.
  - F. Unless otherwise agreed to in writing, the Contractor will be paid for the use of equipment at the rental rate listed for such equipment specified in the current edition of “Rental Rate Blue Book” available at [www3.equipmentwatch.com](http://www3.equipmentwatch.com) or contact Equipment Watch at (800) 669-3282. Rental rates for equipment not covered under this reference shall be comparable to the lowest, commercially available rental rate for similar equipment in the area of the Project
- .4 Equipment on the Project site. The rental time to be paid for equipment on the Work site shall be the time the equipment is in productive operation on the extra Work being performed and, in addition, shall include the time required to move the equipment to the location of the extra Work and return it to the original location or to another location requiring no more time than that required to return it to its original location; except, that moving time will not be paid if the equipment is used on other than the extra Work, even though located at the site of the extra Work. Loading and transporting costs will be allowed, in lieu of moving time, when the equipment is moved by means other than its own power, except that no payment will be made for loading and transporting costs when the equipment is used at the site of the extra Work on other than the extra Work. The following shall be used in computing the rental time of equipment on the Work site.
- A. When hourly rates are listed, any part of an hour less than 30 minutes of operation shall be considered to be 1/2-hour of operation, and any part of an hour in excess of 30 minutes will be considered one hour of operation.
  - B. When daily rates are listed, any part of a day less than 4 hours operation shall be considered to be 1/2-day of operation.



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- C. When Owner-operated equipment is used to perform extra Work to be paid for on a time and materials basis, the Contractor will be paid for the equipment and operator, set forth as follows:
- i. Payment for the equipment will be made in accordance with the provisions in Section 7.3.
  - ii. Payment for the cost of labor and subsistence or travel allowance will be made at the rates paid by the Contractor to other workers operating similar equipment already on the Work site, or in the absence of such labor, established by collective bargaining agreements for the type of worker and location of the extra Work, whether or not the operator is actually covered by such an agreement. A labor surcharge will be added to the cost of labor described herein in accordance with the provisions of Section 7.3.7.5, herein, which surcharge shall constitute full compensation for payments imposed by state and federal laws and all other payments made to or on behalf of workers other than actual wages.
  - iii. To the direct cost of equipment rental and labor, computed as provided herein, will be added the allowances for equipment rental and labor as provided in Sections 7.3.8 and 7.3.9.
- .5 Labor Rates. The costs of labor will be the actual cost for wages prevailing for each craft or type of workers performing the extra Work at the time the extra Work is done, plus employer payments of payroll taxes, workers' compensation insurance, liability insurance, health and welfare, pension, vacation, apprenticeship funds, and other direct costs resulting from Federal, State or local laws, as well as assessments or benefits required by lawful collective bargaining agreements. Labor costs for equipment operators and helpers shall be paid only when such costs are not included in the invoice for equipment rental. The labor costs for forepersons shall be proportioned to all of their assigned Work and only that applicable to extra Work shall be paid. Non-direct labor costs including superintendence shall be considered part of the mark-up set out in Sections 7.3.8 and 7.3.9.
- .6 Materials. The cost of materials reported shall be at invoice or lowest current price at which materials are locally available and delivered to the job in the quantities involved, plus the cost of freight, delivery and storage, subject to the following:
- A. Trade discounts available to the purchaser shall be credited to the Owner notwithstanding the fact that such discounts may not have been taken by the Contractor.
  - B. For materials secured by other than a direct purchase and direct billing to the purchaser, the cost shall be deemed to be the price paid to the actual supplier as determined by the Owner. Mark-up except for actual costs incurred in the handling of such materials will not be allowed.
  - C. Payment for materials from sources owned wholly or in part by the purchaser shall not exceed the price paid by the purchaser for similar materials from said sources on extra Work items or the current wholesale price for such materials delivered to the Work site, whichever price is lower.
  - D. If in the opinion of the Owner the cost of material is excessive, or the Contractor does not furnish satisfactory evidence of the cost of such material, then the cost shall be deemed to be the lowest current wholesale price for the quantity concerned delivered to the Work site less trade discount. The Owner reserves the right to furnish materials for the extra Work and no claim shall be allowed by the Contractor for costs and profit on such materials.
- .7 Specialty Work. Specialty Work is defined as that Work characterized by extraordinary complexity, sophistication, or innovation or a combination of the foregoing attributes which are unique to the construction industry. The following shall apply in making estimates for payment for specialty Work:
- A. Any bid item of Work to be classified as Specialty Work shall be listed as such in the Supplementary General Conditions. Specialty Work shall be performed by an entity especially skilled in the work to be performed. After validation of invoices and determination of market values by the Owner, invoices for Specialty Work based upon the current fair market value thereof may be accepted without complete itemization of labor, material, and equipment rental costs.
  - B. When the Contractor is required to perform Work necessitating special fabrication or machining process in a fabrication or a machine shop facility away from the job site, the charges for that portion of the Work performed at the off-site facility may, by agreement,

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be accepted as Specialty Work and accordingly, the invoices for the Work may be accepted without detailed itemization.

- C. All invoices for specialty Work will be adjusted by deducting all trade discounts offered or available, whether the discounts were taken or not. In lieu of the allowances for overhead and profit specified in Sections 7.3.8 and 7.3.9, herein, an allowance of 5 percent will be added to invoices for specialty Work.
- .8 Sureties. All Work performed hereunder shall be subject to all of the provisions of the Contract Documents and the Contractor's sureties shall be bound with reference thereto as under the original Agreement. Copies of all amendments to surety Bonds or supplemental surety Bonds shall be submitted to the Owner for review prior to the performance of any Work hereunder.

**§ 7.3.8** Contractor's Fee for Work proceeding on a lump sum basis. The Contractor shall apply a combined percentage rate to the direct costs to compensate the Contractor for additional overhead and profit associated with a Change in the Work. The combined rate to the Owner of any change shall not exceed the rates set forth in the following schedule:

- .1 For the Contractor, for Work performed by the Contractor's own forces, up to fifteen percent (15%) of direct costs.
- .2 For each subcontractor, for Work performed by the subcontractor's forces, up to fifteen percent (15%) of direct costs.
- .3 For the Contractor, for work performed by subcontractors, up to ten percent (10%) of the Subcontractors direct costs.
- .4 For the subcontractor, for Work performed by subcontractors of all tiers, up to ten percent (10%) of the sub-subcontractor's direct costs.
- .5 The total Contractor and all subcontractors' overhead and profit allowance shall not exceed twenty-five percent (25%) of direct costs.
- .6 To the sum of the costs and Contractor fees provided for in this section, one percent (1%) shall be added as compensation for bonds.

**§ 7.3.9** Contractor's Fee for Work proceeding on a time and materials basis. The Contractor shall apply a combined percentage rate to the direct costs to compensate the Contractor for additional overhead and profit associated with a Change in the Work. The combined rate to the Owner of any change shall not exceed the rates set forth in the following schedule:

- .1 For the Contractor, for Work performed by the Contractor's own forces, up to ten percent (10%) of direct costs.
- .2 For each subcontractor, for Work performed by the subcontractor's forces, up to ten percent (10%) of direct costs.
- .3 For the Contractor, for work performed by subcontractors, up to five percent (5%) of the subcontractors direct costs.
- .4 For the subcontractor, for Work performed by subcontractors of all tiers, up to five percent (5%) of the sub-subcontractor's direct costs.
- .5 The total Contractor and all subcontractors' overhead and profit allowance shall not exceed twenty percent (20%) of direct costs.
- .6 To the sum of the costs and Contractor fees provided for in this section, one percent (1%) shall be added as compensation for bonds.

**§ 7.3.10** Adjustment of Quantities. The Owner is authorized to make such adjustments in the Work as may increase or decrease the originally awarded contract quantities of unit price components, provided that the aggregate of such adjustments does not change the total contract cost or the total cost of any major contract item by more than 25% (total cost being based on the unit prices and estimated quantities in the awarded contract). Alterations that do not exceed the 25% limitation shall not invalidate the contract nor release the surety, and the Contractor agrees to accept payment for such alterations in accordance with the unit price offered in the bid.

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

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§ 7.3.12 Pending final determination of the total cost of a Construction Change Directive to the Owner, amounts not in dispute for such changes in the Work shall be included in applications for payment accompanied by a Change Order indicating the parties' agreement with part or all of such costs. For any portion of such cost that remains in dispute, the Owner will make an interim determination for purposes of monthly approval of payment for those costs. That 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 4.

§ 7.3.13 When the Owner and Contractor agree with the adjustments in the contract sum and contract time, or otherwise reach agreement upon the adjustments, such agreement shall be effective immediately and shall be recorded by preparation and execution of an appropriate Change Order.

### § 7.4 MINOR CHANGES IN THE WORK

§ 7.4.1 The Owner may order minor changes in the Work not involving adjustment in the contract sum or extension of the contract time and not inconsistent with the intent of the Contract Documents. Such changes shall be effected by written order and shall be binding on the Owner and Contractor. The Contractor shall carry out such written orders promptly.

## ARTICLE 8 TIME

### § 8.1 DEFINITIONS

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

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

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

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

§ 8.1.5 The term non-working day as may be used in the Contract Documents shall mean Sunday, a recognized holiday, a day on which the Contractor is specifically required to suspend construction operations or a day on which a suspension order is in effect. The legal holidays of the City & Borough of Juneau occur on:

- .1 New Year's Day - January 1
- .2 Martin Luther King's Birthday - Third Monday in January
- .3 President's Day - Third Monday in February
- .4 Seward's Day - Last Monday in March
- .5 Memorial Day - Last Monday in May
- .6 Independence Day - July 4
- .7 Labor Day - First Monday in September
- .8 Alaska Day - October 18
- .9 Veteran's Day - November 11
- .10 Thanksgiving Day - Fourth Thursday and the following Friday in November
- .11 Christmas Day - December 25

If any holiday listed above falls on a Saturday, Saturday and the preceding Friday are both legal holidays. If the holiday should fall on a Sunday, Sunday and the following Monday are both legal holidays.

### § 8.2 PROGRESS AND COMPLETION

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

§ 8.2.2 The Contractor shall not knowingly, except by agreement or instruction of the Owner in writing, prematurely commence operations on the site or elsewhere prior to the effective date of insurance required by Article 11 to be furnished by the Contractor and Owner. The date of commencement of the Work shall not be changed by the effective date of such insurance. Unless the date of commencement is established by the Contract Documents or a notice to

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proceed given by the Owner, the Contractor shall notify the Owner in writing not less than five days or other agreed period before commencing the Work to permit the timely filing of mortgages, mechanic's liens and other security interests.

§ 8.2.3 The Contractor shall proceed expeditiously with adequate forces and shall achieve Substantial Completion within the 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 an act or neglect of the Owner or Architect/Engineer, or of an employee of either, or of a separate contractor employed by the Owner, or by changes ordered in the Work, or by labor disputes, fire, epidemics, quarantine restrictions, unusually severe weather, unusual delay in deliveries, unavoidable casualties or other causes beyond the Contractor's control, or by delay authorized by the Owner dispute resolution, or 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 Owner shall not be required to pay additional compensation to the Contractor for such unforeseeable causes that are beyond the Contractor's control, or for possible impacts to the Contractor for responding to such unforeseeable causes.

§ 8.3.2 No additional Contract time or additional compensation will be allowed due to delays caused by or suspensions ordered due to failure to correct unsafe conditions for the workers or the public; adverse weather that is not unusually severe; failure to carry out Contract provisions; failure to carry out orders given by the Owner's Representative; or failure to timely obtain materials, equipment, or services. The Contractor shall notify the Owner's Representative as soon as the Contractor becomes aware of any act or occurrence that may form the basis of a request for a time extension under this section. The Contractor shall submit a request for a time extension within 10 days of the act or occurrence, and if an agreement is not reached, the Contractor may submit a Claim.

§ 8.3.3 Claims relating to time shall be made in accordance with applicable provisions of Section 4.3.

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

## ARTICLE 9 PAYMENTS AND COMPLETION

### § 9.1 CONTRACT SUM

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

### § 9.2 BASIS OF PAYMENT

§ 9.2.1 Prior to the Preconstruction Conference, as required by the Contract Documents, the Contractor shall submit to the Owner a schedule of values allocated to various portions of the Work, prepared in such form and supported by such data to substantiate its accuracy as the Owner may require, and in accordance with other provisions of the Contract Documents. This schedule, unless objected to by the Owner, shall be used as a basis for reviewing the Contractor's Applications for Payment.

- .1 Based upon the contract lump sum price for "Mobilization" partial payments will be allowed as follows:  
(a) with first pay request, 25%; (b) when 25% or more of the original contract is earned, an additional 25%; (c) when 50% or more of the original contract is earned, an additional 40%; (d) after Final Inspection, staging area clean-up and delivery of all Project Closeout materials, the final 10%.

§ 9.2.2 For Unit Price contracts, all work completed under the contract will be measured by the Owner using United States Customary Units of Measurement or the International System of Units. The method of measurement and computations to be used in determination of quantities of material furnished and of work performed under the contract will be those methods generally recognized as conforming to good engineering practice.

- .1 Unless otherwise specified, longitudinal measurements for area computations will be made horizontally, and no deductions will be made for individual fixtures (or leave-outs) having an area of 9 square feet or less. Unless otherwise specified, transverse measurements for area computations will be the neat dimensions shown on the plans or ordered in writing by the Owner.

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- .2 Structures will be measured according to neat lines shown on the plans or as altered to fit field conditions.
- .3 Unless otherwise specified, all contract items which are measured by the linear foot such as electrical ducts, conduits, pipe culverts, underdrains, and similar items shall be measured parallel to the base or foundation upon which such items are placed.
- .4 In computing volumes of excavation the average end area method or other acceptable methods will be used.
- .5 The thickness of plates and galvanized sheet used in the manufacture of corrugated metal pipe, metal plate pipe culverts and arches, and metal cribbing will be specified and measured in decimal fraction of inch.
- .6 The term “ton” will mean the short ton consisting of 2,000 lb avoirdupois. All materials that are measured or proportioned by weights shall be weighed on accurate, approved scales by competent, qualified personnel at locations designed by the Owner. Trucks used to haul material being paid for by weight shall be weighed empty daily at such times as the Owner directs.
- .7 Materials to be measured by volume in the hauling vehicle shall be hauled in approved vehicles and measured therein at the point of delivery. Vehicles for this purpose may be of any size or type acceptable for the materials hauled, provided that the body is of such shape that the actual contents may be readily and accurately determined. All vehicles shall be loaded to at least their water level capacity, and all loads shall be leveled when the vehicles arrive at the point of delivery.
- .8 When requested by the Contractor and approved by the Owner in writing, material specified to be measured by the cubic yard may be weighed, and such weights will be converted to cubic yards for payment purposes. Factors for conversion from weight measurement to volume measurement will be determined by the Owner and shall be agreed to by the Contractor before such method of measurement of pay quantities is used.
- .9 Bituminous materials will be measured by the gallon or ton. When measured by volume, such volumes will be measured at 60°F or will be corrected to the volume at 60°F using ASTM D1250 for asphalts or ASTM D633 for tars.
- .10 When bituminous materials are shipped by truck or transport, net certified weights by volume, subject to correction for loss or foaming, may be used for computing quantities.
- .11 Cement will be measured by the ton or hundredweight.
- .12 Timber will be measured by the thousand feet board measure (MFBM) actually incorporated in the structure. Measurement will be based on nominal widths and thicknesses and the extreme length of each piece.
- .13 The term “lump sum” when used as an item of payment will mean complete payment for the Work described in the contract. When a complete structure or structural unit (in effect, “lump sum” Work) is specified as the unit of measurement, the unit will be construed to include all necessary fittings and accessories.
- .14 Rental of equipment will be measured by time in hours of actual working time and necessary traveling time of the equipment within the limits of the Work.
- .15 When standard manufactured items are specified such as fence, wire, plates, rolled shapes, pipe conduit, etc., and these items are identified by gauge, unit weight, section dimensions, etc., such identification will be considered to be nominal weights or dimensions. Unless more stringently controlled by tolerances in cited specifications, manufacturing tolerances established by the industries involved will be accepted.
- .16 Scales for weighing materials which are required to be proportioned or measured and paid for by weight shall be furnished, erected, and maintained by the Contractor, or be certified permanently installed commercial scales. Scales shall be accurate within 1/2% of the correct weight throughout the range of use. The Contractor shall have the scales checked under the observation of the inspector before beginning Work and at such other times as requested by the Owner. The intervals shall be uniform in spacing throughout the graduated or marked length of the beam or dial and shall not exceed one-tenth of 1% of the nominal rated capacity of the scale, but not less than 1 pound. The use of spring balances will not be permitted. Scales must be tested for accuracy and serviced before use at a new site. All costs in connection with furnishing, installing, certifying, testing, and maintaining scales; for furnishing check weights and scale house; and for all other items specified in this subsection, for the weighing of materials for proportioning or payment, shall be included in the unit contract prices for the various items of the project.

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§ 9.2.3 When the estimated quantities for a specific portion of the Work are designated as the pay quantities in the contract, they shall be the final quantities for which payment for such specific portion of the Work will be made, unless the dimensions of said portions of the work shown on the plans are revised by the Owner. If revised dimensions result in an increase or decrease in the quantities of such Work, the final quantities for payment will be revised in the amount represented by the authorized changes in the dimensions.

### § 9.3 APPLICATIONS FOR PAYMENT

§ 9.3.1 On a monthly basis, the Contractor shall submit to the Owner an itemized Application for Payment for operations completed in accordance with the schedule of values. Such application shall be supported by such data substantiating the Contractor's right to payment as the Owner may require, such as copies of requisitions from Subcontractors and material suppliers, and reflecting retainage if provided for in the Contract Documents.

- .1 As provided in Section 7.3.12, such applications may include requests for payment on account of changes in the Work which have been properly authorized by Construction Change Directives, or by interim determinations of the Owner, but not yet included in Change Orders.
- .2 Such applications may not include requests for payment for portions of the Work for which the Contractor does not intend to pay to a Subcontractor or material supplier, unless such Work has been performed by others whom the Contractor intends to pay.
- .3 The Contractor may be required, through other provisions of the Contract Documents, to submit additional reports or documents with the application.

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

§ 9.3.3 The Contractor warrants that title to all Work covered by an Application for Payment will pass to the Owner no later than the time of payment. The Contractor further warrants that upon submittal of an Application for Payment all Work for which Certificates for Payment have been previously issued and payments received from the Owner shall, to the best of the Contractor's knowledge, information and belief, be free and clear of liens, claims, security interests or encumbrances in favor of the Contractor, Subcontractors, material suppliers, or other persons or entities making a claim by reason of having provided labor, materials and equipment relating to the Work.

### § 9.4 APPROVAL OF APPLICATIONS FOR PAYMENT

§ 9.4.1 The Owner will, within seven days after receipt of an acceptable Application for Payment from the Contractor, either issue approval of such amount as properly due, or notify the Contractor in writing of the reasons for withholding approval in whole or in part as provided in Section 9.5.

§ 9.4.2 The approval of an Application for Payment will constitute a representation by the Owner, based on the Owner's evaluation of the Work and the data comprising the Application for Payment, that the Work has progressed to the point indicated and that, to the best of the Owner's knowledge, information and belief, the quality of the Work is in accordance with the Contract Documents. 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 Owner. The approval of an Application for Payment will further constitute a representation that the Contractor is entitled to payment in the amount certified. However, the approval of an Application for Payment will not be a representation that the Owner 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 material suppliers and other data requested by the Owner to substantiate the Contractor's right to payment, or (4) made examination to ascertain how or for what purpose the Contractor has used money previously paid on account of the Contract Sum.

§ 9.4.3 The Owner may refuse to make payment of the full amount because claims have been made against the Owner or the Using Agency on account of the Contractor's performance of the Work or Liens have been filed in connection

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with the Work or there are other items entitling the Owner to a credit against the amount recommended, but the Owner or the Using Agency, acting through the Owner's Representative, must give the Contractor written notice within 7 days stating the reasons for such action.

### § 9.5 DECISIONS TO WITHHOLD APPROVAL OF APPLICATIONS FOR PAYMENT

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

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

§ 9.5.2 When the above reasons for withholding approval are removed, approval will be made for amounts previously withheld.

### § 9.6 PROGRESS PAYMENTS

§ 9.6.1 After the Owner has approved an application for payment, the Owner shall make payment in the manner and within the time provided in the Contract Documents.

§ 9.6.2 The Contractor shall promptly pay each subcontractor, upon receipt of payment from the Owner, out of the amount paid to the Contractor on account of such subcontractor's portion of the Work, the amount to which said subcontractor is entitled, reflecting percentages actually retained from payments to the Contractor on account of such subcontractor's portion of the Work. The Contractor shall, by appropriate agreement with each subcontractor, require each subcontractor to make payments to subcontractors at all tiers in a similar manner.

§ 9.6.3 The Owner 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 Owner on account of portions of the Work done by such subcontractor.

§ 9.6.4 The Owner shall not have an obligation to pay or to see to the payment of money to a subcontractor except as may otherwise be required by law.

§ 9.6.5 Payment to material 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 Approval of an application for payment, a progress payment, or partial or entire use or occupancy of the Project by the Owner shall not constitute acceptance of Work not in accordance with the Contract Documents.

§ 9.6.7 Unless the Contractor provides the Owner with a payment bond in the full penal sum of the contract sum, payments received by the Contractor for Work properly performed by subcontractors and suppliers shall be held by the Contractor for those subcontractors or suppliers who performed Work or furnished materials, or both, under contract with the Contractor for which payment was made by the Owner. Nothing contained herein shall require money to be placed in a separate account and not commingled with money of the Contractor, shall create any fiduciary liability

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or tort liability on the part of the Contractor for breach of trust or shall entitle any person or entity to an award of punitive damages against the Contractor for breach of the requirements of this provision.

### § 9.7 FAILURE OF PAYMENT

§ 9.7.1 If the Owner does not approve an application for payment or notify the Contractor that such approval will be withheld, through no fault of the Contractor, within seven days after receipt of the Contractor's application for payment, or if the Owner does not pay the Contractor within thirty days after the date established in the Contract Documents the amount approved, then the Contractor may, upon seven additional days' written notice to the Owner, 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 shut-down, delay and start-up, plus interest as provided for in the Contract Documents.

### § 9.8 SUBSTANTIAL COMPLETION

§ 9.8.1 Substantial Completion is the stage in the progress of the Work when the Work or designated portion thereof is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use and an official Certificate of Occupancy has been issued by the authority having jurisdiction.

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

§ 9.8.3 Upon receipt of the Contractor's list, the Owner will make an inspection to determine whether the Work or designated portion thereof is substantially complete. The Contractor shall allow a minimum of two working days for this inspection. If the Owner's inspection discloses any item, whether or not included on the Contractor's list that 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 Owner. In such case, the Contractor shall then submit a request for another inspection by the Owner to determine Substantial Completion. In the event that a third or subsequent inspection is required, the Owner reserves the right to charge the Contractor for the cost of such inspections.

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

§ 9.8.5 The Certificate of Substantial Completion shall be submitted to the Owner and Contractor for their written acceptance of responsibilities assigned to them in such Certificate. Upon such acceptance and consent of surety, if any, the Owner shall make payment of retainage applying to such Work or designated portion thereof. Such payment shall be adjusted for Work that is incomplete or not in accordance with the requirements of the Contract Documents.

### § 9.9 PARTIAL OCCUPANCY OR USE

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



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**§ 9.9.2** Immediately prior to such partial occupancy or use, the Owner and Contractor 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. No portion of the Work may be opened by the Contractor for public use until ordered by the Owner in writing. Should it become necessary to open a portion of the Work to public traffic on a temporary or intermittent basis, such openings shall be made when, in the opinion of the Owner, such portion of the Work is in an acceptable condition to support the intended traffic or activity. Temporary or intermittent openings for airfield traffic (aircraft and vehicles) are considered to be inherent in the work and shall not constitute either acceptance of the portion of the Work so opened or a waiver of any provision of the contract. Any damage to the portion of the Work so opened that is not attributable to traffic or activity that is permitted by the Owner shall be repaired by the Contractor at its own expense.

The Contractor shall make its own estimate of the inherent difficulties involved in completing the Work under the conditions herein described and shall not claim any added compensation by reason of delay or increased cost due to opening a portion of the contract Work.

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

### **§ 9.10 FINAL COMPLETION AND FINAL PAYMENT**

**§ 9.10.1** Upon receipt of written notice that the Work is ready for final inspection and acceptance and upon receipt of a final Application for Payment, the Owner, the Architect/Engineer, and the Using Agency will promptly make such inspection and, when the Owner finds the Work acceptable under the Contract Documents and the Contract fully performed, the Owner will promptly approve the final Application for Payment stating that to the best of the Owner's knowledge, information and belief, and on the basis of the aforementioned on-site visits and inspections, the Work has been completed in accordance with terms and conditions of the Contract Documents. After acceptance of the Work by the Owner, the Owner will make final payment to the Contractor of the amount remaining after deducting all prior payments and all amounts to be kept or retained under the provisions of the Contract Documents, including the following items:

- .1 Liquidated damages, as applicable, and described within the Agreement.
- .2 If items of Work are determined by the Owner to have been left uncompleted or uncorrected between the date of Substantial Completion and the date of Final Completion, and the Owner decides to issue a Certificate of Final Completion leaving those Work items incomplete or uncorrected, the following deduction may be made from the final payment: Two times the value of outstanding items of correction Work or Substantial Completion list items yet uncompleted or uncorrected, as applicable. The Contractor does hereby waive any and all claims to all monies withheld by the Owner to cover the value of all such uncompleted or uncorrected items.

The Owner's approval of the final Application for Payment will constitute a further representation that conditions listed in Section 9.10.2 as precedent to the Contractor's being entitled to final payment have been fulfilled.

**§ 9.10.2** Neither final payment nor any remaining retained percentage shall become due until the Contractor submits to the 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 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 30 days' prior written notice has been given to the Owner, (3) a written statement that the Contractor knows of no substantial 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) a certified statement signed by the subcontractors, indicating actual amounts paid to the Disadvantaged Business Enterprise (DBE) subcontractors and/or suppliers associated with the project, and (6) if required by the Owner, other data establishing payment or satisfaction of obligations, such as receipts, releases and waivers of liens, claims, security interests or encumbrances arising out of the Contract, to the extent and in such form as may be designated by the Owner. If a Subcontractor refuses to furnish a release or waiver required by the Owner, the Contractor may furnish a bond satisfactory to the Owner to indemnify the Owner against such lien. If such lien 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 such lien, including all costs and

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reasonable attorneys' fees.

**§ 9.10.3** If, after Substantial Completion of the Work, final completion thereof is materially delayed through no fault of the Contractor or by issuance of Change Orders affecting final completion, and the Owner so confirms, the Owner shall, upon application by the Contractor and approval by the Owner and without terminating the Contract, make payment of the balance due for that portion of the Work fully completed 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 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 Owner prior to approval 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.

**§ 9.10.4** The making of final payment shall constitute a waiver of Claims by the Owner except those arising from:

- .1 liens, Claims, security interests or encumbrances arising out of the Contract and unsettled;
- .2 failure of the Work to comply with the requirements of the Contract Documents; or
- .3 terms of special warranties required by the Contract Documents.

**§ 9.10.5** Acceptance of final payment by the Contractor, a subcontractor or material 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.

**§ 9.10.6** Release Of Retainage And Other Deductions. After executing the necessary documents to initiate the lien period, and not more than 45 days thereafter (based on a 30-day lien filing period and 15-day processing time), the Owner will release to the Contractor the retainage funds withheld pursuant to the Contract, less any deductions to cover pending claims against the Owner or Using Agency pursuant to Section 9.4.3.

- .1 After filing of the necessary documents to initiate the lien period, the Contractor shall have 30 days to complete any outstanding items of correction Work remaining to be completed or corrected as listed on a final punch list made a part of the Notice of Final Completion. Upon expiration of the 45 days, referred to in Section 9.10.6, the amounts withheld pursuant to the provisions of Section 9.10.1 herein, for all remaining Work items will be returned to the Contractor; provided, that said Work has been completed or corrected to the satisfaction of the Owner within said 30 days. Otherwise, the Contractor does hereby waive any and all claims for all monies withheld by the Owner under the Contract to cover two times the value of such remaining uncompleted or uncorrected items.

### ARTICLE 10 PROTECTION OF PERSONS AND PROPERTY

#### § 10.1 SAFETY PRECAUTIONS AND PROGRAMS

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

#### § 10.2 SAFETY OF PERSONS AND PROPERTY

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

- .1 employees on the Work and other persons who may be affected thereby;
- .2 the Work and materials and equipment to be incorporated therein, whether in storage on or off site, under care, custody or control of the Contractor or the Contractor's subcontractors of all tiers; and
- .3 other property at the site or adjacent thereto, such as trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation or replacement in the course of construction.

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

- .1 Unless otherwise specified in this subsection, the Contractor is advised that the site of the Work is not within any property, district, or site, and does not contain any building, structure, or object listed in the current National Register of Historic Places published by the United States Department of Interior. Should the Contractor encounter, during its operations, any part of a building, structure, or object that

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is incongruous with its surroundings, the Contractor shall immediately cease operations in that location and notify the Owner. The Owner will immediately investigate the Contractor's finding and direct the Contractor to either resume operations or to suspend operations as directed. Should the Owner order suspension of the Contractor's operations in order to protect an archaeological or historical finding, or order the Contractor to perform extra Work, such shall be covered by an appropriate contract change order.

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

- .1 All Contractors' operations shall be conducted in accordance with the project Construction Safety and Phasing Plan (CSPP) and the provisions set forth within the current version of AC 150/5370-2. The CSPP included within the contract documents conveys minimum requirements for operational safety on the airport during construction activities. The Contractor shall prepare and submit a Safety Plan Compliance Document that details how it proposes to comply with the requirements presented within the CSPP.
- .2 The Contractor shall implement all necessary safety plan measures prior to commencement of any work activity. The Contractor shall conduct routine checks to assure compliance with the safety plan measures. No deviation or modifications may be made to the approved CSPP unless approved in writing by the Owner.

§ 10.2.4 When use or storage of 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. A Material Safety Data Sheet shall be requested by the Contractor from the manufacturer of any hazardous product used, and material usage shall be accomplished with strict adherence to all safety requirements and all manufacturer's warnings and application instructions listed on the Material Safety Data Sheet and on the product container label. The Contractor shall be responsible for coordinating communications on any exchange of Material Safety Data Sheets or other hazardous material information that is required to be made available to, or exchanged between, or among, employers at the site in accordance with Laws or Regulations.

§ 10.2.5 The Contractor shall promptly remedy damage and loss (other than damage or loss insured under property insurance required by the Contract Documents) to property referred to in Sections 10.2.1.2 and 10.2.1.3 caused in whole or in part by the Contractor, a subcontractor of any tier, or anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable and for which the Contractor is responsible under Sections 10.2.1.2 and 10.2.1.3, except damage or loss attributable to acts or omissions of the Owner or Architect/Engineer 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 qualified and responsible member of the Contractor's organization at the site whose duty shall be the prevention of accidents. This person shall be approved by the Owner.

§ 10.2.7 The Contractor shall not load or permit any part of the construction or site to be loaded so as to endanger its safety.

### § 10.3 HAZARDOUS MATERIALS

§ 10.3.1 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 report the condition to the Owner in writing.

§ 10.3.2 The Owner shall obtain the services of a licensed laboratory to verify the presence or absence of the material or substance reported by the Contractor and, in the event such material or substance is found to be present, to verify that it has been rendered harmless. Unless otherwise required by the Contract Documents, the Owner shall furnish in writing to the Contractor the names and qualifications of persons or entities who are to perform tests verifying the presence or absence of such material or substance or who are to perform the task of removal or safe containment of

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such material or substance. The Contractor will promptly reply to the Owner in writing stating whether or not the Contractor has reasonable objection to the persons or entities proposed by the Owner. If the Contractor has an objection to a person or entity proposed by the Owner, the Owner shall propose another to whom the Contractor has no reasonable objection. When the material or substance has been rendered harmless, Work in the affected area shall resume upon written agreement of the Owner and Contractor. The Contract Time shall be extended appropriately and the Contract Sum shall be increased in the amount of the Contractor's reasonable additional costs of shut-down, delay and start-up, which adjustments shall be accomplished as provided in Article 7.

§ 10.3.3 The Owner shall not be responsible under Section 10.3 for materials and substances brought to the site by the Contractor unless such materials or substances were required by the Contract Documents.

§ 10.3.4 If, without negligence on the part of the Contractor, the Contractor is held liable 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 indemnify the Contractor for all cost and expense thereby incurred.

### § 10.4 ENVIRONMENTAL PROTECTION

§ 10.4.1 The Contractor shall comply with all Federal, state, and local laws and regulations controlling pollution of the environment. The Contractor shall take necessary precautions to prevent pollution of streams, ponds, and reservoirs with fuels, oils, bitumens, chemicals, or other harmful materials and to prevent pollution of the atmosphere from particulate and gaseous matter.

§ 10.4.2 The Contractor shall control storm water in accordance with current Alaska Department of Environmental Conservation Construction General Permit requirements for storm water control, and as described elsewhere in the contract documents.

### § 10.5 EMERGENCIES

§ 10.5.1 In an emergency affecting safety of persons or property, the Contractor shall act, at the Contractor's discretion, to prevent threatened damage, injury or loss. Additional compensation or extension of time claimed by the Contractor on account of an emergency shall be determined as provided in Section 4.3 and Article 7.

## ARTICLE 11 INSURANCE AND BONDS

### § 11.1 INSURANCE

§ 11.1.1 The Contractor shall purchase and maintain the insurance required under this section. Such insurance shall include the specific coverages set out herein and be written for not less than the limits of liability and coverages provided in the Supplementary General Conditions, or required by law, whichever are greater. All insurance shall be maintained continuously during the life of the Agreement up to the date of Final Completion and at all times thereafter when the Contractor may be correcting, removing, or replacing defective Work in accordance with Section 12.2, but the Contractor's liabilities under this Contract shall not be deemed limited in any way to the insurance coverage required. Policies shall also specify insurance provided by Contractor will be considered primary and not contributory to any other insurance available to the Owner. **Failure by the Contractor to keep such insurance in effect for the time period specified shall be deemed defective Work and resolved in accordance with the Contract Documents.**

§ 11.1.2 All insurance required by the Contract Documents to be purchased and maintained by the Contractor shall be obtained from insurance companies that are duly licensed or authorized in the State of Alaska to issue insurance policies for the limits and coverages so required. Such insurance companies shall have a current Best's Rating of at least an "A" (Excellent) general policy holder's rating and a Class VII financial size category and shall also meet such additional requirements and qualifications as may be provided in the Supplementary General Conditions.

§ 11.1.3 The Contractor shall furnish the Owner with certificates showing the type, amount, class of operations covered, effective dates and dates of expiration of policies. At least 30 days prior to the cancellation, non-renewal or reduction in the amount of coverage, Contractor shall provide written notice to the Owner. **All such insurance required herein (except for Workers' Compensation and Employer's Liability) shall name the Owner, Using Agency, their Consultants and subconsultants and their officers, directors, agents, and employees as "additional insureds" under the policies.** The Contractor shall purchase and maintain the following insurance:

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- .1 Workers' Compensation and Employer's Liability. This insurance shall protect the Contractor against all claims under applicable state Workers' Compensation laws. The Contractor shall also be protected against claims for injury, disease, or death of employees which, for any reason, may not fall within the provisions of a Workers' Compensation law. This policy shall include an "all states" endorsement. The Contractor shall require each Subcontractor similarly to provide Workers' Compensation Insurance for all of the latter's employees to be engaged in such work unless such employees are covered by the protection afforded by the Contractor's Workers' Compensation Insurance. In case any class of employees is not protected, under the Workers' Compensation Statute, the Contractor shall provide and shall cause each subcontractor to provide adequate employer's liability insurance for the protection of such of its employees as are not otherwise protected. **Contractor agrees to waive all rights of subrogation against the Owner for work performed under Contract.**

Note: If the Work called for in the Contract Documents involves work in or on any navigable waters, the Contractor shall provide Workers' Compensation coverage which shall include coverage under the Longshore and Harbor Workers' Compensation Act, the Jones Act, and any other coverage required under Federal or State laws pertaining to workers in or on navigable waters.

- .2 Commercial General Liability. This insurance shall be written in comprehensive form and shall protect the Contractor against all claims arising from injuries to persons other than its employees or damage to property of the Owner or others arising out of any act or omission of the Contractor or its agents, employees, or Subcontractors. The policy shall contain no exclusions for any operations within the scope of this Contract.
- .3 Comprehensive Automobile Liability. This insurance shall be written in comprehensive form and shall protect the Contractor against all claims for injuries to members of the public and damage to property of others arising from the use of motor vehicles, and shall cover operation on or off the site of all motor vehicles licensed for highway use, whether they are owned, non-owned, or hired. Coverage for hired motor vehicles should include endorsement covering liability assumed under this Contract.
- .4 Subcontractor's Insurance. The Contractor shall require and verify that each of its subcontractors maintain insurance meeting all of the requirements stated herein, unless specifically exempted from a required coverage. Subcontractor insurance coverage shall be of the type and in the amounts specified in the Supplementary General Conditions or Contractor shall insure the activities of its Subcontractors under the Contractor's own policy, in like amount.
- .5 Builder's Risk. This insurance shall be of the "all risks" type and shall be written in completed value form, and shall protect the Contractor, the Owner, and the Using Agency against risks of damage to buildings, structures, and materials and equipment. The amount of such insurance shall be not less than the insurable value of the Work at completion. Builder's risk insurance shall provide for losses to be payable to the Contractor, the Owner, and the Using Agency, as their interests may appear. The policy shall contain a provision that in the event of payment for any loss under the coverage provided, the insurance company shall have no rights of recovery against the Contractor, the Owner, and the Using Agency. The Builder's Risk policy shall insure against risks of direct physical loss or damage to property from any external cause. Allowable exclusions, if any, shall be as specified in the Supplementary General Conditions.

### § 11.2 PERFORMANCE BOND AND PAYMENT BOND

§ 11.2.1 The Contractor shall furnish performance and payment bonds, each in the amount set forth in the Supplementary General Conditions as security for the faithful performance and payment of all the Contractor's obligations under the Contract Documents. These bonds shall remain in effect at least until one year after the date of Substantial Completion except as otherwise provided by Law or Regulation or by the Contract Documents. The Contractor shall also furnish such other Bonds as are required by the Supplementary General Conditions. All bonds shall be in the form prescribed by the Contract Documents except as provided otherwise by laws or regulations, and shall be executed by such sureties as are named in the current list of "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" as published in Circular 570 (amended) by the Audit Staff, Bureau of Government Financial Operations, U.S. Treasury Department. All Bonds signed by an agent must be accompanied by a certified copy of such agent's authority to act.

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§ 11.2.2 If the surety on any bond furnished by the Contractor is declared bankrupt or becomes insolvent or its right to do business is terminated in any state where any part of the Work is located, the Contractor shall within 7 days thereafter substitute another bond and surety, which must be acceptable to the Owner.

§ 11.2.3 All Bonds required by the Contract Documents to be purchased and maintained by Contractor shall be obtained from surety companies that are duly licensed or authorized in the State of Alaska to issue bonds for the limits so required. Such surety companies shall also meet such additional requirements and qualifications as may be provided in the Supplementary General Conditions.

### 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 Owner's request or to requirements specifically expressed in the Contract Documents, it must, if required in writing by the Owner, be uncovered for the Owner's examination and be replaced at the Contractor's expense without change in the contract time.

§ 12.1.2 If a portion of the Work has been covered that the Owner has not specifically requested to examine prior to its being covered, the Owner may request to see such Work and it shall be uncovered by the Contractor. If such Work is in accordance with the Contract Documents, costs of uncovering and replacement shall, by appropriate Change Order, be at the Owner's expense. If such Work is not in accordance with the Contract Documents, correction shall be at the Contractor's expense unless the condition was caused by the Owner or a separate contractor in which event the Owner shall be responsible for payment of such costs.

#### § 12.2 CORRECTION OF WORK

§ 12.2.1 Before or after Substantial Completion. The Contractor shall promptly correct Work rejected by the Owner 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 and compensation for the Owner's and Architect's/Engineer's services and expenses made necessary thereby, shall be at the Contractor's expense.

§ 12.2.2 After Substantial Completion. In addition to any other warranties in this contract, the Contractor warrants that work performed under this contract conforms to the contract requirements and is free of any defect in equipment, material, work quality, or design furnished, or performed by the Contractor or any subcontractor or supplier at any tier. If, within one year after the date of Substantial Completion of the Work or designated portion thereof or after the date for commencement of warranties established under Section 9.9, or by terms of an applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Contractor shall correct it promptly after receipt of written notice from the Owner to do so unless the Owner has previously given the Contractor a written acceptance of such condition. The Owner shall give such notice promptly after discovery of the condition. 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 and to make a claim for breach of warranty. If the Contractor fails to correct nonconforming Work within a reasonable time during that period after receipt of notice from the Owner, the Owner may correct it in accordance with Section 2.4.

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

§ 12.2.4 The one-year period for correction of Work shall not be extended by corrective Work performed by the Contractor pursuant to this Section 12.2.

§ 12.2.5 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.

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§ 12.2.6 The Contractor shall bear the cost of correcting destroyed or damaged construction, whether completed or partially completed, of the Owner or separate contractors caused by the Contractor's correction or removal of Work which is not in accordance with the requirements of the Contract Documents.

§ 12.2.7 Nothing contained in this section shall be construed to establish a period of limitation with respect to other obligations which the Contractor might have under the Contract Documents. Establishment of the one-year period for correction of Work as described in Section 12.2.2 relates only to the specific obligation of the Contractor to correct the Work, and has no relationship to the time within which the obligation to comply with the Contract Documents may be sought to be enforced, nor to the time within which proceedings may be commenced to establish the Contractor's liability with respect to the Contractor's obligations other than specifically to correct the Work.

### **§ 12.3 ACCEPTANCE OF NONCONFORMING WORK**

§ 12.3.1 If the Owner prefers to accept Work which is not in accordance with the requirements of the Contract Documents, the Owner may do so instead of requiring its removal and correction, in which case the contract sum will be reduced as appropriate and equitable. Such adjustment shall be effected whether or not final payment has been made.

## **ARTICLE 13 MISCELLANEOUS PROVISIONS**

### **§ 13.1 GOVERNING LAW**

§ 13.1.1 The Contract shall be governed by the law of the State of Alaska. The Contractor shall observe and comply with all federal, state, and local laws, ordinances, codes, orders, and regulations which in any manner affect those engaged or employed on the Work, the materials used in the Work, or the conduct of the Work. If any discrepancy or inconsistency should be discovered in this Contract in relation to any such law, ordinance, code, order, or regulation, the Contractor shall report the same in writing to the Owner. The Contractor shall indemnify, defend, and hold harmless the Owner, the Using Agency, and their officers, agents, and employees against all claims or liability arising from violation of any such law, ordinance, code, or regulation, whether by Contractor or by its employees, Subcontractors, or third parties. Any particular law or regulation specified or referred to elsewhere in the Contract Documents shall not in any way limit the obligation of the Contractor to comply with all other provisions of federal, state, and local laws and regulations.

### **§ 13.2 SUCCESSORS AND ASSIGNS**

§ 13.2.1 The Owner and Contractor respectively bind themselves, their partners, successors, assigns and legal representatives to the other party hereto and to partners, successors, assigns and legal representatives of such other party in respect to covenants, agreements and obligations contained in the Contract Documents. Neither party to the Contract shall assign the Contract as a whole without written consent of the other. If either party attempts to make such an assignment without such consent, that party shall nevertheless remain legally responsible for all obligations under the Contract.

### **§ 13.3 WRITTEN NOTICE**

§ 13.3.1 Written notice shall be deemed to have been duly served if delivered in person to the individual or a member of the firm or entity or to an officer of the corporation for which it was intended, or if delivered at or sent by registered or certified mail to the last business address known to the party giving notice.

### **§ 13.4 RIGHTS AND REMEDIES**

§ 13.4.1 Duties and obligations imposed by the Contract Documents and rights and remedies available thereunder shall be in addition to and not a limitation of duties, obligations, rights and remedies otherwise imposed or available by law.

§ 13.4.2 No action or failure to act by the Owner, Architect/Engineer 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 in writing.

### **§ 13.5 TESTS AND INSPECTIONS**

§ 13.5.1 Tests, inspections and approvals of portions of the Work required by the Contract Documents or by laws, ordinances, rules, regulations or orders of public authorities having jurisdiction shall be made at an appropriate time.

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Unless otherwise provided, the Contractor shall make arrangements for such tests, inspections and approvals with an independent testing laboratory or entity acceptable to the Owner, or with the appropriate public authority, and shall bear all related costs of tests, inspections and approvals. The Contractor shall give the Owner timely notice of when and where tests and inspections are to be made so that the Owner may be present for such procedures. The Owner shall bear costs of tests, inspections or approvals that do not become requirements until after bids are received or negotiations concluded.

§ 13.5.2 If the Owner or public authorities having jurisdiction determine that portions of the Work require additional testing, inspection or approval not included under Section 13.5.1, the Owner will 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 of when and where tests and inspections are to be made so that the Owner may be present for such procedures. Such costs, except as provided in Section 13.5.3, shall be at the Owner's expense.

§ 13.5.3 If such procedures for testing, inspection or approval under Sections 13.5.1 and 13.5.2 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 Owner's and Architect's/Engineer's services and expenses shall be at the Contractor's expense.

§ 13.5.4 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.

§ 13.5.5 If the Owner is to observe tests, inspections or approvals required by the Contract Documents, the Owner will do so promptly and, where practicable, at the normal place of testing.

§ 13.5.6 Tests or inspections conducted pursuant to the Contract Documents shall be made promptly to avoid unreasonable delay in the Work.

§ 13.5.7 For Airport Improvement Program (AIP) contracts, the United States Government has agreed to reimburse the Owner for some portion of the Contract costs. Such reimbursement is made from time to time upon the Owner's request to the FAA. In consideration of the United States Government's (FAA's) agreement with the Owner, the Owner has included provisions in this contract pursuant to the requirements of Title 49 of the USC and the Rules and Regulations of the FAA that pertain to the work.

As required by the USC, the contract Work is subject to the inspection and approval of duly authorized representatives of the FAA Administrator, and is further subject to those provisions of the rules and regulations that are cited in the Contract, plans, or specifications.

No requirement of the USC, the rules and regulations implementing the USC, or this Contract shall be construed as making the Federal Government a party to the Contract nor will any such requirement interfere, in any way, with the rights of either party to the contract.

### § 13.6 COMMENCEMENT OF STATUTORY LIMITATION PERIOD

§ 13.6.1 As between the Owner and Contractor:

- .1 Before Substantial Completion. As to acts or failures to act occurring prior to the relevant date of Substantial Completion, any applicable statute of limitations shall commence to run and any alleged cause of action shall be deemed to have accrued in any and all events not later than such date of Substantial Completion;
- .2 Between Substantial Completion and Final Completion. As to acts or failures to act occurring subsequent to the relevant date of Substantial Completion and prior to the date of Final Completion, any applicable statute of limitations shall commence to run and any alleged cause of action shall be deemed to have accrued in any and all events not later than the date of Final Completion; and
- .3 After Final Completion. As to acts or failures to act occurring after the relevant date of Final Completion, any applicable statute of limitations shall commence to run and any alleged cause of action shall be deemed to have accrued in any and all events not later than the date of any act or failure to act by the Contractor pursuant to any Warranty provided under Section 3.5, the date of any correction of



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the Work or failure to correct the Work by the Contractor under Section 12.2, or the date of actual commission of any other act or failure to perform any duty or obligation by the Contractor or Owner, whichever occurs last.

### § 13.7 RETENTION AND INSPECTION OF RECORDS

§ 13.7.1 Record Retention and Maintenance. The Contractor shall keep and maintain in safe condition full and accurate records of all costs incurred and items billed and all other project records and documents relating to performance, communications, and correspondence in connection with the performance of the Work under this Contract, which records and documents shall be open to review, examination, reproduction or audit by the Owner or its authorized representatives during performance of the Work and until three years after final payment and all other pending matters are closed.

§ 13.7.2 Subcontractor Records. The Contractor shall make it a condition of all subcontracts of all tiers relating to the Work under this Contract that any and all subcontractors of all tiers will keep accurate records of costs incurred and items billed in connection with their Work and that such records shall be open to review, examination, reproduction or audit by the Owner or its authorized representatives during performance of the Work and until three years after final payment under the subcontract and all other pending matters are closed.

§ 13.7.3 Availability. The Contractor shall make available at its business office upon request at all reasonable times the materials described in Sections 2.5 including materials of both the Contractor and its subcontractors, for review, examination, reproduction, or audit for a period of three years after final payment under this Contract and all other pending matters are closed.

§ 13.7.4 Termination. If this Contract is completely or partially terminated, the records relating to the Work terminated shall be made available for three years after any resulting final termination settlement.

§ 13.7.5 Claims and Appeals. Records pertaining to any Claims or appeals submitted pursuant to Sections 4.3, 4.4 and 4.5 or otherwise arising from or relating to the performance of Work under this Contract shall be made available until such appeals are finally concluded. Such documents or records shall be made available to the Owner or its duly authorized representatives within thirty days of the Owner's request.

§ 13.7.6 Subcontracts. The Contractor shall include the provisions of Section 13.8 in all subcontracts so as to be binding on all subcontractors.

§ 13.7.7 Cost or Pricing Data. If the Contractor has submitted cost or pricing data in connection with the pricing of any Change Order or modification to this Contract, unless pricing was based on (1) adequate price competition, (2) established catalog or market price of commercial items sold in substantial quantities to the general public, or (3) prices set by law or regulation, the Owner shall have the right to audit all books, records, documents and other data of the Contractor, including computations and projections, related to negotiating, pricing or performing the Change Order or modification, in order to evaluate the accuracy, completeness, and currency of the cost or pricing data.

### § 13.8 GRATUITY AND CONFLICT OF INTEREST

§ 13.8.1 The Contractor agrees to not extend any loan, gratuity or gift of money of any form whatsoever to any employee or elected official of the City and Borough of Juneau or the Using Agency, nor will the Contractor rent or purchase any equipment or materials from any employee or elected official of the City and Borough of Juneau or the Using Agency, or to the best of the Contractor's knowledge, from any agent of any employee or elected official of the City and Borough of Juneau or the Using Agency. Before Final Payment, the Contractor shall execute and furnish the Owner an affidavit certifying that the Contractor has complied with the above provisions of the Contract.

### § 13.9 COST REDUCTION INCENTIVE

§ 13.9.1 At any time within 30 days after the date of the Notice of Award, the Contractor may submit to the Owner in writing, proposals for modifying the drawings, specifications, or other requirements of this Contract for the sole purpose of reducing the total cost of construction. The cost reduction proposal shall not impair in any manner the essential functions or characteristics of the project, including but not limited to, service life, economy of operation, ease of maintenance, desired appearance or design and safety standards.

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§ 13.9.2 The cost reduction proposal shall contain the following information:

1. Description of both the existing Contract requirements for performing the Work and the proposed changes.
2. An itemization of the Contract requirements that must be changed if the proposal is adopted.
3. A detailed estimate of the time required and the cost of performing the Work under both the existing Contract and the proposed change.
4. A statement of the date by which the Contractor must receive the decision from the Owner on the cost reduction proposal.
5. The Contract items of Work affected by the proposed changes including any quantity variations.
6. A description and estimate of costs the Owner may incur in implementing the proposed changes, such as test and evaluation and operating and support costs.
7. A prediction of any effects the proposed change would have on future operations and maintenance costs to the Owner.

§ 13.9.3 The provisions of this section shall not be construed to require the Owner to consider any cost reduction proposal that may be submitted; nor will the Owner be liable to the Contractor for failure to accept or act upon any cost reduction proposal submitted, or for delays to the Work attributable to the consideration or implementation of any such proposal.

§ 13.9.4 If a cost reduction proposal is similar to a change in the drawings or specifications for the project under consideration by the Owner at the time the proposal is submitted, the Owner will not accept such proposal and reserves the right to make such changes without compensation to the Contractor under the provisions of this section.

§ 13.9.5 The Contractor shall continue to perform the Work in accordance with the requirements of the Contract until an executed Change Order incorporating the cost reduction proposal has been issued. If any executed Change Order has not been issued by the date upon which the Contractor's cost reduction proposal specifies that a decision should be made by the Owner, in writing, the cost reduction proposal shall be considered rejected.

§ 13.9.6 The Owner shall be the sole judge of the acceptability of a cost reduction proposal and of the estimated net savings in Contract Time and construction costs resulting from the adoption of all or any part of such proposal. Should the Contractor disagree with Owner's decision on the cost reduction proposal, there is no further consideration. The Owner reserves the right to make final determination.

§ 13.9.7 If the Contractor's cost reduction proposal is accepted in whole or in part, such acceptance will be made by a Contract Change Order that specifically states that the change is executed pursuant to this cost reduction proposal section. Such Change Order shall incorporate the changes in the drawings and specifications that are necessary to permit the cost reduction proposal or such part of it as has been accepted to be put into effect and shall include any conditions upon which the Owner's approval is based, if such approval is conditional. The Change Order shall also describe the estimated net savings in the cost of performing the Work attributable to the cost reduction proposal, and shall further provide that the Contract cost be adjusted by crediting the Owner with the estimated net savings amount.

§ 13.9.8 Acceptance of the cost reduction proposal and performance of the Work does not extend the time of completion of the Contract, unless specifically provided in the Change Order authorizing the use of the submitted proposal. Should the adoption of the cost reduction proposal result in a contract time savings, the total contract time may be reduced by an amount equal to the time savings realized.

§ 13.9.9 The amount specified to the Contractor in the Change Order accepted in the cost reduction proposal shall constitute full compensation for the performance of Work. No claims for additional costs as a result of the changes specified in the cost reduction proposal shall be allowed.

§ 13.9.10 The Owner reserves the right to adopt and utilize any approved cost reduction proposal for general use on any Contract administered when it is determined suitable for such application. Cost reduction proposals identical, similar, or previously submitted will not be accepted for consideration if acceptance and compensation has previously been approved. The Owner reserves the right to use all or part of any cost reduction proposal without obligation or compensation of any kind to the Contractor.

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§ 13.9.11 The Contractor shall bear the costs, if any, to revise all bonds and insurance requirements for the project, to include the cost reduction Work.

### § 13.10 USE OF THE CBJ GRAVEL PIT

§ 13.10.1 The City and Borough of Juneau (CBJ) may make unclassified material available to Contractor, from the CBJ gravel pit, at a rate less than that charged to other customers. Contractor is not required to use material from the CBJ gravel pit and the CBJ makes no guarantee as to the quantity or quality of the available material.

§ 13.10.2 If Contractor proposes to use material from the CBJ gravel pit, Contractor must meet all requirements for use of the CBJ gravel pit as determined by the CBJ Engineering Department, Gravel Pit Management. Additional information is available at (907) 586-0884.

## 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 60 consecutive days through no act or fault of the Contractor or a subcontractor, sub-subcontractor or 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;  
or
- .3 because the Owner has not approved an application for payment and has not notified the Contractor of the reason for withholding approval as provided in Section 9.4, or
- .4 because the Owner has not made payment on an approved application for payment 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 or a subcontractor of any tier, or their agents or employees or any other persons or entities performing portions of the Work under direct or indirect contract with the Contractor, repeated suspensions, delays or interruptions of the entire Work by the Owner as described in Section 14.3 constitute in the aggregate more than 100 percent of the total number of days scheduled for completion, or 120 days in any 365-day period, whichever is less.

§ 14.1.3 If one of the reasons described in Section 14.1.1 or 14.1.2 exists, the Contractor may, upon seven days' written notice to the Owner, terminate the Contract and recover from the Owner payment for Work executed and for proven loss with respect to materials, equipment, tools, and construction equipment and machinery, including reasonable overhead, profit and damages.

§ 14.1.4 If the Work is stopped for a period of 90 consecutive days through no act or fault of the Contractor or a Subcontractor or their agents or employees or any other persons performing portions of the Work under contract with the Contractor because the Owner has persistently failed to fulfill the Owner's obligations under the Contract Documents with respect to matters important to the progress of the Work, the Contractor may, upon seven additional days' written notice to the Owner, terminate the Contract and recover from the Owner as provided in Section 14.1.3.

### § 14.2 TERMINATION BY THE OWNER FOR CAUSE

§ 14.2.1 The Owner may terminate the Contract if the Contractor:

- .1 persistently or repeatedly refuses or fails to supply enough properly skilled workers or proper materials;
- .2 fails to make payment to Subcontractors for materials or labor in accordance with the respective agreements between the Contractor and the Subcontractors;
- .3 persistently disregards laws, ordinances, or rules, regulations or orders of a public authority having jurisdiction; or
- .4 otherwise is guilty of substantial breach of a provision of the Contract Documents.

§ 14.2.2 When any of the above reasons exist, the Owner, upon certification that sufficient cause exists to justify such action, may without prejudice to any other rights or remedies of the Owner and after giving the Contractor and the

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Contractor's surety, if any, seven days' written notice, terminate employment of the Contractor and may, subject to any prior rights of the surety:

- .1 take possession of the site and of all materials, equipment, tools, and construction equipment and machinery thereon owned by the Contractor;
- .2 accept assignment of subcontracts pursuant to Section 5.4; and
- .3 finish the Work by whatever reasonable method the Owner may deem expedient. Upon request of the Contractor, the Owner shall furnish to the Contractor a detailed accounting of the costs incurred by the Owner in finishing the Work.

§ 14.2.3 When the Owner terminates the Contract for one of the reasons stated in Section 14.2.1, the Contractor shall not be entitled to receive further payment until the Work is finished.

§ 14.2.4 If the unpaid balance of the Contract Sum exceeds costs of finishing the Work, including compensation for the Architect's/Engineer's services and expenses made necessary thereby, and other damages incurred by the Owner and not expressly waived, such excess shall be paid to the Contractor. If such costs and damages exceed the unpaid balance, the Contractor shall pay the difference to the Owner. The amount to be paid to the Contractor or Owner shall be certified by the Owner upon application, and this obligation for payment shall survive termination of the Contract.

### § 14.3 SUSPENSION BY THE OWNER FOR CONVENIENCE

§ 14.3.1 The Owner may, without cause, order the Contractor in writing to suspend, delay or interrupt the Work in whole or in part for such period of time as the Owner may determine.

§ 14.3.2 The Contract Sum and Contract Time shall be adjusted for increases in the cost and time caused by suspension, delay or interruption as described in Section 14.3.1. Adjustment of the Contract Sum shall include profit. No adjustment shall be made to the extent:

- .1 that performance is, was or would have been so suspended, delayed or interrupted by another cause for which the Contractor is responsible; or
- .2 that an equitable adjustment is made or denied under another provision of the Contract.

### § 14.4 TERMINATION BY THE OWNER FOR CONVENIENCE

§ 14.4.1 The Owner may, at any time, terminate the Contract for the Owner's convenience and without cause.

§ 14.4.2 Upon receipt of 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 directed by the Owner, for the protection and preservation of the Work; and
- .3 except for Work directed to be performed prior to the effective date of termination stated in the notice, terminate all existing subcontracts and purchase orders and enter into no further subcontracts and purchase orders.

§ 14.4.3 In case of such termination for the Owner's convenience, the Contractor shall be entitled to receive payment for Work executed, and costs incurred by reason of such termination, along with reasonable overhead and profit on the Work not executed.

**END OF SECTION 00 7000**

## SECTION 00 8000 - SUPPLEMENTARY GENERAL CONDITIONS OF THE CONTRACT

### SGC 1: ADD the following to § 1.7 FEDERAL CONTRACT PROVISIONS

§ 1.7.1 ACCESS TO RECORDS AND REPORTS. (2 CFR § 200.326, 2 CFR § 200.333) The Contractor must maintain an acceptable cost accounting system. The Contractor agrees to provide the Sponsor, the Federal Aviation Administration, and the Comptroller General of the United States or any of their duly authorized representatives access to any books, documents, papers, and records of the Contractor which are directly pertinent to the specific contract for the purpose of making audit, examination, excerpts and transcriptions. The Contractor agrees to maintain all books, records and reports required under this contract for a period of not less than three years after final payment is made and all pending matters are closed.

§ 1.7.2 BUY AMERICAN PREFERENCES. (49 USC § 50101) The Contractor agrees to comply with 49 USC § 50101, which provides that Federal funds may not be obligated unless all steel and manufactured goods used in AIP-funded projects are produced in the United States, unless the FAA has issued a waiver for the product; the product is listed as an Excepted Article, Material Or Supply in Federal Acquisition Regulation subpart 25.108; or is included in the FAA Nationwide Buy American Waivers Issued list. The appropriate Buy American Certification presented with the Bid shall be fulfilled through the execution of the Work.

§ 1.7.3 CIVIL RIGHTS – GENERAL. (49 USC § 47123) The Contractor agrees to comply with pertinent statutes, Executive Orders and such rules as are promulgated to ensure that no person shall, on the grounds of race, creed, color, national origin, sex, age, or disability be excluded from participating in any activity conducted with or benefiting from Federal assistance. This provision binds the Contractor and subcontractors from the bid solicitation period through the completion of the contract. This provision is in addition to that required of Title VI of the Civil Rights Act of 1964.

§ 1.7.4 TITLE VI CLAUSES FOR COMPLIANCE WITH NONDISCRIMINATION REQUIREMENTS. (49 USC § 47123)

During the performance of this contract, the Contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the “Contractor”) agrees as follows:

1. Compliance with Regulations: The Contractor (hereinafter includes consultants) will comply with the Title VI List of Pertinent Nondiscrimination Statutes and Authorities, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.
2. Non-discrimination: The Contractor, with regard to the Work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The Contractor will not participate directly or indirectly in the discrimination prohibited by the Acts and the Regulations, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR part 21.
3. Solicitations for Subcontracts, Including Procurements of Materials and Equipment: In all solicitations, either by competitive bidding, or negotiation made by the Contractor for Work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the Contractor of the Contractor’s obligations under this contract and the Acts and the Regulations relative to Non-discrimination on the grounds of race, color, or national origin.
4. Information and Reports: The Contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the sponsor or the Federal Aviation Administration to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required of a Contractor is in the exclusive possession of another who fails or refuses to furnish the information, the Contractor will so certify to the sponsor of the Federal Aviation Administration, as appropriate, and will set forth what efforts it has made to obtain the information.
5. Sanctions for Noncompliance: In the event of a Contractor’s noncompliance with the Non-discrimination provisions of this contract, the sponsor will impose such contract sanctions as it or the Federal Aviation Administration may determine to be appropriate, including, but not limited to:
  - a. Withholding payments to the Contractor under the contract until the Contractor complies;

## SECTION 00 8000 - SUPPLEMENTARY GENERAL CONDITIONS OF THE CONTRACT

and/or

b. Cancelling, terminating, or suspending a contract, in whole or in part.

6. Incorporation of Provisions: The Contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The Contractor will take action with respect to any subcontract or procurement as the sponsor or the Federal Aviation Administration may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the Contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the Contractor may request the sponsor to enter into any litigation to protect the interests of the sponsor. In addition, the Contractor may request the United States to enter into the litigation to protect the interests of the United States.

§ 1.7.5 TITLE VI LIST OF PERTINENT NONDISCRIMINATION ACTS AND AUTHORITIES. (49 USC § 47123) During the performance of this contract, the Contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the “Contractor”) agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d *et seq.*, 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin);
- 49 CFR part 21 (Non-discrimination In Federally-Assisted Programs of The Department of Transportation - Effectuation of Title VI of The Civil Rights Act of 1964);
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 *et seq.*), as amended, (prohibits discrimination on the basis of disability); and 49 CFR part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 *et seq.*), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms “programs or activities” to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act of 1990, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131 – 12189) as implemented by Department of Transportation regulations at 49 CFR parts 37 and 38;
- The Federal Aviation Administration’s Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures non-discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 *et seq.*).

§ 1.7.6 DISADVANTAGED BUSINESS ENTERPRISE. (49 CFR part 26) The requirements of 49 CFR part 26 apply to this contract. It is the policy of the Juneau International Airport to practice nondiscrimination based on race, color,

## SECTION 00 8000 - SUPPLEMENTARY GENERAL CONDITIONS OF THE CONTRACT

sex or national origin in the award or performance of this contract. The Owner encourages participation by all firms qualifying under this solicitation regardless of business size or ownership.

- .1 Contract Assurance (§ 26.13) – The Contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The Contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the Owner deems appropriate, which may include, but is not limited to:
  - a. Withholding monthly progress payments;
  - b. Assessing sanctions;
  - c. Liquidated damages; and/or
  - d. Disqualifying the Contractor from future bidding as non-responsible.
- .2 Prompt Payment (§26.29) - The prime Contractor agrees to pay each subcontractor under this prime contract for satisfactory performance of its contract no later than 30 days from the receipt of each payment the prime contractor receives from the City and Borough of Juneau. The prime Contractor agrees further to return retainage payments to each subcontractor within 30 days after the subcontractor's work is satisfactorily completed. Any delay or postponement of payment from the above referenced time frame may occur only for good cause following written approval of the City and Borough of Juneau. This clause applies to both DBE and non-DBE subcontractors.

§ 1.7.7 ENERGY CONSERVATION REQUIREMENTS. (2 CFR § 200, Appendix II(H) ) Contractor and Subcontractor agree to comply with mandatory standards and policies relating to energy efficiency as contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (42 U.S.C. 6201*et seq*).

§ 1.7.8 FEDERAL FAIR LABOR STANDARDS ACT. (29 U.S.C. § 201, *et seq*) All contracts and subcontracts that result from this solicitation incorporate by reference the provisions of 29 CFR part 201, the Federal Fair Labor Standards Act (FLSA), with the same force and effect as if given in full text. The FLSA sets minimum wage, overtime pay, recordkeeping, and child labor standards for full and part time workers. The Contractor has full responsibility to monitor compliance to the referenced statute or regulation. The Contractor must address any claims or disputes that arise from this requirement directly with the U.S. Department of Labor – Wage and Hour Division.

§ 1.7.9 OCCUPATIONAL SAFETY AND HEALTH ACT. (20 CFR part 1910) All contracts and subcontracts that result from this solicitation incorporate by reference the requirements of 29 CFR Part 1910 with the same force and effect as if given in full text. Contractor must provide a work environment that is free from recognized hazards that may cause death or serious physical harm to the employee. The Contractor retains full responsibility to monitor its compliance and their subcontractor's compliance with the applicable requirements of the Occupational Safety and Health Act of 1970 (20 CFR Part 1910). Contractor must address any claims or disputes that pertain to a referenced requirement directly with the U.S. Department of Labor – Occupational Safety and Health Administration.

§ 1.7.10 VETERAN'S PREFERENCE. (49 USC § 47112(c) In the employment of labor (excluding executive, administrative, and supervisory positions), the Contractor and all sub-tier contractors must give preference to covered veterans as defined within Title 49 United States Code Section 47112. Covered veterans include Vietnam-era veterans, Persian Gulf veterans, Afghanistan-Iraq war veterans, disabled veterans, and small business concerns (as defined by 15 U.S.C. 632) owned and controlled by disabled veterans. This preference only applies when there are covered veterans readily available and qualified to perform the work to which the employment relates.

§ 1.7.11 COPELAND ANTI – KICKBACK ACT. (2 CFR § 200, Appendix II(D), 29 CFR Parts 3 & 5) Contractor must comply with the requirements of the Copeland “Anti-Kickback” Act (18 U.S.C. 874 and 40 U.S.C. 3145), as supplemented by Department of Labor regulation 29 CFR part 3. Contractor and subcontractors are prohibited from inducing, by any means, any person employed on the project to give up any part of the compensation to which the employee is entitled. The Contractor and each subcontractor must submit to the Owner, a weekly statement on the wages paid to each employee performing on covered Work during the prior week. Owner must report any violations of the Act to the Federal Aviation Administration.

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### § 1.7.12 DAVIS-BACON REQUIREMENTS. (2 CFR § 200, Appendix II(D), 29 CFR Part 5)

#### .1 Minimum Wages

(i) All laborers and mechanics employed or working upon the site of the Work will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by the Secretary of Labor under the Copeland Act (29 CFR Part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalent thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics. Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph (1)(iv) of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR Part 5.5(a)(4). Laborers or mechanics performing Work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: *Provided*, that the employer's payroll records accurately set forth the time spent in each classification in which Work is performed. The wage determination (including any additional classification and wage rates conformed under (1)(ii) of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the Work in a prominent and accessible place where it can easily be seen by the workers.

(ii)(A) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

- (1) The Work to be performed by the classification requested is not performed by a classification in the wage determination; and
- (2) The classification is utilized in the area by the construction industry; and
- (3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(B) If the Contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, D.C. 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(C) In the event the Contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(D) The wage rate (including fringe benefits where appropriate) determined pursuant to subparagraphs (1)(ii) (B) or (C) of this paragraph, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

(iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the



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benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

- (iv) If the Contractor does not make payments to a trustee or other third person, the Contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, *provided*, that the Secretary of Labor has found, upon the written request of the Contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the Contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.
- .2 Withholding. The Federal Aviation Administration or the sponsor shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the Contractor under this contract or any other Federal contract with the same prime Contractor, or any other Federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime Contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the Contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of work, all or part of the wages required by the contract, the Federal Aviation Administration may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.
- .3 Payrolls and basic records.
  - (i) Payrolls and basic records relating thereto shall be maintained by the Contractor during the course of the Work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the Work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual costs incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.
  - (ii)(A) The Contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the Federal Aviation Administration if the agency is a party to the contract, but if the agency is not such a party, the Contractor will submit the payrolls to the applicant, sponsor, or Owner, as the case may be, for transmission to the Federal Aviation Administration. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (*e.g.*, the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime Contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the Federal Aviation Administration if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit them to the applicant, sponsor, or Owner, as the case may be, for transmission to the Federal Aviation Administration, the Contractor, or the Wage and Hour Division of the Department of Labor for

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purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime Contractor to require a subcontractor to provide addresses and social security numbers to the prime Contractor for its own records, without weekly submission to the sponsoring government agency (or the applicant, sponsor, or Owner).

(B) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the Contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(1) That the payroll for the payroll period contains the information required to be provided under 29 CFR § 5.5(a)(3)(ii), the appropriate information is being maintained under 29 CFR § 5.5 (a)(3)(i) and that such information is correct and complete;

(2) That each laborer and mechanic (including each helper, apprentice and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations 29 CFR Part 3;

(3) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of Work performed, as specified in the applicable wage determination incorporated into the contract.

(C) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph (3)(ii)(B) of this section.

(D) The falsification of any of the above certifications may subject the Contractor or subcontractor to civil or criminal prosecution under Section 1001 of Title 18 and Section 231 of Title 31 of the United States Code.

- (iii) The Contractor or subcontractor shall make the records required under paragraph (3)(i) of this section available for inspection, copying or transcription by authorized representatives of the sponsor, the Federal Aviation Administration or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the Contractor or subcontractor fails to submit the required records or to make them available, the Federal agency may, after written notice to the Contractor, sponsor, applicant or Owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

#### 4. Apprentices and Trainees.

- (i) Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State Apprenticeship Agency recognized by the Bureau, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the Contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a Contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the

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- apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Bureau of Apprenticeship and Training, or a State Apprenticeship Agency recognized by the Bureau, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.
- (ii) Trainees. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate that is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the Contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.
- (iii) Equal Employment Opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended and 29 CFR Part 30.
- .5 Compliance with Copeland Act Requirements. The Contractor shall comply with the requirements of 29 CFR Part 3, which are incorporated by reference in this contract.
- .6 Subcontracts. The Contractor or subcontractor shall insert in any subcontracts the clauses contained in 29 CFR Part 5.5(a)(1) through (10) and such other clauses as the Federal Aviation Administration may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime Contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR Part 5.5.
- .7 Contract Termination: Debarment. A breach of the contract clauses in paragraph 1 through 10 of this section may be grounds for termination of the contract, and for debarment as a Contractor and a subcontractor as provided in 29 CFR 5.12.
- .8 Compliance With Davis-Bacon and Related Act Requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR Parts 1, 3, and 5 are herein incorporated by reference in this contract.
- .9 Disputes Concerning Labor Standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR Parts 5, 6 and 7. Disputes within the meaning of this clause include disputes between the Contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.
- .10 Certification of Eligibility.
- (i) By entering into this contract, the Contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the Contractor's firm is a person or firm ineligible to be awarded Government

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contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

§ 1.7.13 **DISTRACTED DRIVING.** (Executive Order 13513, DOT Order 3902.10) In accordance with Executive Order 13513, "Federal Leadership on Reducing Text Messaging While Driving" (10/1/2009) and DOT Order 3902.10 "Text Messaging While Driving" (12/30/2009), the FAA encourages recipients of Federal grant funds to adopt and enforce safety policies that decrease crashes by distracted drivers, including policies to ban text messaging while driving when performing work related to a grant or sub-grant.

In support of this initiative, the Owner encourages the Contractor to promote policies and initiatives for its employees and other work personnel that decrease crashes by distracted drivers, including policies that ban text messaging while driving motor vehicles while performing work activities associated with the project. The Contractor must include the substance of this clause in all sub-tier contracts exceeding \$3,500 and involve driving a motor vehicle in performance of work activities associated with the project.

§ 1.7.14 **EQUAL OPPORTUNITY.** (2 CFR 200, Appendix II(C), 41 CFR § 60-1.4, 41 CFR § 60-4.3, part 60-4, Executive Order 11246) During the performance of this contract, the contractor agrees as follows:

.1 The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identify or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

.2 The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive considerations for employment without regard to race, color, religion, sex, or national origin.

.3 The Contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

.4 The Contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.

.5 The Contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

.6 In the event of the Contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

.7 The Contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The Contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance: *provided, however,* that in the event a Contractor becomes involved in, or is threatened with, litigation with

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a subcontractor or vendor as a result of such direction by the administering agency the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

§ 1.7.15 EQUAL OPPORTUNITY SPECIFICATIONS. (2 CFR 200, Appendix II(C), 41 CFR § 60-1.4, 41 CFR § 60-4.3, part 60-4, Executive Order 11246)

1. As used in these specifications:

a. "Covered area" means the geographical area described in the solicitation from which this contract resulted;

b. "Director" means Director, Office of Federal Contract Compliance Programs (OFCCP), U.S. Department of Labor, or any person to whom the Director delegates authority;

c. "Employer identification number" means the Federal social security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941;

d. "Minority" includes:

- (1) Black (all) persons having origins in any of the Black African racial groups not of Hispanic origin);
- (2) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin regardless of race);
- (3) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and
- (4) American Indian or Alaskan native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).

2. Whenever the Contractor, or any subcontractor at any tier, subcontracts a portion of the Work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.

3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors shall be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or subcontractor participating in an approved plan is individually required to comply with its obligations under the EEO clause and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors or subcontractors toward a goal in an approved Plan does not excuse any covered Contractor's or subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.

4. The Contractor shall implement the specific affirmative action standards provided in paragraphs 7a through 7p of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered construction contractors performing construction work in a geographical area where they do not have a Federal or federally assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed. Goals are published periodically in the Federal Register in notice form, and such notices may be obtained from any Office of Federal Contract Compliance Programs office or from Federal procurement contracting officers. The Contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specified.

5. Neither the provisions of any collective bargaining agreement nor the failure by a union with whom the contractor has a collective bargaining agreement to refer either minorities or women shall excuse the contractor's obligations under these specifications, Executive Order 11246 or the regulations promulgated pursuant thereto.

6. In order for the non-working training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees shall be employed by the contractor during the training period and the contractor shall have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees shall be trained pursuant to

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training programs approved by the U.S. Department of Labor.

7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The contractor shall document these efforts fully and shall implement affirmative action steps at least as extensive as the following:

- a. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other onsite supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.
- b. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.
- c. Maintain a current file of the names, addresses, and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source, or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefore along with whatever additional actions the contractor may have taken.
- d. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or female sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
- e. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under 7b above.
- f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.
- g. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination, or other employment decisions including specific review of these items with onsite supervisory personnel such a superintendents, general foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.
- h. Disseminate the contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and subcontractors with whom the Contractor does or anticipates doing business.
- i. Direct its recruitment efforts, both oral and written, to minority, female, and community organizations, to schools with minority and female students; and to minority and female recruitment and training organizations serving the contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the contractor shall send written notification to organizations, such as the above, describing the openings, screening procedures, and tests to be used in the selection process.
- j. Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer, and vacation employment to minority and female youth

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both on the site and in other areas of a Contractor's workforce.

k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.

l. Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel, for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.

m. Ensure that seniority practices, job classifications, work assignments, and other personnel practices do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and Contractor's obligations under these specifications are being carried out.

n. Ensure that all facilities and company activities are non-segregated except that separate or single user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.

o. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.

p. Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.

8. Contractors are encouraged to participate in voluntary associations, which assist in fulfilling one or more of their affirmative action obligations (7a through 7p). The efforts of a contractor association, joint contractor union, contractor community, or other similar groups of which the Contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under 7a through 7p of these specifications provided that the Contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the Contractor's minority and female workforce participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.

.9 A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, if the particular group is employed in a substantially disparate manner (for example, even though the contractor has achieved its goals for women generally,) the Contractor may be in violation of the Executive Order if a specific minority group of women is underutilized.

.10 The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, or national origin.

.11 The Contractor shall not enter into any subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.

.12 The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination, and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.

.13 The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.

.14 The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government, and to keep records. Records shall at least include for each employee, the name, address, telephone number, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice, trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of

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pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, Contractors shall not be required to maintain separate records.

.15 Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

### § 1.7.16 PROHIBITION AGAINST SEGREGATED FACILITIES. (41 CFR 60)

(a) The Contractor agrees that it does not and will not maintain or provide for its employees any segregated facilities at any of its establishments, and that it does not and will not permit its employees to perform their services at any location under its control where segregated facilities are maintained. The Contractor agrees that a breach of this clause is a violation of the Equal Opportunity clause in this contract.

(b) "Segregated facilities," as used in this clause, means any waiting rooms, work areas, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees, that are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, sex, or national origin because of written or oral policies or employee custom. The term does not include separate or single-user restrooms or necessary dressing or sleeping areas provided to assure privacy between the sexes.

(c) The Contractor shall include this clause in every subcontract and purchase order that is subject to the Equal Opportunity clause of this contract.

§ 1.7.17 PROCUREMENT OF RECOVERED MATERIALS. (2 CFR § 200.322, 40 CFR part 247) Contractor and subcontractor agree to comply with Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act, and the regulatory provisions of 40 CFR Part 247. In the performance of this contract and to the extent practicable, the Contractor and subcontractors are to use of products containing the highest percentage of recovered materials for items designated by the Environmental Protection Agency (EPA) under 40 CFR Part 247 whenever:

- a) The contract requires procurement of \$10,000 or more of a designated item during the fiscal year; or,
- b) The contractor has procured \$10,000 or more of a designated item using Federal funding during the previous fiscal year.

The list of EPA-designated items is available at [www.epa.gov/epawaste/consERVE/tools/cpg/products/](http://www.epa.gov/epawaste/consERVE/tools/cpg/products/).

Section 6002(c) establishes exceptions to the preference for recovery of EPA-designated products if the Contractor can demonstrate the item is:

- a) Not reasonably available within a timeframe providing for compliance with the contract performance schedule;
- b) Fails to meet reasonable contract performance requirements; or
- c) Is only available at an unreasonable price.

§ 1.7.18 TAX DELINQUENCY & FELONY CONVICTIONS. (2014 Consolidated Appropriations Act, Title IV, Division L, Sections 415 & 416) Bidders must complete two certification statements regarding its current status as it relates to tax delinquency and felony conviction. The certification statements are located in Section 00 4311 of the Bidding Requirements section of the contract documents.

§ 1.7.19 TERMINATION OF CONTRACT FOR CONVENIENCE. (2 CFR § 200 Appendix II(B), FAA Advisory Circular 150/5370-10, Section 80-09) The Owner may terminate this contract in whole or in part at any time by providing written notice to the Contractor. Such action may be without cause and without prejudice to any other right or remedy of Owner. Upon receipt of a written notice of termination, except as explicitly directed by the Owner, the Contractor shall immediately proceed with the following obligations regardless of any delay in determining or adjusting amounts due under this clause:

- .1 Contractor must immediately discontinue Work as specified in the written notice.
- .2 Terminate all subcontracts to the extent they relate to the Work terminated under the notice.



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- .3 Discontinue orders for materials and services except as directed by the written notice.
- .4 Deliver to the Owner all fabricated and partially fabricated parts, completed and partially completed Work, supplies, equipment and materials acquired prior to termination of the Work and as directed in the written notice.
- .5 Complete performance of the Work not terminated by the notice.
- .6 Take action as directed by the Owner to protect and preserve property and Work related to this contract that Owner will take possession.

Owner agrees to pay Contractor for:

- a) completed and acceptable Work executed in accordance with the contract documents prior to the effective date of termination;
- b) documented expenses sustained prior to the effective date of termination in performing Work and furnishing labor, materials, or equipment as required by the contract documents in connection with uncompleted work;
- c) reasonable and substantiated claims, costs and damages incurred in settlement of terminated contracts with Subcontractors and Suppliers; and
- d) reasonable and substantiated expenses to the Contractor directly attributable to Owner's termination action.

Owner will not pay Contractor for loss of anticipated profits or revenue or other economic loss arising out of or resulting from the Owner's termination action. The rights and remedies this clause provides are in addition to any other rights and remedies provided by law or under this contract.

**§ 1.7.20 TERMINATION OF CONTRACT FOR DEFAULT.** Section 80-09 of FAA Advisory Circular 150/5370-10 establishes conditions, rights and remedies associated with Owner termination of this contract due default of the Contractor.

**§ 1.7.21 DEBARMENT AND SUSPENSION.** (2 CFR part 180 (Subpart C), 2 CFR part 1200, DOT Order 4200.5 The successful bidder, by administering each lower tier subcontract that exceeds \$25,000 as a "covered transaction", must verify each lower tier participant of a "covered transaction" under the project is not presently debarred or otherwise disqualified from participation in this federally assisted project. The successful bidder will accomplish this by:

- .1 Checking the System for Award Management at website: [www.sam.gov](http://www.sam.gov)
- .2 Collecting a certification statement similar to the Certificate Regarding Debarment and Suspension (Bidder or Offeror), above.
- .3 Inserting a clause or condition in the covered transaction with the lower tier contract. If the FAA later determines that a lower tier participant failed to disclose to a higher tier participant that it was excluded or disqualified at the time it entered the covered transaction, the FAA may pursue any available remedies, including suspension and debarment of the non-compliant participant.

**§ 1.7.22 CONTRACT WORKHOURS AND SAFETY STANDARDS ACT.** (2 CFR § 200, Appendix II(E))

- .1 Overtime Requirements. No Contractor or subcontractor contracting for any part of the contract Work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic, including watchmen and guards, in any workweek in which he or she is employed on such Work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.
- .2 Violation; Liability for Unpaid Wages; Liquidated Damages. In the event of any violation of the clause set forth in paragraph (1) of this clause, the Contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such Contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1) of this clause, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1) of this clause.

**SECTION 00 8000 - SUPPLEMENTARY GENERAL CONDITIONS OF THE CONTRACT**

.3 Withholding for Unpaid Wages and Liquidated Damages. The Federal Aviation Administration (FAA) or the Owner shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the Contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime Contractor, such sums as may be determined to be necessary to satisfy any liabilities of such Contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph 2 of this clause.

.4 Subcontractors. The Contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraphs (1) through (4) and also a clause requiring the subcontractor to include these clauses in any lower tier subcontracts. The prime Contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1) through (4) of this clause.

§ 1.7.23 BREACH OF CONTRACT. 2 CFR part 200, Appendix II(A)) Any violation or breach of terms of this contract on the part of the Contractor or its subcontractors may result in the suspension or termination of this contract or such other action that may be necessary to enforce the rights of the parties of this agreement. Owner will provide Contractor written notice that describes the nature of the breach and corrective actions the Contractor must undertake in order to avoid termination of the contract. Owner reserves the right to withhold payments to Contractor until such time the Contractor corrects the breach or the Owner elects to terminate the contract. The Owner’s notice will identify a specific date by which the Contractor must correct the breach. Owner may proceed with termination of the contract if the Contractor fails to correct the breach by deadline indicated in the Owner’s notice. The duties and obligations imposed by the Contract Documents and the rights and remedies available thereunder are in addition to, and not a limitation of, any duties, obligations, rights and remedies otherwise imposed or available by law.

§ 1.7.24 CLEAN AIR/WATER POLLUTION CONTROL. (2 CFR § 200, Appendix II(G) Contractor agrees to comply with all applicable standards, orders, and regulations issued pursuant to the Clean Air Act (42 U.S.C. § 740-7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. § 1251-1387). The Contractor agrees to report any violation to the Owner immediately upon discovery. The Owner assumes responsibility for notifying the Environmental Protection Agency (EPA) and the Federal Aviation Administration. Contractor must include this requirement in all subcontracts that exceeds \$150,000.

**SGC 2: Add the following to § 8.3 DELAYS AND EXTENSIONS OF TIME**

§ 8.3.5 The State of Alaska is currently under health mandates that may affect this project. The Contractor shall include in its bids all costs and time associated with compliance with such health mandates.

**SGC 3: Add the following to § 11.1 INSURANCE**

The limits of liability for the insurance required by Article 11 of the General Conditions shall provide coverage for not less than the following amounts or greater where required by Laws and Regulations.

Insurance requirements apply as follows:

- A. Workers’ Compensation: As in accordance with AS 23.30.045:
  - 1. State: Statutory
  - 2. Employer’s Liability:
 

Bodily Injury by Accident:	\$100,000.00	Each Accident
Bodily Injury by Disease:	\$100,000.00	Each Employee
Bodily Injury by Disease:	\$500,000.00	Policy Limit
- B. Commercial General Liability (Primary Limits):
 

1. a. General Policy	\$1,000,000.00	Each Occurrence
	\$2,000,000.00	Annual Aggregate
b. Products/Completed Operations	\$1,000,000.00	Each Occurrence
	\$2,000,000.00	Annual Aggregate
c. Personal Injury	\$1,000,000.00	Each Occurrence

**SECTION 00 8000 - SUPPLEMENTARY GENERAL CONDITIONS OF THE CONTRACT**

- C. Comprehensive Automobile Liability: including Owned, Hired, and Non-Owned Vehicles:
  - 1. Combined Single Limit, Bodily Injury and Property Damage \$1,000,000.00
- D. Builder's Risk insurance, as described in Article 11 of the General Conditions is not required for this project.
- E. Hazardous Materials: As a condition of the Contract award, Contractor shall provide evidence of insurance coverage for Contractor's Pollution Liability as applicable to the Work covered by abatement Subcontractor(s). Such coverage shall include operations addressing the removal and disposal of all hazardous materials with no exclusions for lead. Minimum limits shall be \$1,000,000 per claim/ \$1,000,000 aggregate. The policy shall not contain any exclusion relating to the hazardous materials Form of such policy shall be acceptable to the Owner. The policy shall name the City and Borough of Juneau as additional insured.

**SGC 4: Add the following to § 11.2 PERFORMANCE AND PAYMENT BOND**

**§ 11.2.1 PERFORMANCE AND PAYMENT BOND AMOUNTS**

.1 The Contractor shall furnish Performance and Payment Bonds on forms provided by the CBJ for the penal sums of 100% of the amount of the Bid award. The surety on each bond may be any corporation or partnership authorized to do business in the State of Alaska as an insurer under AS 21.09.

**SGC 5: Add the following to § 3.13 USE OF SITE**

**§ 3.13.4** Portions of the Work require access to the adjacent property at 8995 Yandukin Way that is owned by Channel Flying. The Contractor shall follow all conditions of the six page Private Property Access Agreement included as Appendix A to Section 00 8000.

# SECTION 00 8000

## APPENDIX A

Supplementary General  
Condition No. 5

Temporary Construction  
Access Agreement

## **TEMPORARY CONSTRUCTION ACCESS AGREEMENT**

This Temporary Construction Access Agreement (“Agreement”) is between the Juneau International Airport (“JNU”), an entity of the City and Borough of Juneau, Alaska (“CBJ”), and Channel Flying, Inc. and COASTAL HELICOPTERS INC. (collectively “Grantor”). JNU and Grantor are collectively referred to as “Parties”.

**PROJECT OVERVIEW:** JNU is demolishing the old Sand Shed and Chemical Building (“Project”). As part of this project, Grantor’s building will be structurally separated from the Project building. JNU’s selected contractor for the Project will require access to the Grantor’s property and building to stabilize the wall separating the two buildings. This will entail the construction of new steel columns and an interior wall within the west end of the Grantor’s building. This Agreement is to provide access to JNU’s contractor to the Grantor’s property and building for the purpose of planning and eventual construction along the wall in accordance with Project contract documents.

The general scope of this Agreement is intended to allow JNU’s contractor on the project to review existing conditions at the Grantor’s building, including measuring and photographing, in order to determine means and methods to accomplish the Work. Upon review, JNU’s contractor will develop a project schedule and Work Plan to articulate the Work within the Grantor’s building and submit this to the Grantor’s Representative and the JNU Project Manager, identified in Section 11 below, for approval before proceeding with any on-site Work at Grantor’s building. On-site work is anticipated to require construction of a new wall, including structural steel in accordance with the contract documents. Work is intended to be carried out efficiently and expediently in a manner meant to minimize any operational impacts to Grantor’s building tenant, Coastal Helicopters, Inc.

### **THIS AGREEMENT IS SUBJECT TO THE FOLLOWING TERMS & CONDITIONS:**

**1. RIGHTS GRANTED.** The right is hereby granted to JNU to enter upon Grantor’s property and use a fraction of the building of Grantor, described in Section 2 below. JNU has submitted current Project contract documents and work plans to Grantor, which are subject to a competitive bid process. Once bid, JNU and its selected project Contractor will work closely with Grantor to develop and review a project schedule and work plan that is acceptable to all parties. After the Parties have agreed in writing to the project schedule and Work Plan, this Agreement will grant access to the below-referenced fraction for demolition and all purposes necessary to facilitate and accomplish the construction of JNU’s project described in the project overview above.

**2. AFFECTED PARCEL.** The temporary construction access, used during construction of the project, is for the parcel legally described as USS 1434 TR B, Juneau Recording District, State of Alaska (Assessor ID No. 5B1501080020), consisting of approx. .85 acres or 37,205 feet, as described in Attachment 1. Access will be limited to the hangar space west of the

as described in Attachment 1. Access will be limited to the hangar space west of the passenger/employee corridor (attachment 1). Access to the Coastal offices will be available to contractor/construction during business hours. The parties understand that due to logistics and safety precautions, operations may be restricted in the areas subject to construction. The parties recognize that the hangar is an operational hub for Coastal Helicopters and as a result, access to JNU contractors may be required to be temporarily suspended. Except in cases of emergency, Grantor shall take reasonable measures to provide advance notice to JNU before suspending access.

**3. NOTICE TO GRANTOR.** JNU shall provide thirty (30) day written notice to the Grantor prior to the start of construction. Once construction has started, JNU shall provide Grantor at least seven (7) days' notice prior to entering Grantor's facility. All notices will be made between the parties' representatives identified in Section 11 below.

**4. EQUIPMENT.** JNU intends to limit the use of equipment, tools, and materials within Grantor's building to only those items essential to the construction of the wall. JNU nor its construction contractor will not store equipment, tools, or materials in Grantor's building.

**5. GRANTOR'S USE OF CONTRACTORS.** JNU recognizes Grantor may employ its own consultant or contractor to review the JNU project. Grantor's use of contractors shall be at its own expense. JNU will retain the sole right of project control, but will hear the opinions of the Grantor and attempt to resolve issues to mutual agreement.

**6. DEBRIS REMOVED.** JNU will have its contractor immediately collect any construction debris from Grantor's property and store such debris adjacent to the JNU project prior to its removal off-site.

**7. HOLD HARMLESS.** Grantor shall be held harmless from all claims of a third party arising from JNU's use of the Grantor's property and building under this Agreement; however, this hold harmless agreement does not extend to liability arising out of Grantor's sole negligence or willful misconduct or to any liability arising from or as a consequence of the presence of hazardous materials or waste on Grantor's property or in Grantor's building.

**8. OWNERSHIP.** Grantor hereby warrants that they are the owners of the Property and they have the right to grant JNU permission to enter upon and use the property and facility.

**9. MODIFICATIONS IN WRITING.** This Agreement shall not be changed, modified, or amended except upon written consent of the parties hereto.

**10. SUCCESSORS AND ASSIGNS.** Grantor, its assigns and successors in interest, shall be bound by all the terms and conditions contained in this Agreement.

**11. CONTACT.** Grantors' representatives through the Project will be: Craig Loken 907-723-7880, Aral Loken 907-723-3087, and Mike Wilson 907-789-5600. JNU's project manager, appointed by the JNU Airport Manager, shall serve as JNU's representative. The representatives shall meet on a routine basis, to be mutually agreed upon by the parties, to discuss JNU's contractor progress and any area of concern. JNU's project manager will be the

sole contact responsible for hearing and addressing Grantor's concerns, as well as determine if changes or modifications are necessary in JNU's contractor's project agreement. JNU will make every effort to address reasonable concerns brought by Grantor that arise during construction.

**12. CHOICE OF LAW, JURISDICTION.** The Superior Court for the State of Alaska, First Judicial District at Juneau, Alaska shall be the exclusive jurisdiction for any action of any kind and any nature arising out of or related to this Agreement. Venue for trial in any action shall be in Juneau, Alaska. The laws of the State of Alaska shall govern the rights and obligations of the parties.

**13. ENTIRE AGREEMENT.** This Agreement, including all appendices and exhibits, constitutes the entire agreement of the Parties regarding the subject matter of the agreement and supersedes all previous agreements, proposals, and understandings, whether written or oral, relating to this subject matter.

**14. SEVERABILITY.** If a court of competent jurisdiction renders any part of this agreement invalid or unenforceable, that part will be severed and the remainder of this agreement will continue in full force and effect.

**15. WAIVER.** Failure or delay by any Party to exercise a right or power under this agreement will not be a waiver of the right or power. For a waiver of a right or power to be effective, it must be in a writing signed by the Party. An effective waiver of a right or power will not be construed as either a future or continuing waiver of that same right or power, or the waiver of any other right or power.

**16. This Agreement will terminate** 12/31/2020 unless extended by written agreement of both parties.

**JNU:**

Date: 7-24-2020  
By: Patricia Wahto  
Patricia Wahto  
Airport Manager

**CHANNEL FLYING, INC.:**

Date: 7/24/2020  
By: Craig Loken  
Craig Loken  
Owner

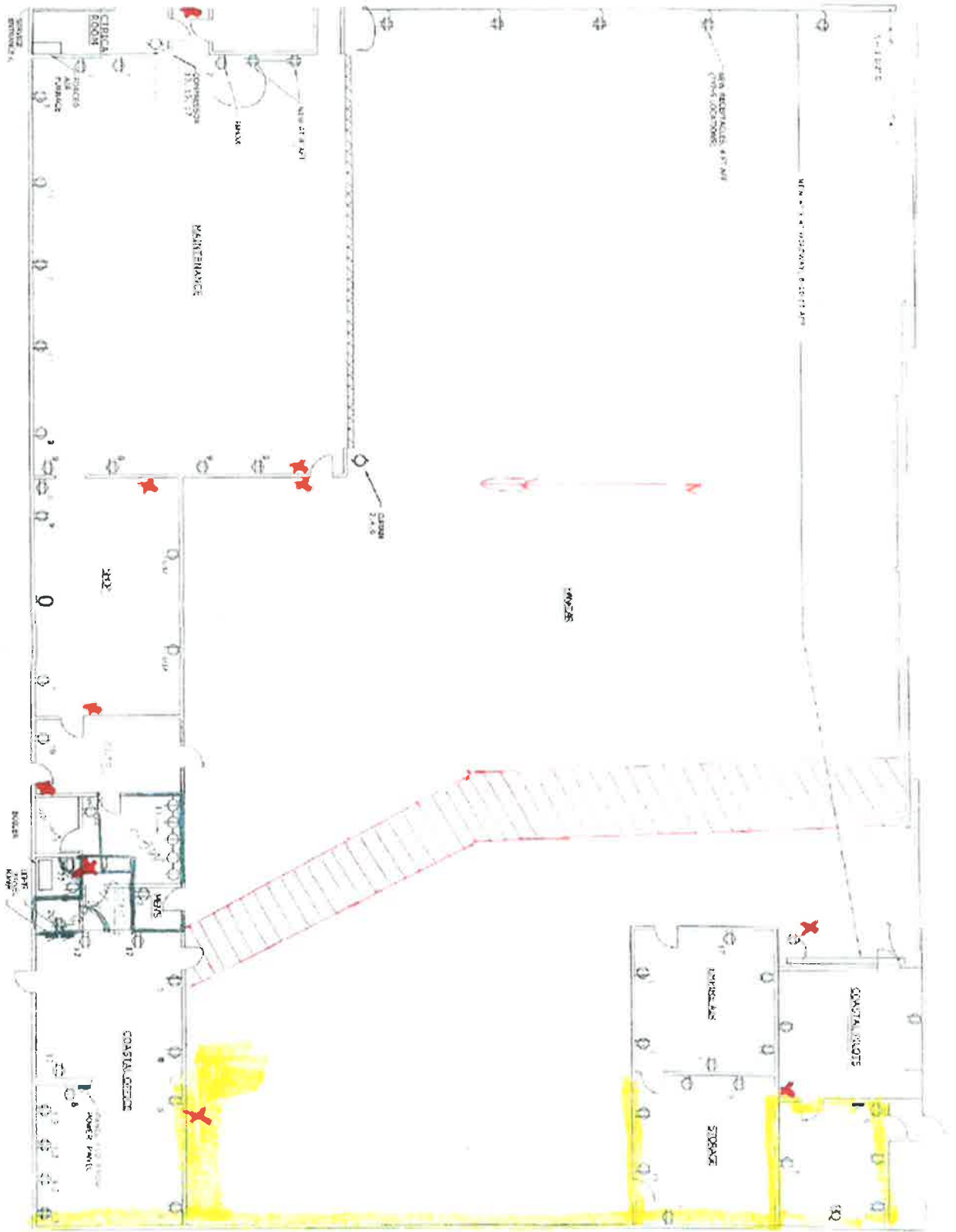
Date: 7-24/2020  
By: Aral Loken  
Aral Loken  
Owner

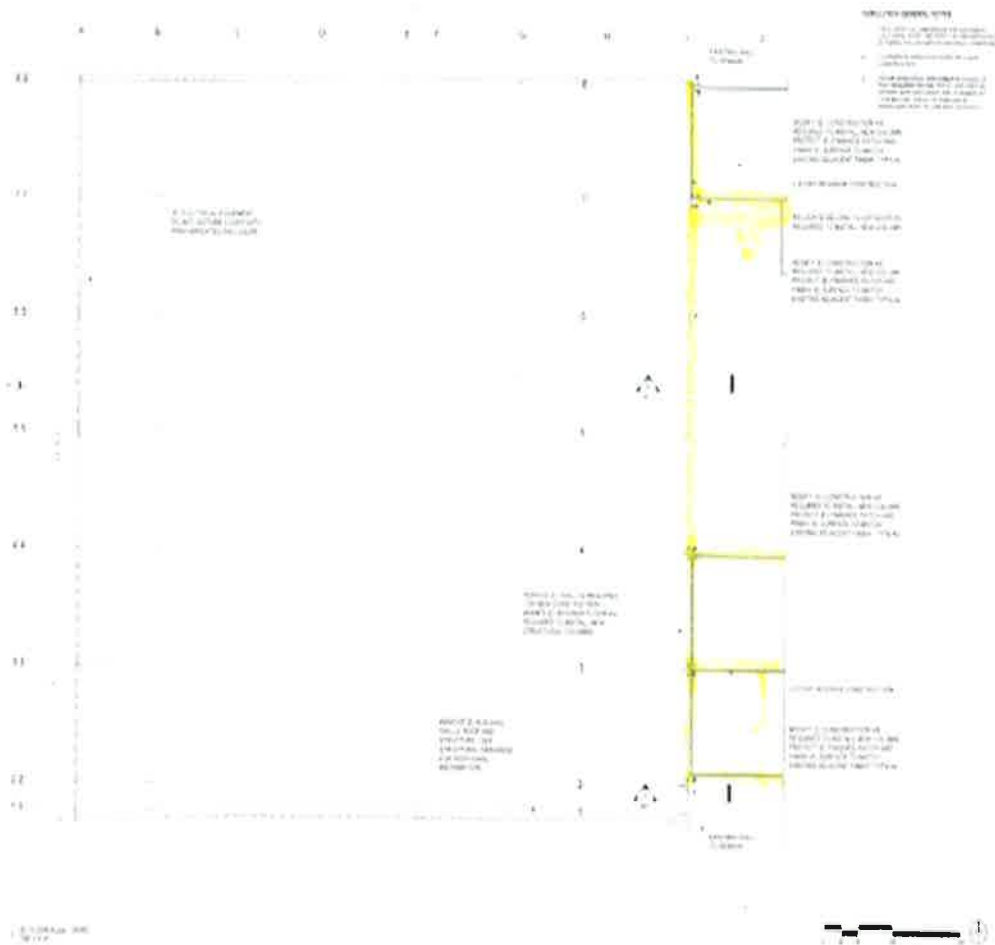
**COASTAL HELICOPTERS INC.**

Date: 7/24/2020  
By: Mike Wilson  
Mike Wilson, General Manager

Attachment 1







4816-9125-1137v.4 0113802-000001  
 4816-9125-1137v.7 0113802-000001  
 4816-9125-1137v.8 0113802-000001

## SUMMARY – 01 1000

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

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

#### 1.2 SUMMARY

- A. Section Includes:
  1. Project information.
  2. Work covered by Contract Documents.
  3. Access to site.
  4. Coordination with occupants.
  5. Work restrictions.
  6. Specification and drawing conventions.

#### 1.3 PROJECT INFORMATION

- A. Project Identification: JNU Sand Shed Demolition.
  1. Project Location: Juneau International Airport, 8999 Yandukin Drive, Juneau, AK
  2. Owner's Representative: to be designated by Patricia Wahto, Airport Manager
- B. Architect: ECI, Inc., 3909 Arctic Blvd, Suite 103, Anchorage, AK 99503, (907) 561-5543. The following design professionals have also prepared designated portions of the Contract Documents:
  1. DOWL Engineers
  2. PND Engineers

#### 1.4 WORK COVERED BY CONTRACT DOCUMENTS

- A. The Work of project is defined by the Contract Documents and generally consists of the following:
  1. Demolition of the old Sand Shed steel framed building of approximately 18,000 sf, and construction of a new wall to maintain structural integrity of adjacent building.
  2. Perimeter fencing to meet JNU Airport security requirements.

#### 1.5 ACCESS TO SITE

- A. General: Contractor shall have limited use of Project site for construction operations as indicated on documents and as indicated by requirements of this section.
- B. Use of Site: Limit use of Project site to areas indicated. Do not disturb portions of project site beyond areas in which the Work is indicated.
  1. Limit use of the site for staging, storage, handling of debris and construction materials, deliveries, etc. to the areas indicated on the drawings.
  2. Employee private vehicles are to be parked in specified areas only.
  3. Keep driveways, gates and entrances and exits serving premises and the adjacent Channel Flying building clear and available at all times. Do not use these areas for parking or storage of materials.
    - a. Schedule deliveries to minimize use of driveways and entrances by construction operations.
    - b. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.
  4. Install temporary fencing and/or barricades to maintain airport security as described in the Contractor's approved Safety Plan Compliance Document.
- C. Security: Maintain airport security requirements throughout the Work.

#### 1.6 COORDINATION WITH OCCUPANTS

- A. Owner and airport tenants will utilize areas of the airport around the project site throughout the construction period. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner/tenant usage.
  1. Notify Owner not less than 48 hours in advance of activities that will affect Owner's/tenant's operations.

## SUMMARY – 01 1000

- B. Access to the adjacent property is through a private property use agreement for purposes of completing the Work. Comply with all requirements of the agreement throughout the Work.

### 1.7 WORK RESTRICTIONS

- A. Work Restrictions, General: Comply with restrictions on construction operations.
  - 1. Comply with limitations on use of public streets by authorities having jurisdiction.
  - 2. Work on site shall not commence until Owner has provided written approval of the Safety Plan Compliance Document in accordance with FAA AC 150/5370-2F.
- B. On-Site Work Hours:
  - 1. There are no limits to work hours within applicable noise ordinances of the City and Borough of Juneau.
- C. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after providing temporary utility services according to requirements indicated:
  - 1. Notify Owner not less than two days in advance of proposed utility interruptions.
  - 2. Obtain Owner's written permission before proceeding with utility interruptions.
- D. No Smoking and Controlled Substances: Use of tobacco products and other controlled substances within the project area is not permitted.
- E. Employee Identification: Contractor personnel working in secure areas of Project site shall wear identification badges at all times. See Section 01 5200, Security for additional requirements.

### 1.8 SPECIFICATION AND DRAWING CONVENTIONS

- A. The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
  - 1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
  - 2. Specification requirements are to be performed by Contractor unless specifically stated otherwise.
- B. Requirements for materials and products identified on drawings are described in the specifications. One or more of the following are used on drawings to identify materials and products:
  - 1. Materials and products are identified by the typical generic terms used in the individual Specifications sections.
  - 2. Materials and products are identified by abbreviations published as part of the U.S. National CAD Standard and/or scheduled on drawings.

**PART 2 - PRODUCTS (Not Used)**

**PART 3 - EXECUTION (Not Used)**

**END OF SECTION 01 1000**

## SECTION 01 2300 - ALTERNATES

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

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

#### 1.2 SUMMARY

- A. Section includes administrative and procedural requirements for alternates.

#### 1.3 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the Bidding Requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
  - 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
  - 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

#### 1.4 PROCEDURES

- A. Coordination: Modify or adjust affected adjacent work as necessary to completely integrate Work of the alternate into Project.
  - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of the alternate.
- B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to alternates.
- C. Execute accepted alternates under the same conditions as other work of the Contract.
- D. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the Work described under each alternate.

## **SECTION 01 2300 - ALTERNATES**

### **PART 2 - PRODUCTS (Not Used)**

### **PART 3 - EXECUTION**

#### **3.1 SCHEDULE OF ALTERNATES**

- A. Alternate No. 1: In lieu of Base Bid secure perimeter fence, provide secure perimeter fence of approximately 281 lf in configuration shown on drawings.

**END OF SECTION 01 2300**

## **SUBSTITUTION PROCEDURES – 01 2500**

### **PART 1 - GENERAL**

#### **1.1 RELATED DOCUMENTS**

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

#### **1.2 SUMMARY**

- A. Section includes administrative and procedural requirements for substitutions.
- B. Related Requirements:
  - 1. Section 01 6000 "Product Requirements" for requirements for submitting comparable product submittals for products by listed manufacturers.

#### **1.3 DEFINITIONS**

- A. Substitutions: Changes in products, materials, equipment, and methods of construction from those required by the Contract Documents and proposed by Contractor.
  - 1. Substitutions for Cause: Changes proposed by Contractor that are required due to changed project conditions, such as unavailability of product, regulatory changes, or unavailability of required warranty terms.
  - 2. Substitutions for Convenience: Changes proposed by Contractor or Owner that are not required in order to meet other project requirements but may offer advantage to Contractor or Owner.

#### **1.4 ACTION SUBMITTALS**

- A. Substitution Requests: Submit electronic submission directed to parties identified by the Owner. Identify product, fabrication, or installation method to be replaced. Include Specification Section number, title and drawing numbers.
  - 1. Substitution Request Form: Use form approved by the Owner.
  - 2. Documentation: Show compliance with requirements for substitutions and the following, as applicable:
    - a. Statement indicating why specified product or fabrication or installation cannot be provided.
    - b. Coordination information, including a list of changes or revisions needed to other parts of the Work and to construction performed by Owner and separate contractors that will be necessary to accommodate proposed substitution.
    - c. Detailed comparison of significant qualities of proposed substitution with those of the Work specified. Include annotated copy of applicable specification section. Significant qualities may include attributes such as performance, weight, size, durability, visual effect, sustainable design characteristics, warranties, and specific features and requirements indicated. Indicate deviations, if any, from the Work specified.
    - d. Product Data, including drawings and descriptions of products and fabrication and installation procedures.
    - e. Samples, where applicable or requested.
    - f. Certificates and qualification data, where applicable or requested.
    - g. List of similar installations for completed projects with project names and addresses and names and addresses of architects and owners.
    - h. Material test reports from a qualified testing agency indicating and interpreting test results for compliance with requirements indicated.
    - i. Research reports evidencing compliance with building code in effect for project.
    - j. Detailed comparison of Contractor's construction schedule using proposed substitution with products specified for the Work, including effect on the overall contract time. If specified product or method of construction cannot be provided within the contract time, include letter from manufacturer, on manufacturer's letterhead, stating date of receipt of purchase order, lack of availability, or delays in delivery.
    - k. Cost information, including a proposal of change, if any, in the contract sum.
    - l. Contractor's certification that proposed substitution complies with requirements in the Contract Documents except as indicated in substitution request, is compatible with related materials, and is appropriate for applications indicated.

## **SUBSTITUTION PROCEDURES – 01 2500**

- m. Contractor's waiver of rights to additional payment or time that may subsequently become necessary because of failure of proposed substitution to produce indicated results.
- 3. Owner's Action: If necessary, Owner will request additional information or documentation for evaluation within 7 days of receipt of a request for substitution. Owner will notify Contractor of acceptance or rejection of proposed substitution within 15 days of receipt of request, or 7 days of receipt of additional information or documentation, whichever is later.
  - a. Forms of Acceptance: Construction Change Directive and Change Order in accordance with the General Conditions.
  - b. Use product specified if Owner does not issue a decision on use of a proposed substitution within time allocated.

### **1.5 QUALITY ASSURANCE**

- A. Investigate and document compatibility of proposed substitution with related products and materials. Engage a qualified testing agency to perform compatibility tests recommended by manufacturers.

### **1.6 COORDINATION**

- A. Revise or adjust affected Work as necessary to integrate work of the approved substitutions.

## **PART 2 - PRODUCTS**

### **2.1 SUBSTITUTIONS**

- A. Substitutions for Cause: Submit requests for substitution immediately on discovery of need for change, but not later than 15 days prior to time required for preparation and review of related submittals.
  - 1. Conditions: Owner will consider Contractor's request for substitution when the following conditions are satisfied. If the following conditions are not satisfied, Owner will return requests without action, except to record noncompliance with these requirements:
    - a. Requested substitution is consistent with the Contract Documents and will produce indicated results.
    - b. Substitution request is fully documented and properly submitted.
    - c. Requested substitution will not adversely affect Contractor's construction schedule.
    - d. Requested substitution has received necessary approvals of authorities having jurisdiction.
    - e. Requested substitution is compatible with other portions of the Work.
    - f. Requested substitution has been coordinated with other portions of the Work.
    - g. Requested substitution provides specified warranty.
    - h. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.
- B. Substitutions for Convenience: Submit requests for substitution not later than 15 days following the Notice to Proceed.

## **PART 3 - EXECUTION (Not Used)**

**END OF SECTION 01 2500**



## PROJECT MANAGEMENT AND COORDINATION – 01 3100

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

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

#### 1.2 SUMMARY

- A. Section includes administrative provisions for coordinating construction operations on Project including, but not limited to, the following:
  1. General coordination.
  2. RFIs.
  3. ASIs.
  4. Project meetings.

#### 1.3 DEFINITIONS

- A. RFI: Request for Information. Request from Contractor seeking information required by, or clarifications of the Contract Documents.  
ASI: Architect's Supplemental Information. Issued by Owner or Architect to provide information or clarifications of the Contract Documents.

#### 1.4 INFORMATIONAL SUBMITTALS

- A. Key Personnel Names: Prior to the Pre-Construction conference, or within ten days of receipt of contract award (whichever occurs first), submit a list of key personnel assignments, including superintendent and other personnel in attendance at project site. Identify individuals and their duties and responsibilities; list addresses and cellular telephone numbers and e-mail addresses. Provide names, addresses, and telephone numbers of individuals assigned as alternates in the absence of individuals assigned to project.
  1. Post copies of list in field office. Keep list current at all times.

#### 1.5 GENERAL COORDINATION PROCEDURES

- A. Coordination: Coordinate construction operations included in different sections of the specifications to ensure efficient and orderly installation of each part of the Work. Coordinate construction operations included in different sections that depend on each other for proper installation, connection, and operation.
  1. Schedule construction operations in sequence required to obtain the best results where installation or deconstruction of one part of the Work depends on installation or deconstruction of other components before or after its own installation or deconstruction.
  2. Make adequate provisions to accommodate items scheduled for later installation.
- B. Prepare memoranda for distribution to each party involved, outlining special procedures required for coordination. Include such items as required notices, reports, and list of attendees at meetings.
- C. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other demolition/construction activities to avoid conflicts and to ensure orderly progress of the Work. Such administrative activities include, but are not limited to:
  1. Preparation of Contractor's construction schedule.
  2. Preparation of the schedule of values.
  3. Installation and removal of temporary facilities and controls.
  4. Delivery and processing of submittals.
  5. Progress meetings.
  6. Pre-installation or pre-demolition conferences.
  7. Project closeout activities.

#### 1.6 COORDINATION DRAWINGS

- A. Coordination Drawings: Prepare coordination drawings according to requirements in individual sections, and additionally where installation is not completely indicated on shop drawings, where limited space availability necessitates coordination, or if coordination is required to facilitate integration of products and materials fabricated or installed by more than one entity.
- B. Coordination Drawing Organization: Organize coordination drawings as follows:

## PROJECT MANAGEMENT AND COORDINATION – 01 3100

1. Review: Owner will review coordination drawings to confirm that in general the Work is being coordinated, but not for the details of the coordination, which are Contractor's responsibility.
2. Owner will furnish Contractor one set of digital data files of drawings for use in preparing coordination digital data files. Architect/Engineer makes no representations as to the accuracy or completeness of digital data files as they relate to drawings.

### 1.7 REQUEST FOR INFORMATION (RFI)

- A. Immediately on discovery of the need for additional information, clarification, or interpretation of the Contract Documents, Contractor shall prepare and submit an RFI in the form specified by the Owner.
  1. Owner will return without response those RFIs submitted to Architect/Engineer by other entities controlled by Contractor.
  2. Coordinate and submit RFIs in a prompt manner so as to avoid delays in Contractor's Work or work of subcontractors.
- B. Content of the RFI: Include a detailed, legible description of item needing information or interpretation including the specification section, drawing number and detail references, and field dimensions and conditions, as appropriate. Provide Contractor's suggested resolution.
- C. Owner's Action: Owner and Architect/Engineer (as needed) will review each RFI, determine action required, and respond. Allow seven working days for Owner's response for each RFI.
  1. Owner's action may include a request for additional information, in which case the time for response will date from time of receipt by Owner of additional information.
  2. Action on RFIs that may result in a change to the contract time or the contract sum may be eligible for Contractor to submit a cost/time proposal.
- D. RFI Log: Prepare, maintain, and submit a tabular log of RFIs organized by the RFI number and submit to Owner periodically or as requested by Owner.
- E. On receipt of Owner's action, update the RFI log and immediately distribute the RFI response to affected parties. Review response and notify Owner within seven days if Contractor disagrees with response.

### 1.8 PROJECT MEETINGS

- A. General: Attend and participate in project meetings at project site unless otherwise indicated.
  1. Inform participants and others involved, and individuals whose presence is required, of date and time of each meeting.
  2. Owner will prepare and distribute the meeting agenda. Contractor may request agenda items to the Owner.
  3. Owner record significant discussions and agreements achieved. Distribute the meeting minutes to everyone concerned within three days of receipt the meeting minutes.
- B. Preconstruction Conference: Owner will schedule and conduct a preconstruction conference before starting construction, at a time convenient to Owner and Contractor, but no later than 15 days after execution of the Agreement.
  1. Attendees: Owner's Representative, Architect and its consultants; Contractor and its superintendent; major subcontractors; and other concerned parties shall attend the conference.
  2. Agenda: Discuss items of significance that could affect progress, including the following:
    - a. Security, responsibilities and personnel assignments.
    - b. Emergency procedures and first aid.
    - c. Tentative construction schedule.
    - d. Critical work sequencing and long lead items.
    - e. Designation of key personnel and their duties.
    - f. Lines of communications.
    - g. Procedures for processing field decisions and Change Orders.
    - h. Procedures for RFIs.
    - i. Procedures for testing and inspecting.
    - j. Procedures for processing Applications for Payment.
    - k. Submittal procedures.

## PROJECT MANAGEMENT AND COORDINATION – 01 3100

- l. Preparation of Record Documents.
  - m. Use of the premises, including access to adjacent private property.
  - n. Work restrictions and working hours.
  - o. Owner's occupancy requirements.
  - p. Responsibility for temporary facilities and controls.
  - q. Procedures for moisture and mold control.
  - r. Procedures for disruptions and shutdowns.
  - s. Construction waste management and recycling.
  - t. Office, work, and storage areas, including worker parking availability.
  - u. Equipment deliveries and priorities.
  - v. Progress cleaning.
3. Minutes: Owner will record discussions and distribute meeting minutes.
- C. Pre-installation Conferences: Conduct a pre-installation conference before each construction activity when required by other sections and when required for coordination with other construction. For purposes of this project, the pre-demolition conference is considered a pre-installation conference.
1. Attendees: Owner, Architect/Engineer, Installer and representatives of manufacturers and fabricators involved in or affected by the installation and its coordination or integration with other materials and installations that have preceded or will follow, shall attend the meeting.
  2. Agenda: Review progress of other construction activities and preparations for the particular activity under consideration, including requirements for the following:
    - a. Contract Documents.
    - b. Related RFIs.
    - c. Related Change Orders.
    - d. Deliveries.
    - e. Submittals.
    - f. Review of mockups.
    - g. Possible conflicts.
    - h. Compatibility requirements.
    - i. Time schedules.
    - j. Weather limitations.
    - k. Manufacturer's written instructions.
    - l. Warranty requirements.
    - m. Compatibility of materials.
    - n. Acceptability of substrates.
    - o. Temporary facilities and controls.
    - p. Space and access limitations.
    - q. Regulations of authorities having jurisdiction.
    - r. Testing and inspecting requirements.
    - s. Installation procedures.
    - t. Coordination with other work.
    - u. Required performance results.
    - v. Protection of adjacent work.
    - w. Protection of construction and personnel.
  3. Record significant conference discussions, agreements, and disagreements, including required corrective measures and actions.
  4. Distribute minutes of the meeting to each party present and to other parties requiring information.
  5. Do not proceed with installation if the conference cannot be successfully concluded. Initiate whatever actions are necessary to resolve impediments to performance of the Work and reconvene the conference at earliest feasible date.
- D. Project Closeout Conference: Schedule and conduct a project closeout conference, at a time convenient to Owner and Architect, but no later than seven days prior to the scheduled date of Substantial Completion.
1. Conduct the conference to review requirements and responsibilities related to Project closeout.
  2. Attendees: Authorized representatives of Owner, Architect/Engineer and their consultants; Contractor and its superintendent; and other concerned parties shall attend the meeting.
  3. Agenda: Discuss items of significance that could affect Project closeout, including the following:

## PROJECT MANAGEMENT AND COORDINATION – 01 3100

- a. Preparation of Record Documents.
  - b. Procedures required prior to inspections leading up to Substantial Completion and final inspection for acceptance.
  - c. Submittal of written warranties.
  - d. Requirements for preparing operations and maintenance data.
  - e. Requirements for delivery of material samples, attic stock, and spare parts.
  - f. Requirements for demonstration and training.
  - g. Preparation of Contractor's punch list.
  - h. Procedures for processing Applications for final payment.
  - i. Responsibility for removing temporary facilities and controls.
  - j. Required contract close-out documents.
4. Minutes: Owner will record and distribute meeting minutes.
- E. Progress Meetings: Owner will conduct progress meetings at regular intervals.
1. Attendees: In addition to representatives of Owner, each contractor, subcontractor, supplier, and other entity concerned with current progress or involved in planning, coordination, or performance of future activities shall be represented at these meetings. All participants at the meeting shall be familiar with project and authorized to conclude matters relating to the Work.
  2. Agenda: Approve minutes of previous progress meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to status of Project.
    - a. Contractor's Construction Schedule: Review progress since the last meeting. Determine whether each activity is on time, ahead of schedule, or behind schedule, in relation to Contractor's construction schedule. Determine how construction behind schedule will be expedited; secure commitments from parties involved to do so.
      - 1) Review schedule for activities expected to be accomplished during the coming two week period.
    - b. Review present and future needs of each entity present, including the following:
      - 1) Airport safety and security issues.
      - 2) Coordination and interface requirements.
      - 3) Sequence of operations.
      - 4) Status of submittals.
      - 5) Off-site fabrication.
      - 6) Access and site use, including deliveries.
      - 7) Progress cleaning.
      - 8) Quality and work standards, field observations.
      - 9) Status of correction of deficient items.
      - 10) Status of RFIs.
      - 11) Status of Proposal Requests.
      - 12) Status of Change Orders.
      - 13) Pending claims and disputes.
  3. Minutes: Owner will record and distribute the meeting minutes to each party present and to parties requiring information.
    - a. Schedule Updating: Revise Contractor's construction schedule after each progress meeting where revisions to the schedule have been made or recognized. Issue revised schedule concurrently with the report of each meeting.

**PART 2 - PRODUCTS (Not Used)**

**PART 3 - EXECUTION (Not Used)**

**END OF SECTION 01 3100**

## CONSTRUCTION PROGRESS DOCUMENTATION – 01 3200

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

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

#### 1.2 SUMMARY

- A. Section includes administrative and procedural requirements for documenting the progress of construction during performance of the Work, including the following:
  1. Start-up construction schedule.
  2. Contractor's construction schedule.
  3. Construction reports.

#### 1.3 DEFINITIONS

- A. Activity: A discrete part of a project that can be identified for planning, scheduling, monitoring, and controlling the construction project. Activities included in a construction schedule consume time and resources.
  1. Critical Activity: An activity on the critical path that must start and finish on the planned early start and finish times.
  2. Predecessor Activity: An activity that precedes another activity in the network.
  3. Successor Activity: An activity that follows another activity in the network.
- B. CPM: Critical path method, which is a method of planning and scheduling a construction project where activities are arranged based on activity relationships. Network calculations determine when activities can be performed and the critical path of the project.
- C. Critical Path: The longest connected chain of interdependent activities through the network schedule that establishes the minimum overall project duration and contains no float.
- D. Event: The starting or ending point of an activity.
- E. Float: The measure of leeway in starting and completing an activity.
  1. Float time is not for the exclusive use or benefit of either Owner or Contractor, but is a jointly owned, expiring project resource available to both parties as needed to meet schedule milestones and Contract completion date.
  2. Free float is the amount of time an activity can be delayed without adversely affecting the early start of the successor activity.
  3. Total float is the measure of leeway in starting or completing an activity without adversely affecting the planned project completion date.
- F. Resource Loading: The allocation of manpower and equipment necessary for the completion of an activity as scheduled.

#### 1.4 INFORMATIONAL SUBMITTALS

- A. Format for Submittals: Submit schedules in electronic format using Microsoft Project or other software approved by the Owner.
- B. Start-up construction schedule.
  1. Approval of cost-loaded start-up construction schedule will not constitute approval of schedule of values for cost-loaded activities.
- C. Start-up Network Diagram: Of size required to display entire network for entire construction period. Show logic ties for activities.
- D. Contractor's Construction Schedule: Initial schedule, of size required to display entire schedule for entire construction period.

## CONSTRUCTION PROGRESS DOCUMENTATION – 01 3200

- E. Construction Reports: Submit at weekly intervals using Microsoft Word for narrative and Microsoft Project for schedules, or other format approved by the Owner.
- F. Special Reports: Submit at time of unusual event in format approved by the Owner.

### 1.5 COORDINATION

- A. Coordinate Contractor's construction schedule with the Schedule of Values, subcontracts, submittal schedule, progress reports, payment requests, and other schedules and reports.
  - 1. Secure time commitments for performing critical elements of the Work from entities involved; monitor and maintain commitments throughout the Work.
  - 2. Coordinate each construction activity in the network with other activities and schedule them in proper sequence.

## PART 2 - PRODUCTS

### 2.1 CONTRACTOR'S CONSTRUCTION SCHEDULE, GENERAL

- A. Time Frame: Extend schedule from Notice to Proceed to the date of final completion.
- B. Activities: Treat each phase or separate area as a separate numbered activity for each principal element of the Work. Comply with the following:
  - 1. Define activities so no activity is longer than 20 days, unless specifically allowed by Owner.
  - 2. Include procurement activities for long lead items and major items, requiring a cycle of more than 30 days as separate activities in schedule. Procurement cycle activities include, but are not limited to shop drawing development, submittals, approvals, purchasing, fabrication, and delivery.
  - 3. Include review and resubmittal times.
  - 4. Include not less than 5 days for startup, testing, and Owner training.
  - 5. Indicate completion at least 5 days in advance of date established for Substantial Completion, and allow time for Owner's procedures necessary for certification of Substantial Completion.
  - 6. Include not more than 30 days for punch list and final completion (combined).
- C. Milestones: Include milestones indicated in the contract documents in schedule, including, but not limited to the Notice to Proceed, Start of Work on Site, Substantial Completions, and Final Completion.
- D. Upcoming Work Summary: Include in the weekly summary report activities scheduled to occur for at least 2 weeks ahead of Work. Summarize the following issues:
  - 1. Unresolved issues.
  - 2. Unanswered RFIs.
  - 3. Rejected or unreturned submittals.
  - 4. Notations on returned submittals.
- E. Recovery Schedule: When periodic update indicates the Work is 5 or more calendar days behind the current approved schedule, submit a separate recovery schedule indicating means by which Contractor intends to regain compliance with the schedule. Indicate changes to working hours, working days, crew sizes, and equipment required to achieve compliance, and indicate date by which recovery will be accomplished.

### 2.2 CONTRACTOR'S CONSTRUCTION SCHEDULE (GANTT CHART)

- A. Submit a preliminary Gantt-Chart Schedule at the Preconstruction conference, and a subsequent comprehensive, fully developed, horizontal Gantt-chart-type, Contractor's construction schedule within 7 days of the Notice to Proceed that includes materials or components that require more than 30 days from order to be received on site.

### 2.3 REPORTS

- A. Prepare a weekly construction report recording the following information and events at project site:
  - 1. List of subcontractors at project site.
  - 2. Approximate count of personnel at project site, recorded daily.
  - 3. Equipment at project site.

## CONSTRUCTION PROGRESS DOCUMENTATION – 01 3200

4. Material deliveries.
5. Accidents and emergency procedures initiated.
6. Meetings and significant decisions.
7. Unusual events such as stoppages, delays, shortages, and losses.
8. Orders and requests of authorities having jurisdiction.
9. Request for Proposals accepted and implemented.
10. Construction Change Directives received and implemented.
11. Services connected and disconnected.
12. Equipment or system tests and startups.

### **PART 3 - EXECUTION**

#### **3.1 CONTRACTOR'S CONSTRUCTION SCHEDULE**

- A. Contractor's Construction Schedule Updating: At monthly intervals in conjunction with Request for Payment, or at other times as requested by the Owner, update schedule to reflect actual construction progress and activities.
  1. Revise schedule immediately after each progress meeting or other activity where revisions have been recognized or made.
  2. Include a report with updated schedule that indicates every change, including, but not limited to, changes in logic, durations, actual starts and finishes, and activity durations.
  3. As the Work progresses, indicate final completion percentage for each activity.
- B. Distribution: Distribute copies of approved schedule to Architect/Engineer, Owner, sub-contractors, and other parties identified by Contractor with schedule responsibility.
  1. Post copies in Project meeting room.
  2. When revisions are made, distribute updated schedules to the same parties and post in the same locations. Delete parties from distribution when they have completed their assigned portion of the Work and are no longer involved in performance of construction activities.

**END OF SECTION 01 3200**

## **SCHEDULE OF VALUES – 01 3250**

### **PART 1 - GENERAL**

#### **1.1 RELATED DOCUMENTS**

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

#### **1.2 PREPARATION OF SCHEDULE OF VALUES**

- A. The Schedule of Values shall be developed in close association with the Construction Schedule activities and logic.
  - 1. The Contractor shall submit a preliminary Schedule of Values for the major components of the Work prior to the Preconstruction Conference. The listing shall include, at a minimum, the proposed value for the major Work components within each phase of the Work.
  - 2. The Contractor and Owner shall meet and jointly review the preliminary Schedule of Values and make any adjustments in value allocations necessary, if in the opinion of the Owner, allocation adjustments are necessary to establish fair and reasonable allocation of values for the major Work components. Front end loading will not be permitted. The Owner may require inclusion of other major Work components not included in the above listing, if, in the opinion of the Owner, such additional components are appropriate. This review and any necessary revisions shall be completed prior to the Pre-Construction Conference.
  - 3. Once agreed upon, the Schedule of Values shall become the basis for Progress Payments throughout the project. The Progress Payments shall be submitted on a form acceptable to the Owner.

#### **1.3 CHANGES TO THE SCHEDULE OF VALUES**

- 1. The Contractor and Owner may agree to make adjustments to the original Schedule of Values because of inequities discovered in the original detailed Schedule of Values or because of additional Work added to the contract via Change Order.
- 2. The Schedule of Values shall be updated with each request for Payment.

### **PART 2 - PRODUCTS (Not Used)**

### **PART 3 - EXECUTION (Not Used)**

**END OF SECTION 01 3250**



## **SUBMITTAL PROCEDURES – 01 3300**

### **PART 1 - GENERAL**

#### **1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 specification sections, apply to this Section.
- B. Additional submittal requirements may be included in technical specification sections.

#### **1.2 SUMMARY**

- A. Section includes requirements for the submittal schedule and administrative and procedural requirements for submitting shop drawings, product data, samples, and other submittals.

#### **1.3 DEFINITIONS**

- A. Action Submittals: Written and graphic information and physical samples that require Architect/Engineer's responsive action. Action submittals are those submittals indicated in individual specification sections as "action submittals."
- B. Informational Submittals: Written and graphic information and physical samples that do not require Architect/Engineer's responsive action. Submittals may be rejected for not complying with requirements. Informational submittals are those submittals indicated in individual specification sections as "informational submittals."

#### **1.4 SUBMITTALS SCHEDULE**

- A. Submit a schedule of action and informational submittals, arranged in chronological order by dates required by construction schedule. Include time required for review, ordering, manufacturing, fabrication, and delivery when establishing dates. Include additional time required for making corrections or revisions to submittals noted by Architect and additional time for handling and reviewing submittals required by those corrections.
  - 1. Coordinate submittal schedule with list of subcontracts, the schedule of values, and Contractor's construction schedule.
  - 2. Submit initial submittal schedule concurrently with startup construction schedule. Include submittals required during the first 60 days of construction. List those submittals required to maintain orderly progress of the Work and those required early because of long lead time for manufacture or fabrication.
  - 3. Submit final schedule concurrently with the first complete submittal of Contractor's construction schedule.

#### **1.5 SUBMITTAL ADMINISTRATIVE REQUIREMENTS**

- A. Owner will furnish Contractor one set of digital data drawing files of the Contract Drawings for use in preparing shop drawings.
  - 1. Architect/Engineer makes no representations as to the accuracy or completeness of digital data and drawing files as they relate to the Contract Drawings.
- B. Coordination: Coordinate preparation and processing of submittals with construction activities.
  - 1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
  - 2. Submit all submittal items required for each specification section concurrently unless partial submittals for portions of the Work are indicated on approved submittal schedule.
  - 3. Submit action submittals and informational submittals required by the same specification section as separate packages under separate transmittals.
  - 4. Coordinate transmittal of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination.
    - a. Owner reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
- C. Processing Time: Allow time for submittal review, including time for resubmittals, as follows. Time for review shall commence on Architect's receipt of submittal. No extension of the Contract Time will be

## **SUBMITTAL PROCEDURES – 01 3300**

authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.

1. Allow 15 days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. Architect will advise Contractor when a submittal being processed must be delayed for coordination.
  2. If intermediate submittal is necessary, process it in same manner as initial submittal.
  3. Allow 15 days for review of each resubmittal.
- D. Electronic Submittals: Incorporate the following information in each electronic submittal file:
1. Assemble complete submittal package into a single indexed file incorporating submittal requirements of a single Specification Section and transmittal form with links enabling navigation to each item.
  2. Name file with submittal number or other unique identifier, including revision identifier.
  3. Provide means for insertion to permanently record Contractor's review and approval markings and action taken by Architect/Engineer.
  4. Use electronic submittal form acceptable to Owner, containing the following information:
    - a. Project name.
    - b. Date of submission.
    - c. Name of Contractor.
    - d. Names of subcontractor, manufacturer, and supplier.
    - e. Submittal purpose and description.
    - f. Specification section number and title.
    - g. Drawing number and detail references, as appropriate.
    - h. Location(s) where product is to be installed, as appropriate.
    - i. Related physical samples submitted directly.
    - j. Indication of full or partial submittal.
    - k. Transmittal number.
    - l. Other necessary identification.
- E. Identify options requiring selection by Owner.
- F. On an attached separate sheet, prepared on Contractor's letterhead, record relevant information, requests for data, revisions other than those requested by Architect/Engineer on previous submittals, and deviations from requirements in the Contract Documents, including minor variations and limitations. Include same identification information as related submittal.
- G. Make resubmittals in same form and number of copies as initial submittal.
1. Note date and content of previous submittal.
  2. Note date and content of revision in label or title block and clearly indicate extent of revision.
  3. Resubmit submittals until they are marked with approval notation from Architect/Engineer.
- H. Furnish copies of final submittals to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for performance of construction activities. Show distribution on transmittal forms.
- I. Retain complete copies of submittals on project site. Use only final action submittals that are marked with approval notation from Architect/Engineer's action stamp.

## **PART 2 - PRODUCTS**

### **2.1 SUBMITTAL PROCEDURES**

- A. General Submittal Procedure Requirements: Prepare and submit submittals required by individual specification sections. Types of submittals are indicated in individual specification sections.
1. Submit electronic submittals via email as PDF electronic files.
    - a. Owner will return annotated file. Annotate and retain one copy of file as an electronic project record document file.

## **SUBMITTAL PROCEDURES – 01 3300**

- B. Product Data: Collect information into a single submittal for each element of construction and type of product or equipment.
  - 1. If information must be specially prepared for submittal because standard published data are not suitable for use, submit as shop drawings, not as product data.
  - 2. Mark each copy of each submittal to show which products and options are applicable.
  - 3. Include the following information, as applicable:
    - a. Manufacturer's product specifications.
    - b. Color charts.
    - c. Statement of compliance with specified referenced standards.
    - d. Testing by recognized testing agency, with labels and seals noted.
    - e. Notation of coordination requirements.
    - f. Availability and delivery time information.
  - 4. Submit Product Data before or concurrent with samples.
  
- C. Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data, unless submittal based on Architect/Engineer's digital data drawing files is otherwise permitted.
  - 1. Fully illustrate requirements in the Contract Documents. Include the following information, as applicable:
    - a. Identification of products.
    - b. Schedules.
    - c. Compliance with specified standards.
    - d. Notation of coordination requirements.
    - e. Notation of dimensions established by field measurement.
    - f. Relationship and attachment to adjoining construction clearly indicated.
  - 2. Except for templates, patterns, and similar full-size drawings, submit shop drawings on PDF sheet format at least 8.5x11.
  
- D. Samples: Submit Samples for review of kind, color, pattern, and texture for a check of these characteristics with other elements and for a comparison of these characteristics between submittal and actual component as delivered and installed.
  - 1. Transmit Samples that contain multiple, related components such as accessories together in one submittal package.
  - 2. Identification: Attach label on unexposed side of samples that includes the following:
    - a. Generic description of sample.
    - b. Product name and name of manufacturer.
    - c. Number and title of applicable specification section.
    - d. Specification paragraph number and generic name of each item.
  
- E. Application for Payment and Schedule of Values: Comply with requirements specified in the General Conditions and other Division 1 sections.
  
- F. Closeout Submittals and Maintenance Material Submittals: Comply with requirements specified in Section 01 7700 "Closeout Procedures."

### **PART 3 - EXECUTION**

#### **3.1 CONTRACTOR'S REVIEW**

- A. Action and Informational Submittals: Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Owner.
  
- B. Project Closeout and Maintenance Material Submittals: See requirements in Section 01 7700 "Closeout Procedures."

### **SUBMITTAL PROCEDURES – 01 3300**

- C. Identify each submittal with a uniform, approval stamp. Include project name and location, submittal number, specification section title and number, name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.
- 3.2 OWNER'S ACTION
- A. Owner will review each Action submittal, make marks to indicate corrections or revisions required, and return it. Owner may forward submittal to Architect/Engineer who will stamp each submittal with an action stamp and will mark stamp appropriately to indicate action.
  - B. Incomplete submittals are unacceptable, will be considered nonresponsive, and will be returned for resubmittal without review.

**END OF SECTION 01 3300**

## QUALITY REQUIREMENTS – 01 4000

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 specification sections, apply to this section.

#### 1.2 SUMMARY

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

#### 1.3 DEFINITIONS

- A. Quality-Assurance Services: Activities, actions, and procedures performed before and during execution of the Work to guard against defects and deficiencies and substantiate that proposed construction will comply with requirements.
- B. Quality-Control Services: Tests, inspections, procedures, and related actions during and after execution of the Work to evaluate that actual products incorporated into the Work and completed construction comply with requirements. Services do not include contract enforcement activities performed by the Owner.
- C. Preconstruction Testing: Tests and inspections performed specifically for the Project before products and materials are incorporated into the Work to verify performance or compliance with specified criteria.
- D. Product Testing: Tests and inspections that are performed by a testing agency qualified to conduct product testing and acceptable to authorities having jurisdiction, to establish product performance and compliance with specified requirements.
- E. Source Quality-Control Testing: Tests and inspections that are performed at the source, i.e., plant, mill, factory, or shop.
- F. Field Quality-Control Testing: Tests and inspections that are performed on-site for installation of the Work and for completed Work.
- G. Testing Agency: An entity engaged to perform specific tests, inspections, or both. Testing laboratory shall mean the same as testing agency.
- H. Installer/Applicator/Erector: Contractor or another entity engaged by Contractor as an employee or subcontractor to perform a particular construction operation, including installation, erection, application, and similar operations.
  - 1. Use of trade-specific terminology in referring to a trade or entity does not require that certain construction activities be performed by accredited or unionized individuals, or that requirements specified apply exclusively to specific trade or trades.
- I. Experienced: When used with an entity or individual, "experienced" means having successfully completed a minimum of five previous projects similar in nature, size, and extent to this project; being familiar with special requirements indicated; and having complied with requirements of authorities having jurisdiction.

## QUALITY REQUIREMENTS – 01 4000

### 1.4 CONFLICTING REQUIREMENTS

- A. Referenced Standards: If compliance with two or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement. Refer conflicting requirements that are different, but apparently equal, to Owner for a decision before proceeding.
- B. Minimum Quantity or Quality Levels: The quantity or quality level shown or specified shall be the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. Refer uncertainties to Owner for a decision before proceeding.

### 1.5 SUBMITTALS

- A. Contractor's Quality-Control Plan: For quality-assurance and quality-control activities and responsibilities.
- B. Contractor's Quality-Control Manager Qualifications: For supervisory personnel.
- C. Contractor's Statement of Responsibility: When required by authorities having jurisdiction, submit copy of written statement of responsibility sent to authorities having jurisdiction before starting work on the applicable systems or components.

### 1.6 CONTRACTOR'S QUALITY-CONTROL PLAN

- A. The Contractor shall establish, provide, and maintain an effective Quality Control Program that details the methods and procedures that will be taken to assure that all materials and completed construction required by this contract conform to contract plans, technical specifications and other requirements, whether manufactured by the Contractor, or procured from subcontractors or vendors. Although guidelines are established and certain minimum requirements are specified here and elsewhere in the contract technical specifications, the Contractor shall assume full responsibility for accomplishing the stated purpose.
- B. Submit quality-control plan in a form acceptable to the Owner within 10 days of Notice to Proceed, and not less than five days prior to preconstruction conference. Identify personnel, procedures, controls, instructions, tests, records, and forms to be used to carry out Contractor's quality-assurance and quality-control responsibilities. Coordinate with Contractor's construction schedule. The Contractor shall discuss and present, at the preconstruction conference, its understanding of the quality control requirements.
- C. The Contractor shall appoint a Quality Control Program Administrator who shall have a minimum of five (5) years of experience in airport construction and shall have had prior quality control experience on a project of comparable size and scope as the contract. The Program Administrator shall have full authority to institute any and all actions necessary for the successful implementation of the Quality Control Program to ensure compliance with the contract documents and technical specifications. The Program Administrator shall report directly to a responsible officer of the construction firm.
- D. Quality-Control Technicians: A sufficient number of quality control technicians necessary to adequately implement the Quality Control Program shall be provided. These personnel shall be registered engineers, registered architects, engineering/construction management technicians, or experienced craftsman with qualifications in the appropriate trade and field or work, and shall have a minimum of two years of experience in their area of expertise as quality control technicians. The quality control technicians shall report directly to the Program Administrator.
- E. Testing and Inspection: Include in quality-control plan a comprehensive schedule of Work requiring testing or inspection, including the following:
  - 1. Contractor-performed tests and inspections including subcontractor-performed tests and inspections. Include required tests and inspections and Contractor-elected tests and inspections.
  - 2. Special inspections required by authorities having jurisdiction and as indicated by the Owner.
  - 3. Owner-performed tests and inspections indicated in the contract documents.

## QUALITY REQUIREMENTS – 01 4000

- F. Continuous Inspection of Work quality: Describe process for continuous inspection during construction to identify and correct deficiencies in work quality in addition to testing and inspection specified. Indicate types of corrective actions to be required to bring work into compliance with standards of quality established by contract requirements.
- G. Monitoring and Documentation: Maintain testing and inspection reports including log of approved and rejected results. Include work Owner has indicated as nonconforming or defective. Indicate corrective actions taken to bring nonconforming work into compliance with requirements. Comply with requirements of authorities having jurisdiction.

### 1.7 REPORTS AND DOCUMENTS

- A. Test and Inspection Reports: Prepare and submit certified written reports specified in other Sections in a format acceptable to the Owner. Include the following:
  - 1. Date of issue.
  - 2. Name, email address, and telephone number of testing agency and/or persons making tests and inspections.
  - 3. Dates and locations of samples and tests or inspections.
  - 4. Description of the Work and test and inspection method.
  - 5. Identification of product and specification section.
  - 6. Complete test or inspection data, results, and interpretation thereof.
  - 7. Record of temperature and weather conditions at time of sample taking and testing and inspecting.
  - 8. Name and signature of laboratory inspector.
  - 9. Recommendations on retesting and re-inspecting.
- B. Manufacturer's Technical Representative's Field Reports: Prepare written information documenting manufacturer's technical representative's tests and inspections specified in other sections in a format acceptable to the Owner. Include the following:
  - 1. Name, address, email, and telephone number of technical representative making report.
  - 2. Statement on condition of substrates and their acceptability for installation of product.
  - 3. Statement that products at project site comply with requirements.
  - 4. Summary of installation procedures being followed, whether they comply with requirements and, if not, what corrective action was taken.
  - 5. Results of operational and other tests and a statement of whether observed performance complies with requirements.
  - 6. Statement whether conditions, products, and installation will affect warranty.
  - 7. Other required items indicated in individual specification sections.
- C. Permits, Licenses, and Certificates: For Owner's records, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, correspondence, records, and similar documents, established for compliance with standards and regulations bearing on performance of the Work.

### 1.8 QUALITY ASSURANCE

- A. General: Qualifications paragraphs in this article establish the minimum qualification levels required; individual specification sections specify additional requirements.
- B. Manufacturer Qualifications: A firm experienced in manufacturing products or systems similar to those indicated for this Project for at least five years and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
- C. Fabricator Qualifications: A firm experienced in producing products similar to those indicated for this Project for at least five years and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.

## QUALITY REQUIREMENTS – 01 4000

- D. Installer Qualifications: A firm or individual experienced in installing, erecting, or assembling work similar in material, design, and extent to that indicated for this Project for at least five years and whose work has resulted in construction with a record of successful in-service performance..

### 1.9 QUALITY CONTROL

- A. Owner Responsibilities: Where quality-control services are indicated as Owner's responsibility, Owner will engage a qualified testing agency or inspector to perform these services.
  - 1. Owner will furnish Contractor with names, addresses, email, and telephone numbers of testing agencies or inspectors engaged and a description of types of testing and inspecting they are engaged to perform.
  - 2. Costs for retesting and reinspecting construction that replaces or is necessitated by work that failed to comply with the contract documents, or that the Contractor requested to proceed on a partial basis to accommodate construction sequencing will be charged to Contractor, and the contract sum will be adjusted by Change Order.
- B. Contractor Responsibilities: Tests and inspections not explicitly assigned to Owner are Contractor's responsibility. Perform additional quality-control activities required to verify that the Work complies with requirements, whether specified or not.
  - 1. Unless otherwise indicated, provide quality-control services specified and those required by authorities having jurisdiction.
  - 2. Where services are indicated as Contractor's responsibility, engage a qualified testing agency to perform these quality-control services.
  - 3. Notify testing agencies at least 24 hours in advance of time when Work that requires testing or inspecting will be performed.
  - 4. Where quality-control services are indicated as Contractor's responsibility, submit a certified written report of each quality-control service.
  - 5. Testing and inspecting requested by Contractor and not required by the contract documents are Contractor's responsibility.
- C. Retesting/Reinspecting: Regardless of whether original tests or inspections were Contractor's responsibility, provide quality-control services, including retesting and reinspecting, for construction that replaced Work that failed to comply with the Contract Documents.

### 1.10 SPECIAL TESTS AND INSPECTIONS

- A. Special Tests and Inspections: Owner will engage a qualified special inspector to conduct special tests and inspections required by authorities having jurisdiction as the responsibility of Owner, as described in the contract documents, and as follows:
  - 1. Verifying that manufacturer maintains detailed fabrication and quality-control procedures and reviewing the completeness and adequacy of those procedures to perform the Work.
  - 2. Notifying Owner and Contractor promptly of irregularities and deficiencies observed in the Work during performance of its services.
  - 3. Submitting a written report of each test, inspection, and similar quality-control service to Owner with copy to Contractor and to authorities having jurisdiction, when applicable.
  - 4. Interpreting tests and inspections and stating in each report whether tested and inspected work complies with or deviates from the contract documents.

## PART 2 - PRODUCTS (Not Used)

## PART 3 - EXECUTION

### 3.1 FREQUENCY

- A. Contractor shall implement the Quality Control Program throughout the Work. Inspections shall be performed daily to ensure continuing compliance with contract requirements until completion of the particular feature of work.
- B. During field operations, quality control test results and periodic inspections shall be used to ensure the quality of all materials and work quality. All equipment used in placing, finishing, assembling, and



## QUALITY REQUIREMENTS – 01 4000

compacting shall be inspected to ensure its proper operating condition and to ensure that all such operations are in conformance to the technical specifications and are within the plan dimensions, lines, grades, and tolerances specified.

### 3.2 TEST AND INSPECTION LOG

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

### 3.3 DOCUMENTATION

- A. Daily Inspection Reports. Each of the Contractor's quality control technicians shall maintain a daily log of all inspections performed for both Contractor and subcontractor operations. These technician's daily reports shall provide factual evidence that continuous quality control inspections have been performed and shall, as a minimum, include the following:
  - 1. Technical specification item number and description
  - 2. Compliance with approved submittals
  - 3. Proper storage of materials and equipment
  - 4. Proper operation of all equipment
  - 5. Adherence to plans and technical specifications
  - 6. Review of quality control tests
  - 7. Safety inspection.

The daily inspection reports shall identify inspections conducted, results of inspections, location and nature of defects found, causes for rejection, and remedial or corrective actions taken or proposed. The daily inspection reports shall be signed by the responsible quality control technician and the Program Administrator. The Owner shall be provided a copy of each daily inspection report on the work day following the day of record.

### 3.4 REPAIR AND PROTECTION

- A. General: On completion of testing, inspecting, sample taking, and similar services, repair damaged construction and restore substrates and finishes in accordance with the contract document requirements for cutting and patching.
- B. Protect construction exposed by or for quality-control service activities.
- C. Repair and protection are Contractor's responsibility, regardless of the assignment of responsibility for quality-control services.

**END OF SECTION 01 4000**

## TEMPORARY FACILITIES AND CONTROLS – 01 5000

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

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

#### 1.2 SUMMARY

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

#### 1.3 USE CHARGES

- A. General: Installation and removal of and use charges for temporary facilities shall be included in the contract sum unless otherwise indicated. Allow other entities to use temporary services and facilities without cost, including, but not limited to Owner's construction forces, Architect/Engineer, testing agencies, and authorities having jurisdiction.
- B. Electric Power Service from Existing System: Electric power from Owner's existing system may be used by the Contractor without metering and without payment of use charges, as long as Contractor demonstrates responsible use, coordinates closely with Owner, and uses conservation measures. Provide connections and extensions of services as required for construction operations. Owner's electrical power shall not be used to provide temporary heat in construction areas.
  - 1. Provide circuit protection appropriate for the construction power requirements. Upon completion of construction, remove the circuit protection installed for this project and restore the panel or MCC to its original condition.
  - 2. Feeders from the power source may be single conductors in conduit or cable. The circuits shall be installed to ensure clear access and safety for airport operations.
  - 3. Provide a narrated plan or drawing of proposed installation for Owner approval five days prior to start of work on site.
- C. Toilets: Contractor shall provide temporary portable toilet in a location agreed to by the Owner.

#### 1.4 SUBMITTALS

- A. Site Plan: Show temporary facilities, utility hookups, and staging areas.
- B. Erosion and Sedimentation-Control Plan: Show compliance with requirements of JNU Airport's multi-sector permit for storm water discharge for Work that affects existing surface drainage.
- C. Moisture-Protection Plan: Describe procedures and controls for protecting materials and construction from water absorption and damage, including protection of existing adjacent building.
  - 1. Describe delivery, handling, and storage provisions for materials subject to water absorption or water damage.
  - 2. Indicate procedures for discarding water-damaged materials, protocols for mitigating water intrusion into completed Work, and replacing water-damaged Work.

#### 1.5 QUALITY ASSURANCE

- A. Tests and Inspections: Arrange for authorities having jurisdiction to test and inspect each temporary utility before use. Obtain required certifications and permits, except that Owner will obtain and pay for the necessary building permit.

#### 1.6 PROJECT CONDITIONS

- A. Temporary Use of Permanent Facilities: Engage Installer of each permanent service to assume responsibility for operation, maintenance, and protection of each permanent service during its use as a construction facility before Owner's acceptance, regardless of previously assigned responsibilities.

## TEMPORARY FACILITIES AND CONTROLS – 01 5000

### PART 2 - PRODUCTS

#### 2.1 MATERIALS

- A. Polyethylene Sheet: Reinforced, fire-resistive sheet, 10-mil minimum thickness, with flame-spread rating of 15 or less per ASTM E 84 and passing NFPA 701 Test Method 2.

#### 2.2 TEMPORARY FACILITIES

- A. Field Office: Contractor shall establish a field office in a designated project staging and storage area on airport property, or in another location agreed to by the Owner.
- B. Storage and Fabrication Sheds: Provide sheds sized, furnished, and equipped to accommodate materials and equipment for construction operations.

#### 2.3 EQUIPMENT

- A. Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.

### PART 3 - EXECUTION

#### 3.1 INSTALLATION, GENERAL

- A. Obtain written approval of temporary facility locations by the Owner and locate where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required by progress of the Work.
- B. Provide each facility ready for use when needed to avoid delay. Promptly remove facilities when they are no longer needed.

#### 3.2 TEMPORARY UTILITY INSTALLATION

- A. General: Install temporary service or connect to existing service when allowed by Owner.
  - 1. Arrange with utility company, Owner, and existing users for time when service can be interrupted, if necessary, to make connections for temporary services.
  - 2. At Substantial Completion, remove or restore all temporary facilities to condition existing before initial use.
- B. Electric Power Service: Connect to Owner's existing electric power service. Connect temporary service to Owner's existing power source when approved by Owner and maintain equipment in a condition acceptable to Owner.
- C. Lighting: Provide temporary lighting that provides adequate illumination for construction operations, observations, inspections, and traffic conditions.
  - 1. Maintain conservation practices to shut off lighting when work is not underway.
- D. Isolation of Work Areas in Occupied Facilities: Prevent dust, fumes, and odors from entering occupied areas of adjacent building.
  - 1. Maintain dust partitions during the Work. Use vacuum collection attachments on dust-producing equipment.
- E. Ventilation and Humidity Control: Provide temporary ventilation required by construction activities for curing or drying of completed installations or for protecting installed construction from adverse effects of high humidity.

#### 3.3 SUPPORT FACILITIES INSTALLATION

- A. Temporary Use of Permanent Roads and Paved Areas: Contractor may utilize existing roads and paved areas, within construction limits indicated, as necessary for construction operations and in accordance with Airport safety and security regulations.
- B. Traffic Controls: Comply with requirements of authorities having jurisdiction.

## TEMPORARY FACILITIES AND CONTROLS – 01 5000

1. Protect existing site improvements to remain including curbs, pavement, and utilities.
  2. Maintain access for fire-fighting equipment and access to fire hydrants.
  3. Maintain established vehicular and aircraft traffic routes in and around the Work area.
- C. Parking: Use designated parking areas for construction personnel.
- D. Dewatering Facilities and Drains: Comply with requirements of authorities having jurisdiction. Maintain project site, excavations, and construction free of water.
1. Dispose of rainwater in a lawful manner that will not result in flooding project or adjoining properties or endanger permanent Work or temporary facilities.
  2. Juneau International Airport holds a multi-sector permit issued by the Alaska Department of Environmental Conservation for storm water discharge. Contractor shall comply with all applicable permit conditions through completion of the Work.
- E. Waste Disposal Facilities: Provide waste-collection containers in sizes adequate to handle waste from construction operations. Comply with requirements of authorities having jurisdiction. Comply with Airport safety requirements regarding Flying Object Debris (FOD).
- 3.4 SECURITY AND PROTECTION FACILITIES INSTALLATION
- A. Protection of Existing Facilities: Protect existing vegetation, equipment, structures, utilities, and other improvements at Project site and on adjacent properties, except those indicated to be removed or altered. Repair damage to existing facilities.
- B. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction as required to comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
- C. Security Enclosure: Install temporary enclosure around partially completed areas of construction to prevent unauthorized entrance, vandalism, theft, and similar violations of security.
- D. Barricades, Warning Signs, and Lights: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades, including warning signs and lighting.
- E. Temporary Enclosures: Provide temporary enclosures for protection of construction, in progress and completed, from exposure, foul weather, other construction operations, and similar activities. Provide temporary weathertight enclosure for building exterior.
- F. Temporary Partitions: Provide floor-to-ceiling dustproof partitions to limit dust and dirt migration and to separate occupied of adjacent building from fumes and noise.
1. Construct dustproof partitions on the occupied side, or other materials approved by the Owner, and as indicated on drawings.
  2. Seal joints and perimeter.
- G. Temporary Fire Protection: Install and maintain temporary fire-protection facilities of types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 241; manage fire-prevention program.
1. Prohibit smoking in construction areas.
  2. Supervise welding operations, combustion-type temporary heating units, and similar sources of fire ignition according to requirements of authorities having jurisdiction.
  3. Develop and supervise an overall fire-prevention and -protection program for personnel at Project site. Review needs with local fire department and establish procedures to be followed. Instruct personnel in methods and procedures.
- 3.5 MOISTURE AND MOLD CONTROL
- A. Contractor's Moisture-Protection Plan: Submit a written plan to the Owner that describes how the adjacent building will be kept free of moisture and mold throughout the construction period.

## TEMPORARY FACILITIES AND CONTROLS – 01 5000

- B. Exposed Construction Phase: Before installation of weather barriers, when materials are subject to wetting and exposure and to airborne mold spores, protect as follows:
    - 1. Protect porous materials from water damage.
    - 2. Protect stored and installed material from flowing or standing water.
    - 3. Remove standing water from roof deck.
    - 4. Keep roof deck openings covered or dammed.
  
  - C. Partially Enclosed Construction Phase: After installation of weather barriers but before full enclosure and conditioning of building, when installed materials are still subject to infiltration of moisture and ambient mold spores, protect as follows:
    - 1. Discard or replace water-damaged material.
    - 2. Do not install material that is wet.
    - 3. Discard, replace, or clean stored or installed material that begins to grow mold.
- 3.6 OPERATION, TERMINATION, AND REMOVAL
- A. Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse, limit availability of temporary facilities to essential and intended uses.
  
  - B. Maintenance: Maintain facilities in good operating condition until removal.
    - 1. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation, and similar facilities on a 24-hour basis where required to achieve indicated results and to avoid possibility of damage.
  
  - C. Termination and Removal: Remove each temporary facility when need for its service has ended, when it has been replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.
    - 1. Materials and facilities that constitute temporary facilities are property of Contractor unless noted on the drawing.
    - 2. At Substantial Completion, repair, renovate, and clean permanent facilities used during construction period.

**END OF SECTION 01 5000**

**PART 1 - GENERAL**

1.1 RELATED DOCUMENTS

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

1.2 SECURITY PROGRAM AT JUNEAU INTERNATIONAL AIRPORT

- A. The Contractor shall:
  - 1. Ensure that all contractor's and subcontractor's personnel working on-site are appropriately badged or are under escort.
  - 2. Protect Work area and existing premises and Owner's operations from theft, vandalism, and unauthorized entry.
  - 3. Prepare a Safety Plan Compliance Document per FAA Advisory Circular 150/5370-2G and in accordance with these contract requirements.
  - 4. Initiate security program, approved by Owner, prior to start of Work, including coordination of all temporary barriers and controls to meet Transportation Security Administration (TSA) and JNU Airport Security requirements.
  - 5. Maintain program throughout construction period until Owner's occupancy.
  - 6. Security changes necessary for construction activities to the perimeter gates, doors, and/or fence must be requested 60 days in advance. Temporary changes may be requested within 72 hours (during Airport Office hours).
  - 7. Vehicles, equipment, and materials may not be parked or staged within 6 feet of the perimeter fence, gate, and/or door.

1.3 ACCESS CONTROL

- A. The Contractor shall:
  - 1. Provide a secure Work area in accordance with the drawings and other provisions relating to Airport Security.
  - 2. Restrict entry of persons and vehicles into the airport restricted area (airport property inside the fence, as well as portions of the terminal and adjacent land).
  - 3. Allow entry only to authorized persons with proper identification.
  - 4. Construct all temporary barriers and controls in accordance with applicable security requirements.
  - 5. Utilize Gate K in accordance with JNU Airport security to access the Work site, unless alternate gates approved by the Owner.
- B. Owner shall control entrance of persons and vehicles related to Owner's operations.
- C. The Contractor shall be liable for any fines levied against the Airport by the TSA resulting from actions of the Contractor, or those for whom the Contractor is responsible, that cause a breach of security in the area of construction, to include any points of entry into the restricted area, utilized for the construction project. Failure to maintain security will also include failure to abide by the Airport badge identification program or other requirements pertaining to the security of the Airport.

1.4 AIR OPERATIONS AREA (AOA) BADGE REQUIREMENTS

- A. Only Juneau International Airport Identification Badge, Law Enforcement Credentials, Federal Inspector Credentials and Airline Crew Credentials are recognized as authority to enter or be present in the restricted area of the airport without escort. Only persons identified by this system are permitted access.
- B. Any person found in a location that is not the work area or access route to and from the work area will be removed from the area and action will be taken against violators as appropriate.
- C. To apply for a GA-AOA badge, the Contractor shall apply for clearance with Juneau International Airport Badging Office. Requirements for each employee include completing an Identification Badge/Media Application, photo proof of identity, either proof of US citizenship or work authorization paperwork, and completion of a Federal Security Threat Assessment. Contractor shall assume a minimum of two weeks for the clearance process, however, the clearance process is conducted by TSA and delays may exceed two weeks.
- D. Contractor's personnel are subject to random checks for compliance with badging and permit regulations.

## SECURITY AND SAFETY – 01 5200

Such checks may be conducted by Airport Police, Airport Employees, and/or TSA.

- E. Any falsifications can result in revocation of the badges for the individual in question, and any fines incurred from the violations will be passed to the responsible party.
  - F. The Airport Badge Application is an agreement between the Airport and the badge holder. The badge application provides all rules and procedures the badge holder must comply with while in the restricted area of the airport.
  - G. In order to maintain accountability for all Airport Identification Badges issued, the Contractor is responsible for physically collecting and returning to the Airport all outstanding badges no longer used for the construction project including those badges carried by persons no longer working on the project. Proof of return is the Airport Receipt issued by the Airport.
  - H. When someone terminates employment, the Contractor shall immediately notify the Airport so that the badge can be deactivated. If termination is outside of the normal working hours, the Contractor shall immediately notify Airport Police at 586-0899 or 321-3802 of the termination.
  - I. A non-refundable fine of \$300.00 will be levied against the Contractor for each badge not returned within five days of badge expiration, employee termination or completion of the project, whichever is sooner.
  - J. Should an employee lose his or her Airport Identification Badge, he or she shall immediately notify the Contractor, who shall then immediately notify the Airport to deactivate the badge access. If lost after normal business hours, the lost badge shall be reported to Airport Police. If the lost badge is found the Contractor must notify the Airport to reactivate the badge. Further, the Airport will confirm the employee's employment status prior to reactivation of a badge reported lost, then found by its owner. If requested, a replacement badge will not be issued until a replacement request letter is received and the \$200.00 lost badge fee is paid. This is a separate fee from the non-refundable fine of \$300.00 applied to non-returned badges. If a replacement badge is issued for a lost badge, *and* the \$200.00 fee paid, the Contractor will not be charged the non-refundable fine of \$300.00.
  - K. Final payment to the Contractor will not be authorized until all badges are returned to the Airport.
  - L. The Contractor's and subcontractor's personnel shall be GA-AOA badged for this project as required to complete the Work. Upon request of the Contractor, Escort Authority may be authorized by the Owner to specific employees or subcontractors of the Contractor when the Work is limited in duration. In such cases, the Contractor is fully responsible for all such personnel.
- 1.5 VEHICLE ACCESS IN THE AIR OPERATIONS AREA (AOA)
- A. The TSA requires the Airport Operator to control access into and prevent unauthorized vehicles from entering the air operations area (AOA), which is also referred to as the airport restricted area or area inside the airport fence line. In compliance with this requirement, the Airport Operator has established procedures to authorize or deny access to the AOA and to identify and control vehicles within the AOA.
  - B. When any vehicle, other than one that has prior approval from the airport operator, must travel over any portion of an area used by aircraft moving under its own power it will be properly identified and an amber colored rotating beacon is required.
  - C. All Contractor vehicles requiring access to the AOA shall display a company name/logo. Company name/logo must be affixed to both sides of the vehicle (vehicle magnets are not prohibited in the AOA).
  - D. Contractor vehicles are only authorized in designated areas where contract work is being performed and on the access routes to and from that area; during contract working hours.
  - E. A Contractor vehicle is authorized in the AOA only when within its area of authorization, the safety flag are properly displayed, and all occupants have the required Airport Identification Badge.

### 1.6 PROJECT SITE SECURITY

## SECURITY AND SAFETY – 01 5200

- A. Contractor's personnel shall park vehicles in the designated parking area and shall walk to the project site, unless a vehicle is needed in the project area and approved by the Owner.
- B. Tools shall be kept secure, and when in use kept in sight of the Contractor.
- C. All access points into the project area must be kept secure. Primary entry to the work site will be through Gate K. Temporary walls, barriers/barricades and fencing shall be placed to separate work areas from non-work areas, and will be described in the Contractor's approved Safety Plan Compliance Document.
- D. The Contractor shall notify the Owner at least 72 hours before the following conditions:
  - 1. When construction activities on site are about to begin.
  - 2. When Work is complete.

### 1.7 SAFETY PLAN

- A. The Airport will prepare a Construction Safety and Phasing Plan (CSPP) in accordance with FAA Advisory Circular 150/5370-2G.
- B. Contractor shall submit a written Safety Plan Compliance Document developed in accordance with FAA Advisory Circular 150/5370-2G that details how the Contractor will comply with the CSPP. The Safety Plan shall address the following:
  - 1. Maintaining safe airport operations in the vicinity of the Work, including separating pedestrian, vehicles, equipment, and aircraft.
  - 2. Maintaining clean and safe construction operations including controlling Foreign Object Debris (FOD).
  - 3. Controlling access to the Work area through the use of temporary barriers and restricting access by unauthorized persons.
  - 4. Understanding the safety problems and hazards described in AC 150/5370-2G, *Operational Safety on Airports During Construction*.
  - 5. Conducting activities so as not to violate any safety standards contained in AC 150/5370-2G or any of the references therein.
  - 6. Promptly taking all actions necessary to prevent or remedy any unsafe or potentially unsafe conditions as soon as they are discovered.
  - 7. Identifying locations for materials, equipment operations, delivery access, and construction personnel parking.
  - 8. The Contractor must ensure that all trash, debris, and bird attractants are stored in proper areas. Further, all vehicles/equipment are clean of bird attractants.
- C. Contractor's overall project safety plan shall be reviewed and updated at Progress Meetings and at other times as required by the Owner's Representative.

### 1.8 RESTRICTIONS

- A. The Contractor shall not allow cameras on site or photographs to be taken by persons under the control of the Contractor except by written approval of the Owner.
- B. Contractor shall, at all times, give way to all aircraft and follow directions from aircraft ground crews.

## PART 2 - PRODUCTS (Not Used)

## PART 3 - EXECUTION (Not Used)

**END OF SECTION 01 5200**



## PRODUCT REQUIREMENTS – 01 6000

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

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

#### 1.2 SUMMARY

- A. Section includes administrative and procedural requirements for selection of products for use in Project; product delivery, storage, and handling; manufacturers' standard warranties on products; special warranties; and comparable products.

#### 1.3 DEFINITIONS

- A. Products: Items obtained for incorporating into the Work, whether purchased for Project or taken from previously purchased stock. The term "product" includes the terms "material," "equipment," "system," and terms of similar intent.
  - 1. Named Products: Items identified by manufacturer's product name, including make or model number or other designation shown or listed in manufacturer's published product literature that is current as of date of the Contract Documents.
  - 2. New Products: Items that have not previously been incorporated into another project or facility. Products salvaged or recycled from other projects are not considered new products.
  - 3. Comparable Product: Product that is demonstrated and approved through submittal process to have the indicated qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics that equal or exceed those of specified product.
- B. Basis-of-Design Product Specification: A specification in which a specific manufacturer's product is named and accompanied by the words "basis-of-design product," including make or model number or other designation, to establish the significant qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics for purposes of evaluating comparable products of additional manufacturers named in the specification.

#### 1.4 ACTION SUBMITTALS

- A. Comparable Product Requests: Submit request for consideration of each comparable product. Identify product or fabrication or installation method to be replaced.
  - 1. Include data to indicate compliance with the contract documents requirements.
  - 2. Owner's Action: If necessary, Owner will request additional information or documentation for evaluation within one week of receipt of a comparable product request. Owner will notify Contractor of approval or rejection of proposed comparable product request within 15 days of receipt of request, or seven days of receipt of additional information or documentation, whichever is later.
    - a. Use form of Approval as required by the Owner.
    - b. Use product specified if Owner does not issue a decision on use of a comparable product request within time allocated.

#### 1.5 QUALITY ASSURANCE

- A. If Contractor is given option of selecting between two or more products for use on project, select product compatible with products previously selected, even if previously selected products were also options.

#### 1.6 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, and handle products using means and methods that will prevent damage, deterioration, and loss, including theft and vandalism. Comply with manufacturer's written instructions.
- B. Delivery and Handling:
  - 1. Schedule delivery to minimize storage at project site and to prevent overcrowding of construction spaces.
  - 2. Coordinate delivery with installation time to ensure minimum holding time for items that are flammable, hazardous, easily damaged, or sensitive to deterioration or theft.

## PRODUCT REQUIREMENTS – 01 6000

3. Deliver products to project site in an undamaged condition in manufacturer's original sealed container or other packaging system, complete with labels and instructions for handling, storing, unpacking, protecting, and installing.
4. Inspect products on delivery to determine compliance with the Contract Documents and to determine that products are undamaged and properly protected.

C. Storage:

1. Store products to allow for inspection and measurement of quantity or counting of units.
2. Store materials in a manner that will not endanger project structure.
3. Store products that are subject to damage by the elements, under cover in a weathertight enclosure above ground, with ventilation adequate to prevent condensation.
4. Comply with product manufacturer's written instructions for temperature, humidity, ventilation, and weather-protection requirements for storage.
5. Provide a secure location and enclosure at project site for storage of materials and equipment. Coordinate location with Owner.

### 1.7 PRODUCT WARRANTIES

- A. Warranties specified in other sections shall be in addition to, and run concurrent with, other warranties required by the contract documents. Manufacturer's disclaimers and limitations on product warranties do not relieve Contractor of obligations of the contract documents.
1. Manufacturer's Warranty: Written warranty furnished by individual manufacturer for a particular product and specifically endorsed by manufacturer to Owner.
  2. Special Warranty: Written warranty required by the Contract Documents to provide specific rights for Owner.
- B. Submittal Time: Comply with requirements in Section 01 7700 "Closeout Procedures."

## PART 2 - PRODUCTS

### 2.1 PRODUCT SELECTION PROCEDURES

- A. General Product Requirements: Provide products that comply with the Contract Documents, are undamaged and, unless otherwise indicated, are new at time of installation.
1. Provide products complete with accessories, trim, finish, fasteners, and other items needed for a complete roofing system installation and indicated use and effect.
  2. Standard Products: If available, and unless custom products or nonstandard options are specified, provide standard products of types that have been produced and used successfully in similar situations on other projects.
  3. Owner reserves the right to limit selection to products with warranties not in conflict with requirements of the Contract Documents.
  4. Where products are accompanied by the term "as selected," Owner will make selection.
  5. Descriptive, performance, and reference standard requirements in the Specifications establish salient characteristics of products.
  6. Or Equal: For products specified by name and accompanied by the term "or equal," or "or approved equal," or "or approved," comply with requirements in "Comparable Products" Article to obtain approval for use of an unnamed product.
- B. Product Selection Procedures:
1. Products:
    - a. Where specifications include a list of names of both manufacturers and products, provide one of the products listed that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered unless otherwise indicated.
  2. Manufacturers:
    - a. Where specifications include a list of manufacturers' names, provide a product by one of the manufacturers listed that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered unless otherwise indicated.

## **PRODUCT REQUIREMENTS – 01 6000**

### **2.2 COMPARABLE PRODUCTS**

- A. Conditions for Consideration: Owner will consider Contractor's request for comparable product when the following conditions are satisfied. If the following conditions are not satisfied, Owner may return requests without action, except to record noncompliance with these requirements:
1. Evidence that the proposed product does not require revisions to the contract documents, is consistent with the contract documents and will produce the indicated results, and that it is compatible with other portions of the Work.
  2. Detailed comparison of significant qualities of proposed product with those named in the Specifications. Significant qualities include attributes such as performance, weight, size, durability, visual effect, and specific features and requirements indicated.
  3. Evidence that proposed product provides specified warranty.
  4. List of similar installations for completed projects with project names and addresses and names and addresses of architects and owners, if requested.
  5. Samples, if requested.

### **PART 3 - EXECUTION (Not Used)**

**END OF SECTION 01 6000**

## MOBILIZATION - 01 7113

### PART 1 GENERAL

#### 1.1 GENERAL

- A. Mobilization shall include obtaining all permits; moving all plant and equipment onto the site; furnishing and erecting temporary buildings and other construction facilities; implementing security requirements, and providing all required start up documentation to the Owner, all as required for the proper performance and completion of the Work. Mobilization shall include the following principal items:
1. Moving all the Contractor's plant and equipment required for operations onto the site.
  2. Providing all on-site communication facilities, including cellular phones.
  3. Providing on-site sanitary facilities.
  4. Obtaining all required permits.
  5. Obtaining security badges for Superintendent and lead personnel.
  6. Having all OSHA-required notices and establishment of safety programs.
  7. Having the Contractor's superintendent at the jobsite during Work.
  8. Submitting initial submittals.
  9. Installing perimeter barricades and/or fence.

#### 1.2 PAYMENT FOR MOBILIZATION

- A. The Contractor's attention is directed to the condition that no payment for Mobilization, or any part thereof, will be approved for payment under the Contract Documents until all Mobilization items listed above have been completed as specified.
- B. As soon as practicable after receipt of Notice to Proceed, the Contractor shall submit on the Schedule of Values a breakdown showing the estimated value of each major component of Mobilization, including a value for De-Mobilization prior to Substantial Completion. When approved by the Owner, the breakdown will be the basis for initial progress payments in which Mobilization is included.

### PART 2 PRODUCTS (Not Used)

### PART 3 EXECUTION (Not Used).

END OF SECTION 01 7113

## EXECUTION – 01 7300

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 specification sections apply to this section.

#### 1.2 SUMMARY

- A. Section includes general administrative and procedural requirements governing execution of the Work including, but not limited to, the following:
  1. Construction layout.
  2. Selective Demolition.
  3. Installation of the Work.
  4. Cutting and Patching.

#### 1.3 DEFINITIONS

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

#### 1.4 QUALITY ASSURANCE

- A. Cutting and Patching: Comply with requirements for and limitations on cutting and patching of construction elements
  1. Structural Elements: When cutting and patching structural elements, notify Owner of locations and details of cutting and await directions from Owner before proceeding. Shore, brace, and support structural elements during cutting and patching. Do not cut and patch structural elements in a manner that could change their load-carrying capacity or increase deflection
  2. Operational Elements: Do not cut and patch operating elements and related components in a manner that results in reducing their capacity to perform as intended or in increased maintenance or decreased operational life or safety.
  3. Other Construction Elements: Do not cut and patch other construction elements or components in a manner that could change their load-carrying capacity, that results in reducing their capacity to perform as intended, or that results in increased maintenance or decreased operational life or safety
  4. Visual Elements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch exposed construction in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.
- B. Cutting and Patching Conference: Before proceeding, meet at project site with parties involved in cutting and patching, including mechanical and electrical trades and utilities. Review areas of potential interference and conflict. Coordinate procedures and resolve potential conflicts before proceeding.

### PART 2 - PRODUCTS

#### 2.1 MATERIALS

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

### PART 3 - EXECUTION

#### 3.1 EXAMINATION AND LAYOUT

- A. Examination and Acceptance of Conditions: Before proceeding with each component of the Work, examine substrates, areas, and conditions, with installer or applicator present where indicated, for compliance with requirements for installation tolerances and other conditions affecting performance. Record observations.

## EXECUTION – 01 7300

1. Examine walls, floors, and roofs for suitable conditions where products and systems are to be installed.
  2. Verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.
- B. Proceed with installation only after unsatisfactory conditions have been corrected. Proceeding with the Work indicates acceptance of surfaces and conditions.
- 3.2 PREPARATION
- A. Take field measurements as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
  - B. Verify space requirements and dimensions of items shown diagrammatically on drawings.
  - C. Immediately on discovery of the need for clarification of the Contract Documents caused by differing field conditions outside the control of Contractor, submit a request for information to the Owner according to requirements in Section 01 3100 "Project Management and Coordination."
  - D. Comply with manufacturer's written recommendations for preparation of substrates to receive subsequent work.
- 3.3 SELECTIVE DEMOLITION
- A. Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
    1. Provide protection to ensure safe passage of people around selective demolition area and to and from occupied portions of building.
    2. Protect walls, ceilings, floors, and other existing finish work that are to remain or that are exposed during selective demolition operations.
    3. Cover and protect furniture, furnishings, and equipment that have not been removed.
    4. Comply with requirements for temporary enclosures, dust control, and heating as specified in other Sections.
  - B. Provide and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction, underground components, and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished. Strengthen or add new supports when required during progress of selective demolition.
  - C. Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
    1. Proceed with selective demolition systematically.
    2. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping, to minimize disturbance of adjacent surfaces. Temporarily cover openings.
    3. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
    4. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain fire watch and portable fire-suppression devices during flame-cutting operations. Maintain adequate ventilation when using cutting torches.
    5. Remove decayed or unsuitable materials and promptly dispose of off-site.
    6. Remove structural framing members and lower to ground by method suitable to avoid free fall and to prevent ground impact or dust generation.

## EXECUTION – 01 7300

7. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
8. Demolish in small sections and neatly trim openings to dimensions indicated

### 3.4 INSTALLATION

- A. General: Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated.
  1. Make vertical work plumb and make horizontal work level.
  2. Where space is limited, install components to maximize space available for maintenance and ease of removal for replacement.
  3. Conceal pipes, ducts, and wiring in finished areas unless otherwise indicated.
- B. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated.
- C. Install products at the time and under conditions that will ensure the best possible results. Maintain conditions required for product performance until Substantial Completion.
- D. Conduct construction operations so no part of the Work is subjected to damaging operations or loading in excess of that expected during normal conditions of occupancy.
- E. Sequence the Work and allow adequate clearances to accommodate movement of construction items on site and placement in permanent locations.
- F. Obtain and distribute to the parties involved templates for work specified to be factory prepared and field installed. Check shop drawings of other Work to confirm that adequate provisions are made for locating and installing products to comply with indicated requirements.
- G. Provide blocking and attachment plates and anchors and fasteners of adequate size and number to securely anchor each component in place, accurately located and aligned with other portions of the Work. Where size and type of attachments are not indicated, verify size and type required for load conditions.
  1. Mounting Heights: Where mounting heights are not indicated, mount components at heights directed by Architect.
  2. Allow for building movement, including thermal expansion and contraction.
  3. Coordinate installation of anchorages. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.
- H. Make joints of uniform width. Where joint locations in exposed work are not indicated, arrange joints for the best visual effect. Fit exposed connections together to form hairline joints.
- I. Use products, cleaners, and installation materials that are not considered hazardous.

### 3.5 CUTTING AND PATCHING

- A. Employ skilled workers to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time, and complete without delay.
  1. Cut in-place construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition.
- B. Provide temporary support of work to be cut.
- C. Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of project that might be exposed during cutting and patching operations.

## EXECUTION – 01 7300

- D. Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction.
1. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots neatly to minimum size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
  2. Cut or drill from the exposed or finished side into concealed surfaces.
  3. Cut using a cutting machine, such as an abrasive saw or a diamond-core drill.
  4. Cut pavement using a cutting machine. Shore as needed to perform excavation so as not to endanger adjacent structures.
  5. Cut off mechanical pipe or electrical conduit in walls or partitions to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after cutting.
  6. Proceed with patching after construction operations requiring cutting are complete.
- E. Patch construction by filling, repairing, refinishing, closing up, and similar operations following performance of other work. Patch with durable seams that are as invisible as practicable. Provide materials and comply with installation requirements specified in other Sections, where applicable.
1. Where feasible, test and inspect patched areas after completion to demonstrate physical integrity of installation.
  2. Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will minimize evidence of patching and refinishing.
    - a. Clean piping, conduit, and similar features before applying paint or other finishing materials.
  3. Where walls or partitions that are removed extend one finished area into another, patch and repair floor and wall surfaces in the new space. Provide an even surface of uniform finish, color, texture, and appearance. Remove in-place floor and wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.
    - a. Where patching occurs in a painted surface, prepare substrate and apply primer and intermediate paint coats appropriate for substrate over the patch, and apply final paint coat over entire unbroken surface containing the patch. Provide additional coats until patch blends with adjacent surfaces.
  4. Patch components in a manner that restores enclosure to a weathertight condition and ensures thermal and moisture integrity of building enclosure.
- F. Cleaning: Clean areas and spaces where cutting and patching are performed. Remove paint, mortar, oils, putty, and similar materials from adjacent finished surfaces.
- 3.6 PROTECTION OF INSTALLED CONSTRUCTION
- A. Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at time of Substantial Completion.

**END OF SECTION 01 7300**



## CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL – 01 7419

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 specification sections apply to this section.

#### 1.2 SUMMARY

- A. Section includes administrative and procedural requirements for the following:
  - 1. Disposing of nonhazardous demolition and construction waste.

#### 1.3 DEFINITIONS

- A. Construction Waste: Building and site improvement materials and other solid waste resulting from construction, renovation, or repair operations. Construction waste includes packaging.
- B. Demolition Waste: Building and site improvement materials resulting from demolition or selective demolition operations.
- C. Disposal: Removal off-site of demolition and construction waste and subsequent sale, recycling, reuse, or deposit in landfill or incinerator acceptable to authorities having jurisdiction.
- D. Foreign Object Debris (FOD): A substance, debris or article alien to aircraft that would potentially cause damage to aircraft or flight control mechanisms. FOD includes, but is not limited to, loose hardware, tools, pavement fragments, trash, building materials, rocks, pens, coins, hats, soda cans, paper clips, rags, and wildlife.
- E. Recycle: Recovery of demolition or construction waste for subsequent processing in preparation for reuse.
- F. Salvage: Recovery of demolition or construction waste and subsequent sale or reuse in another facility.
- G. Salvage and Reuse: Recovery of demolition or construction waste and subsequent incorporation into the Work.

### PART 2 - PRODUCTS (Not Used)

### PART 3 - EXECUTION

#### 3.1 WASTE PLAN IMPLEMENTATION

- A. Provide handling, containers, storage, signage, transportation, and other items as required to handle waste during the entire duration of the contract.
  - 1. Comply with operation, termination, and removal requirements in Section 01 5000 "Temporary Facilities and Controls."
- B. Site Access and Temporary Controls: Conduct waste management operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
  - 1. Designate and label specific areas on project site necessary for waste management.
  - 2. Comply with Section 01 5000 "Temporary Facilities and Controls" for controlling dust and dirt, environmental protection, and noise control.
- C. Comply with Airport safety requirements regarding Foreign Object Debris (FOD). Release of uncontrolled debris or materials of any kind is prohibited any place on or over airport property.
- D. Demolition debris is to be collected and containerized.
- E. Contractor to inspect the entire work area, including the grounds immediately around the building on a daily basis and ensure that FOD is not being released. If FOD is found, notify Owner and collect FOD

## **CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL – 01 7419**

immediately, identify the origin of the material found and describe modifications to work process or procedures necessary to prevent additional FOD release.

### **3.2 DISPOSAL OF WASTE**

- A. Remove waste materials from project site and legally dispose of them in a landfill or incinerator acceptable to authorities having jurisdiction.
  - 1. Except as otherwise specified, do not allow waste materials that are to be disposed of to accumulate on-site.
  - 2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
- B. Do not burn waste materials.
- C. Remove waste materials from Owner's property and legally dispose of them.
- D. All debris is to be collected, stored and transported in an enclosed container.

**END OF SECTION 01 7419**

## **CLOSEOUT PROCEDURES – 01 7700**

### **PART 1 - GENERAL**

#### **1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 specification sections apply to this section.

#### **1.2 SUMMARY**

- A. Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:
  - 1. Substantial Completion procedures.
  - 2. Final completion procedures.
  - 3. Warranties
  - 4. Final cleaning.
  - 5. Repair of the Work.

#### **1.3 CLOSEOUT SUBMITTALS**

- A. Certificates of Release from authorities having jurisdiction.

#### **1.4 SUBSTANTIAL COMPLETION PROCEDURES**

- A. Contractor's List of Incomplete Items: Prepare and submit a list of items to be completed and corrected (Contractor's punch list), indicating the value of each item on the list and reasons why the Work is incomplete.
- B. Submittals Prior to Substantial Completion: Complete the following a minimum of 5 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
  - 1. Certificates of Release: Obtain and submit releases from authorities having jurisdiction permitting Owner unrestricted use of the Work and access to services and utilities. Include occupancy permits, operating certificates, and similar releases.
  - 2. Submit closeout submittals specified in other Division 00 and 01 sections, including project record documents, operation and maintenance manuals, final completion construction photos, damage or settlement surveys, and similar final record information.
  - 3. Submit closeout submittals specified in individual Sections, including specific warranties, bonds, maintenance service agreements, final certifications, and similar documents.
- C. Procedures Prior to Substantial Completion: Complete the following a minimum of 5 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
  - 1. Complete final cleaning requirements, including touchup painting.
  - 2. Repair and restore marred exposed finishes to eliminate visual defects.
- D. Inspection: Submit a written request for inspection to determine Substantial Completion a minimum of 5 days prior to date the work will be completed and ready for inspection. On receipt of request, Owner will either proceed with inspection or notify Contractor of unfulfilled requirements. Owner's Representative will prepare the Certificate of Substantial Completion after inspection or will notify Contractor of items, either on Contractor's list or additional items identified by Architect/Engineer that must be completed or corrected before certificate will be issued.
  - 1. Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.
  - 2. Results of completed inspection will form the basis of requirements for final completion.

#### **1.5 FINAL COMPLETION PROCEDURES**

- A. Submittals Prior to Final Completion: Before requesting final inspection for determining final completion, complete the following:
  - 1. Submit a final Application for Payment according the General Conditions.

## **CLOSEOUT PROCEDURES – 01 7700**

2. Submit certified copy of Substantial Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by Architect/Engineer. Certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance.
  3. Forms and certificates required by the Contract Documents.
- B. Inspection: Submit a written request for final inspection to determine acceptance a minimum of 10 days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Owner's Representative will either proceed with inspection or notify Contractor of unfulfilled requirements. Owner will prepare a final Certificate for Payment after inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued.
1. Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.
- C. Organization of List: Include name and identification of each area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.
- 1.6 SUBMITTAL OF PROJECT WARRANTIES
- A. Submit written warranties on request of Owner for designated portions of the Work where commencement of warranties other than date of Substantial Completion is indicated, or when delay in submittal of warranties might limit Owner's rights under warranty.

### **PART 2 - PRODUCTS**

#### 2.1 MATERIALS

- A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.

### **PART 3 - EXECUTION**

#### 3.1 FINAL CLEANING

- A. Perform final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.
- B. Utilize professional cleaning service with personnel qualified and experienced in cleaning building components and systems used in the project. Clean each surface or unit to condition expected for new commercial building standard.
- C. Clean project site, yard, and grounds, in all areas disturbed by construction activities.
- D. Sweep paved and concrete slab areas broom clean. Remove spills, stains, and other foreign deposits caused by construction activities.

#### 3.2 REPAIR OF THE WORK

- A. Complete repair and restoration operations before requesting inspection for determination of Substantial Completion.
- B. Repair or remove and replace defective construction. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment. Where damaged or worn items cannot be repaired or restored, provide replacements. Remove and replace operating components that cannot be repaired. Restore damaged construction and permanent facilities used during construction to specified condition.
  1. Touch up and otherwise repair and restore marred or exposed finishes and surfaces. Replace finishes and surfaces that already show evidence of repair or restoration.

**END OF SECTION 01 7700**

## PROJECT RECORD DOCUMENTS – 01 7839

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

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

#### 1.2 SUMMARY

- A. Section includes administrative and procedural requirements for project record documents, including the following:
  1. Record Drawings.
  2. Record Specifications.
  3. Record Product Data.

#### 1.3 SUBMITTALS

- A. Record Documents: Maintain one paper copy set of red-lined marked-up record prints and specifications for submittal.

### PART 2 - PRODUCTS

#### 2.1 RECORD DRAWINGS

- A. Maintain one set of marked-up paper copies of the contract drawings including shop drawings at a location on-site approved by the Owner.
  1. Neatly mark record prints in red font to show the actual installation where installation varies from that shown originally.
    - a. Give particular attention to information on concealed elements that would be difficult to identify or measure and record later.
    - b. Accurately record information in neat, straight lines acceptable to the Owner.
    - c. Record data as soon as possible after obtaining it.
    - d. Record and check the markup before enclosing concealed installations.
    - e. Cross-reference record prints to corresponding photographic documentation.
  2. Content: Types of items requiring marking include, but are not limited to, the following:
    - a. Dimensional changes to drawings.
    - b. Revisions to details shown on drawings.
    - c. Depths of foundations.
    - d. Revisions to routing of piping and conduits.
    - e. Revisions to electrical circuitry.
    - f. Actual equipment locations.
    - g. Duct size and routing.
    - h. Locations of concealed internal utilities.
    - i. Changes made through Request for Proposal or Construction Change Directive.
    - j. Changes made following Request for Information or Owner's written directive.
    - k. Details not on the original contract drawings.
  3. Mark the contract drawings and shop drawings completely and accurately. Utilize personnel proficient at recording graphic information in production of marked-up prints.
  4. Mark record sets with red-colored ink or pencil. Use other colors to distinguish between changes for different categories of the Work at same location.
  5. Mark important additional information that was either shown schematically or omitted from original drawings.
  6. Note Construction Change Directive numbers, Request for Proposal numbers, and similar identification, where applicable.

#### 2.2 RECORD SPECIFICATIONS

- A. Mark specifications to indicate the actual product installation where installation varies from that indicated in Specifications.
  1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
  2. Mark copy with the proprietary name and model number of products, materials, and equipment furnished, including substitutions and product options selected.

## **PROJECT RECORD DOCUMENTS – 01 7839**

3. Record the name of manufacturer, supplier, Installer, and other information necessary to provide a record of selections made.
4. For each principal product, indicate whether record product data has been submitted in operation and maintenance manuals.
5. Note related Change Orders and record drawings where applicable.

### **PART 3 - EXECUTION**

#### **3.1 RECORDING AND MAINTENANCE**

- A. Store record documents at a location approved by the Owner and apart from the contract documents used for construction. Do not use record documents for construction purposes. Maintain record documents in good order and in a clean, dry, legible condition. Provide access to project record documents for Owner's reference during normal working hours. Owner may require updated record documents as a condition of authorizing progress payments.

**END OF SECTION 01 7839**

## **SECTION 02 4116 - BUILDING DEMOLITION**

### **PART 1 - GENERAL**

#### **1.1 RELATED SECTIONS**

- A. Section 01 1100 - Summary of Work
- B. Section 01 3100 - Project Management Coordination
- C. Section 01 5000 - Temporary Facilities and Controls
- D. Section 01 7700 - Closeout Procedures: Project Record Documents
- E. Section 02 8333 Removal and Disposal of Materials Containing Lead

#### **1.2 DEFINITION**

- A. Demolition: Completely tear down, remove and legally dispose of off-site.
- B. Salvage: Remove without damage for reuse.

#### **1.3 SUBMITTALS**

- A. Submit record of contractor demolition experience.
- B. Submit description of demolition and removal procedures including dust and noise control in accordance with Section 01 3300 - Submittal Procedures.
- C. Schedule: Submit schedule indicating proposed methods and sequence of operations for demolition work to the Owner for review prior to commencement of Work. Include coordination for shut-off, capping, and continuation of utility services as required, together with details for dust and noise control protection.
  - 1. Provide detailed sequence of demolition and removal work to ensure uninterrupted progress of the adjacent building's on-site operations.
  - 2. Coordinate with the continuing occupation of portions of adjacent existing building.

#### **1.4 QUALITY ASSURANCE**

- A. Demolition firm qualifications: Company with at least 5 years of successful completed demolition work similar to this project.
- B. Comply with governing authorities before starting demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.

#### **1.5 PRE-DEMOLITION MEETING**

- A. Meet with Owner's Representative to review methods, schedule and sequence of Work prior to start of Work. The Pre-demolition meeting shall be conducted in accordance with Pre-Installation meeting requirements, Section 01 3100.

## **1.6 EXISTING CONDITIONS**

- A. Conduct demolition to minimize interference with adjacent building areas. Maintain protected egress and access at all times.
- B. Provide, erect, and maintain temporary barriers and security devices.
- C. Notify Owner and Authorities owning or controlling affected services before starting operations and disconnecting services.
- D. Should materials, systems, or conditions be encountered that differ from those indicated, immediately notify Owner and do not proceed without approval.
- E. Hazardous Materials including lead containing paint is present. Refer to Owner's separate report and follow approved procedures.

## **1.7 CONDITION OF STRUCTURES**

- A. The Owner assumes no responsibility for actual condition of items or structures to be demolished.

## **1.8 OCCUPANCY OF ADJACENT BUILDING**

- A. The adjacent building that is structurally dependent on the JNU building to be demolished will be continuously occupied during the Work. Portions of the existing building will be provided for Contractor access and for the limited Work of this contract. Conduct demolition in manner that will minimize need for disruption of the adjacent building's normal operations.
- B. Provide minimum of 72 hours advance notice to the Owner of demolition activities, which will cause severe impact.

## **1.9 SALVAGE**

- A. Items indicated to be demolished or removed but of salvable value to Contractor may be removed from structure as Work progresses. Transport salvaged items from site as they are removed.
- B. Storage or sale of removed items on site is not permitted.
- C. Historic artifacts, including cornerstones and their contents, commemorative plaques and tablets, antiques, and other articles of historic significance remain the property of the Owner. Notify the Owner if such items are encountered and obtain acceptance regarding method of removal and salvage.



D. Items indicated to be salvaged for Owner reuse remain the Owner's property.

### **1.10 DAMAGES**

A. Promptly repair damages caused to adjacent facilities by demolition work at no cost to the Owner.

### **1.11 TRAFFIC**

A. Conduct demolition operations and debris removal in a manner to ensure minimum interference with roads, streets, walks and other adjacent occupied or used facilities.

B. Do not close, block or otherwise obstruct streets, walks or other occupied or used facilities without written permission from authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways if required by governing regulations.

## **PART 2 - PRODUCTS**

### **2.1 DUST BARRIERS**

A. Fabricate barriers from 6-mil thread reinforced plastic sheet, with lapped, stapled and taped seams, or other approved low permeability material.

B. Framing for barriers may be of wood or metal free from rough or sharp projections and edges, with sufficient strength to maintain integrity of dust controlling membrane.

### **2.2 PROTECTIVE RAILINGS**

A. Fabricate from wood, steel or other approved materials and anchor solidly to structure.

B. Railings shall withstand a 200-pound load applied in any direction at any point on the rail.

C. Railings shall withstand a load of 50 pounds per lineal foot applied horizontally at right angles to the top rail.

### **2.3 PROTECTION**

A. Provide protection from demolition and exterior weather as required preventing damage to existing finishes and equipment to remain.

B. Provide temporary shoring or supports as necessary to prevent any damage to the adjacent building and paving to remain while demolishing, and maintain until permanent structure is in place.

## **PART 3 - EXECUTION**

### **3.1 EXAMINATION**

- A. Prior to commencement of demolition work, inspect areas in which work will be performed. Photograph existing conditions at adjacent structure surfaces, equipment or to surrounding properties, which could be damaged resulting from demolition work; file with the Owner prior to starting work.

## **3.2 PREPARATION**

- A. Erect and maintain temporary partitions to prevent spread of dust, fumes, noise, and smoke. Provide temporary barricades and other forms of protection as required to protect the Owner's personnel and adjacent building users from injury due to demolition work.
  - 1. Protect from damage existing finish work that is to remain in place and that becomes exposed during demolition operations.
  - 2. Provide temporary weather protection to insure that no water leakage or damage occurs to structure or interior areas of adjacent existing building.
  - 3. Remove protections at completion of work.
- B. Protect existing items including electrical equipment, concrete slab, and site paving that are not indicated to be altered with plywood, tarps, and similar shielding.
- C. Remove and store in protected area items noted to be removed and reinstalled or salvaged.
- D. Disconnect, remove, cap, and seal designated utility services within demolition areas. Maintain and protect existing utilities indicated to remain.
- E. Mark location of disconnected utilities. Identify and indicate capping locations on Project Record Documents.

## **3.3 DEMOLITION**

- A. Demolish and remove all above-grade building items
- B. Do not disturb below grade surfaces.
- C. Except where noted otherwise, immediately remove demolished materials from site as work progresses.
- D. Erect and maintain temporary solid partitions and closures as required to separate areas where noisy or dusty demolition operations are performed to prevent spread of excessive noise, dust or fumes to occupied portions of the building and to protect interior of building from weather.
  - 1. Use water misting to limit dust and dirt rising and scattering in air. Do not create hazardous or objectionable ice, flooding or pollution when using water.
- E. Perform demolition work in a systematic orderly manner. Use such methods as required to complete work indicated on drawings in accordance with demolition schedule and governing regulations.
  - 1. Cut concrete and masonry at junctures with construction to remain using power-driven masonry saw or hand tools; do not use power-driven impact

- tools.
  - 2. Provide services for effective air and water pollution controls as required by local authorities having jurisdiction.
  - 3. Unbolt structural steel members where possible.
- F. Where demolition methods include flame cutting or grinding, provide separate personnel for fire watch during and for four-hours after flame cutting and grinding with appropriate hand held fire extinguishers.
- G. If unanticipated mechanical, electrical or structural elements which conflict with intended function or design are encountered, investigate and measure both nature and extent of the conflict. Submit report to the Owner in written, accurate detail. Pending receipt of directive from the Owner rearrange selective demolition schedule as necessary to continue overall job progress without delay.
- H. Do not use explosives.
- I. Do not burn or bury materials on site.

### **3.4 DISPOSAL OF DEMOLISHED MATERIALS**

- A. Remove debris, rubbish and other materials resulting from demolition operations from building site. Transport and legally dispose of materials off site as work progresses.
- 1. If unidentified hazardous materials are encountered during demolition operations, comply with applicable regulations, laws, and ordinances concerning removal, handling and protection against exposure or environmental pollution.

### **3.5 CLEAN-UP AND REPAIR**

- A. Upon completion of demolition work, remove tools, equipment and demolished materials from site. Remove protections.
- B. Leave site free from demolished building remains and broom sweep concrete slab to remain.
- C. Repair demolition performed in excess of that required. Return structures and surfaces to remain to condition existing prior to commencement of selective demolition work. Repair adjacent construction or surfaces soiled or damaged by selective demolition work.

**END OF SECTION 02 4116**

**SECTION 02 8333 – REMOVAL AND DISPOSAL OF MATERIALS  
CONTAINING LEAD**

**PART 1-GENERAL**

**1.1 RELATED DOCUMENTS**

- A.** General provisions of the Contract, including General and Supplementary Conditions;
- B.** Technical Specifications and Contract Drawings.

**1.2 SUMMARY**

- A.** A large portion of the work of this contract is to demolish the steel hangar building. See Section 01 1100 of these contract drawings for a Summary of Work. The lead removal work is in support of the demolition project.
- B.** Testing has identified lead-containing paint on the surfaces of the existing steel structure, and may include flaking paint chips within or around the building
- C.** The building is not residential or child-occupied, so the EPA RRP Rule is not applicable to this Project. OSHA Lead in Construction regulations apply.
- D.** The intent of the lead removal project is to:
  - 1. Properly control demolition of all lead-based materials on the project to assure that all paint debris is either segregated or entrained into the general waste stream and not left on the property; and
  - 2. Properly dispose of the combined waste stream from the project.
- E.** Overall sampling results indicate that the combined waste stream (lead-containing paint plus other demolition debris) is suitable for disposal in a non-hazardous landfill. Bidders shall assume that overall Toxicity Characteristic Leaching Procedure (TCLP) results will allow local disposal of demolition debris.
- F.** Contractor shall provide testing and analysis services to document the TCLP level of the waste generated on the project.
- G.** The lead removal portion of the Work includes all material, labor, equipment and other related costs for:
  - 1. mobilization (including moving all equipment and materials onto the site; providing necessary project utilities or improving existing utilities as necessary, arranging for approved storage areas, issuing and posting all notices, and submitting all submittals),
  - 2. installing all necessary critical barriers and engineering controls to control areas to isolate lead removal or disposal as necessary and to minimize the risk of employee exposure to lead in air during removal and disposal operations,
  - 3. providing a competent person to oversee abatement operations,
  - 4. cleaning surfaces and spaces within the confines of the control areas, as needed,
  - 5. disposing of hazardous materials and related demolition debris in accordance with these Contract Documents and authorities have jurisdiction,
  - 6. performing all required monitoring, and
  - 7. performing general cleanup and demobilization.

### 1.3 COORDINATION AND TIMING OF LEAD REMOVAL ACTIVITIES

- A. The Abatement Contractor shall coordinate with General Contractor for access to the site and shall comply with all necessary site security measures.
- B. It is the responsibility of the Abatement Contractor to coordinate with the General Contractor for scheduling abatement activities.
- C. The Owner will provide access to temporary power and to water for direct Project use. The Contractor is responsible for all costs and effort required to develop those utilities for use on this project.

### 1.4 REFERENCE SPECIFICATIONS, CODES, AND STANDARDS

- A. The publications listed below form a part of this specification to the extent referenced. The list is for reference only and may not be comprehensive. Publications on the list are referred to in the text by the basic designation only.
  - 1. Code of federal regulations (CFR):
    - 29 CFR 1910.134 Respiratory Protection
    - 29 CFR 1910.145 Specs for Accident Prevention Signs and Tags
    - 29 CFR 1926.62 Lead Exposures in Construction

Note: Alaska is a state plan state and the Division of Occupational Safety and Health (AKDOSH) is responsible for the enforcement of OSHA regulations. For projects falling under AKDOSH jurisdiction, 29 CFR 1926.62 takes precedence.

    - 40 CFR 241 Guidelines for Land Disposal of Solid Wastes
- B. State Of Alaska Regulations
  - 1. Alaska Administrative Code (AAC):
    - 8 AAC 61 Occupational Safety and Health Standards
    - 18 AAC 60 Solid Waste Management
    - 18 AAC 62 Hazardous Waste Management
- C. Other references:
  - 1. National Institute of Occupational Safety and Health (NIOSH)
    - NIOSH-7082 Manual of Analytical Methods, 3rd edition (1984)
    - NIOSH-7105 Manual of Analytical Methods, 3rd edition (1984)
  - 2. Underwriters laboratories (UL)
    - UL 586 High-Efficiency Particulate Air (HEPA) Filter Units

### 1.5 DEFINITIONS

- A. Abatement: A process of reducing potential exposure to lead and lead dust, which includes removal, testing, worker protection, contaminant containment, cleanup, waste disposal, and clearance testing.
- B. Abatement Contractor: Any business entity or person performing the work for a lead abatement project. Also referred to in this specification as Contractor.

- C.** Abrasive Removal: The removal of lead-based paint using mechanical means such as chipping, grinding, sanding, sand blasting, etc.
- D.** Action Level (AL): The concentration of lead in air of 30 micrograms per cubic meter of air (30 µg/m<sup>3</sup>) averaged over an 8-hour period.
- E.** Biological Monitoring: The collection and analysis of a person's blood to determine the level of lead in the body. Biological monitoring is required when the employee is exposed above the action level for 30 days or more per year. The blood lead level that requires medical removal is 50 µg/dl.
- F.** Chemical Removal: The removal of lead-based paint using chemical paint strippers.
- G.** Competent Person: The on-site supervisor, designated by the Contractor, who has been certified as a lead abatement Contractor/Supervisor by successfully completing an EPA-accredited course.
- H.** Contained Work Area: An enclosed lead abatement work area constructed and equipped with a negative pressure exhaust system so that lead dust and fumes will not migrate out and contaminate non-work areas.
- I.** Disposal Facility: A permitted, licensed, or approved facility at which solid or hazardous waste is permanently placed.
- J.** Encapsulation: Coating and sealing of surfaces with durable, paint-like coatings specifically formulated to prevent the chalking and flaking of lead-containing substances.
- K.** Enclosure: Barricading lead-painted surfaces behind or within a durable barrier to make them permanently inaccessible.
- L.** Engineering Controls: Temporary measures implemented at a work site to contain, control, and reduce worker exposure to lead.
- M.** EPA Identification: The unique number assigned by the environmental protection agency (EPA) to each generator or transporter of hazardous waste and each treatment, storage, or disposal (TSD) facility.
- N.** Hazardous Waste Generator: An entity that causes a hazardous waste to be created, or an entity that first makes the waste subject to regulation.
- O.** Hazardous Waste: Lead abatement waste which, when tested using the TCLP procedure, has more than five milligrams per liter (5 mg/l) of lead in the extract.
- P.** High-Efficiency, Particulate, Air (HEPA) filter: A filter capable of removing particles of 0.3 microns or greater from air with 99.97 percent efficiency. HEPA filters do not remove lead fumes.
- Q.** High Phosphate Detergent: Cleaning agent used in wet-washing that contains at least 5% trisodium phosphate.

- R.** Certified Industrial Hygienist: A person certified in the comprehensive practice of industrial hygiene by the American board of industrial hygiene (ABIH).
- S.** Industrial Hygienist: An individual certified by the ABIH and having significant prior experience in managing and evaluating the health and safety aspects on projects of similar nature and scope to ensure capability of performing the work in a satisfactory manner. Prior project similarities shall be in areas related to material composition, project size, number of employees, and in the engineering, work practice, environmental, and personal protection required. An equivalent individual, such as a licensed professional safety engineer, certified safety professional, or other qualified person with a minimum of five years' experience in industrial hygiene, including extensive experience in the management and evaluation of health and safety aspects of lead abatement, may substitute for the industrial hygienist, subject to the approval of the Owner. The industrial hygienist shall be responsible for all monitoring, training, abatement work, and for ensuring that the Contractor complies with all safety and health requirements prescribed by state and federal regulations as well as these specifications. The industrial hygienist is also responsible for ensuring that competent persons perform all assigned duties in accordance with this specification and applicable federal and state regulations.
- T.** Lead: Metallic lead, all inorganic lead compounds, and organic lead soaps. Welding, cutting, and burning operations may generate lead fumes.
- U.** Lead Abatement Work Area: An area in which lead abatement or disturbance activities take place and in which the concentration of lead in air exceeds or can be reasonably expected to exceed the action level.
- V.** Manifest: The shipping document, as required by EPA and DOT, used for identifying the quantity, composition, origin, routing, and destination of hazardous waste during its transportation from the point of generation to the point of treatment, storage, or disposal.
- W.** Negative Pressure Exhaust Systems: A fan system that creates a negative air pressure within a contained work area by exhausting air from the area through a HEPA filter.
- X.** Permissible Exposure Limit (PEL): An 8-hour time weighted average (TWA) exposure to lead of 50 micrograms per cubic meter of air (50  $\mu\text{g}/\text{m}^3$ ). If exposure to lead exceeds an 8-hour period, the PEL is reduced according to the following formula:  

$$\text{Maximum PEL (in } \mu\text{g}/\text{m}^3) = 400/\text{number of hours worked in a day.}$$
- Y.** Personal air samples: Air samples collected in the breathing zone of a worker, but outside the respirator.
- Z.** Solid Waste: As defined in RCRA the term "solid waste" includes any refuse, and other discarded material resulting from construction operations.
- AA.** Storage: The holding of hazardous waste for a temporary period, at the end of which the hazardous waste is treated, disposed of, or stored elsewhere.
- BB.** Substrate: The material that is coated, usually composed of wood, plaster, or metal, including items such as door frames, window trim, walls, baseboards, etc.
- CC.** Surface: The outer or topmost boundary of a substrate.

**DD.** Toxicity Characteristic Leaching Procedure (TCLP): Test method 1311 as defined by 40 CFR 261.24, Appendix II.

**EE.** Transporter: Any person engaged in off-site transportation of hazardous waste.

## **1.6 ABBREVIATIONS**

ABIH American Board of Industrial Hygiene  
ADEC State of Alaska Department of Environmental Conservation  
AKDOSH State of Alaska Division of Occupational Safety and Health  
AIHA American Industrial Hygiene Association  
AL Action Level  
BLL Blood Lead Level  
DOT U.S. Department of Transportation  
EPA U.S. Environmental Protection Agency  
HEPA High-Efficiency, Particulate, Air (filter)  
MSDS Material Safety Data Sheet  
NIOSH National Institute for Occupational Safety and Health  
OSHA U.S. Occupational Safety and Health Administration  
PEL Permissible Exposure Limit  
RCRA Resource Conservation and Recovery Act  
TCLP Toxicity Characteristic Leaching Procedure  
TCP Tricresyl Phosphate  
TSD Transportation, Storage or Disposal (facility)  
TSP Trisodium Phosphate  
XRD X-Ray Diffraction  
XRF X-Ray Fluorescence

## **1.7 PRE-WORK SUBMITTALS**

**A.** The Pre-Work Submittal shall be submitted digitally as a complete package and modified as necessary to obtain approval by the Engineer five working days prior to any work on the project. The abatement Contractor shall perform its work in compliance with the approved Pre-Work Submittal that shall include:

1. Hazardous Materials Work Plan: Prepare a detailed plain language plan covering the Work procedures to be used during each and all operations involving hazardous materials. Annotated building plans or site plans no larger than 11 inches by 17 inches shall be included to detail locations for control areas, monitoring locations, access and disposal routes, and other activities where needed. The plan shall include as a minimum the following elements:
2. Detailed approach to controlling lead on the project;
3. Schedule for lead activities;
4. Testing Laboratory: Submit the name, address, telephone number and qualifications of the independent testing laboratory selected to perform the monitoring, testing and reporting of airborne lead
5. Training: Submit certificates signed by each employee and the Industrial Hygienist that each employee has received the training required by 29 CFR 1926.62, and appropriate State of Alaska Regulations and this specification. Include proof that each



- employee has completed lead awareness training.
6. Protective Equipment and Protective Method Plans: Details of planned personnel protective equipment requirements and protective methods, including respirators as will be required for each specific type of operation or condition. Include supporting justification when alternate (e.g., less than the maximum specified) protection is proposed.
  7. Manufacturer's Data: Provide complete manufacturer's information, including maintenance and usage instructions, on all specialized equipment to be used for lead Work, including, but not limited to:
    - Vacuum equipment
    - Respirators
    - Safety Data Sheets (SDS): Provide copies of the SDS for each chemical, adhesive, sealant, foam, glue, additive for creation of the amended water, and paints to be utilized, as well as any other material requiring this reporting in accordance with Federal Standard 313B. This requirement is in addition to the requirement for submittal of material data sheets specified elsewhere in the specifications.
- B.** Any changes to procedures, methods, conditions, etc., identified in the approved Pre-Work Submittal must be submitted in writing for review and approval by the Engineer prior to the inception of the change. Where changes must be implemented immediately for the protection of workers, personnel outside the Work area, the structure or the environment, and the change established an environment more stringent than that previously existing, the changes may be implemented by the competent person or other individuals with appropriate authority, and the Engineer notified immediately. These changes will then be submitted in writing within 24 hours for final review and approval.
- C.** Any analytical data collected as part of the pursuit of the Work shall be submitted to the Owner within 24 hours of receipt of such data.

## **1.8 POST-WORK SUBMITTALS**

- A.** A digital version of the post-Work submittal shall be submitted. The following items shall be included and approved by the Engineer as complete before final payment is approved:
1. A copy of all shipping manifests that document disposal of all hazardous materials at an approved solid waste facility.

## **PART 2-PRODUCTS – NOT USED**

## **PART 3-EXECUTION**

### **3.1 PROTECTION OF ADJACENT AREAS**

- A.** Perform all hazardous materials Work in such a way as to not contaminate adjacent areas. Such areas or spaces are assumed free of lead dust contamination, and if they are found to be contaminated after abatement activities, they shall be cleaned and/or restored to their original condition as directed by the Engineer at the Abatement Contractor's expense.

### **3.2 NOTIFICATIONS AND PERMITS**

- A. The Abatement Contractor shall notify the Engineer 48 hours prior to commencement of any abatement Work, and immediately upon completion or termination of the Work. Where any emergency removal is required, notifications will be made immediately, but Work schedules will not be contingent on the notification timing specified in the paragraph.
- B. The Abatement Contractor shall carry out disposal in accordance with state and federal requirements; shall secure necessary permits in conjunction with leadremoval and transport; and provide timely notification of such actions as may be required by Federal, State, regional and local authorities.

### **3.3 PROJECT INSPECTION**

- A. While performing lead Work, the Abatement Contractor may be subject to on- site inspection by the Owner, the Engineer (or designated representative), fire, safety, and health personnel, and Federal and State inspectors. If the Work is in violation of specification requirements, or applicable Federal, State, regional, or local regulations, the Engineer may issue a stop-Work order to be in effect immediately that will remain in place until the violation(s) are resolved and, if required by the Engineer, a new or amended lead Work plan is submitted. Restart will not be accomplished without approval of the Engineer. Standby time and expenses required to resolve the violation(s) and provide new or amended submittals shall be at the Abatement Contractor's expense.
- B. The Project Work Log (see Paragraph 1.7A.1 above) shall be subject to review by the Owner and the Engineer on a daily basis and at each Application for Payment by the Abatement Contractor.

### **3.4 SAFETY AND HEALTH COMPLIANCE**

- A. The Abatement Contractor shall comply with all laws, ordinances, rules and regulations of Federal, State, regional and local authorities regarding demolition, handling, storing, transporting and disposing of lead and lead containing materials. The Contractor shall also comply with the applicable requirements of the current issues of 29 CFR 1910.1001, 29 CFR 1926.1101, 40 CFR 61 Subparts A and M, and 40 CFR 745. Lead removal is also required to comply with the provisions of the State of Alaska, Solid Waste Management Codes, title 18 of the Alaska Administrative Code, and the State of Alaska AKOSH Standards.

### **3.5 LEAD DUST WORK PROCEDURES**

- A. To ensure worker safety, the following procedures shall be used when removing lead hazards:
  1. Ensure that abatement employees have completed OSHA Lead in Construction training, and appropriate training under the EPA Renovation, Repair, and Painting (RRP) Rule,
  2. Install appropriate engineering controls to minimize the risk of employee exposure to lead in air during demolition, cleaning, and disposal operations,
  3. Ensure that respirators are worn by all lead workers at all times, and
  4. Provide laboratory results showing that the waste stream or a mass balance of the waste stream and the TCLP results show that all demolition debris from this project may be disposed of as regular demolition debris at the local landfill or other approved location.

### **3.6 MONITORING**

- A. At a minimum, the Abatement Contractor shall provide "Initial Exposure Assessment

Monitoring” and “Personal Monitoring”, all as specified in Paragraph 1.5 “DEFINITIONS”, above.

**3.7 CLEARANCE PROCEDURES FOR EACH ABATEMENT AREA:**

- A.** After all lead work activities are complete, the Abatement Contractor and the Owner’s Representative shall perform a detailed visual inspection of the Work area for any visible lead dust residual. If any is found, a complete cleaning of the area shall be performed, and the area shall be re-inspected. Once the visual inspection is satisfactorily completed, the area shall be considered cleared of lead-based wastes.
  
- B.** The Abatement Contractor shall be responsible for all costs relating to all clearance inspections after the first failed clearance inspection, and for any additional clearance inspections added to the project to improve the General Contractor’s schedule. The Abatement Contractor is responsible for coordinating inspection trips with the Owner’s Representative.

**END OF SECTION 02 8333**

# SECTION 02 8334 – HAZARDOUS MATERIALS SURVEY

## PART 1 - GENERAL

### 1.1 SUMMARY

- A. The building was tested for the presence of hazardous materials. Results are summarized in the report herein.



November 14, 2019

Ms. Catherine Fritz, AIA  
Juneau International Airport  
1873 Shell Simmons Drive  
Juneau, AK 99801

Re: JNU Sand Storage Building Hazardous Materials Survey

Dear Ms Fritz,

On October 3, 2019, I performed a hazardous materials survey of Sand Storage Building at the Juneau International Airport (JNU). The subject building lies directly east of the JNU terminal and rental car parking area, occupying the left side of a large hangar, as shown in Figure 1. The building is a large open structure with two mezzanine levels, as shown in Figure 2.

FIGURE 1. JNU Sand Storage Building Location



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222 Seward Street, Suite 205 • Juneau, AK 99801 • 907.723.8896  
[www.dahlberg.design](http://www.dahlberg.design)

FIGURE 2. Sand Storage Building, Views A-D



A walkthrough of the building was performed to identify materials suspect for asbestos or lead content, as well as mercury, PCBs, or other environmental hazards.

#### ASBESTOS SAMPLING

Gypsum wallboard on the southwest corner of the main level of the building was the only material suspect for asbestos content. Three samples of wallboard with associated taping mud were collected for analysis for asbestos content by polarized light microscopy and were submitted to ATC Laboratories, a NVLAP-certified laboratory located in Anchorage, Alaska.

No asbestos was detected in any of the wallboard samples. No special handling of this material is required.

#### LEAD SAMPLING

Five paint chip samples were collected to characterize the existing finishes. Exterior siding, structural steel, and staircase elements were tested for lead paint via atomic absorption spectrometry at ATC Laboratory, an EPA-accredited Laboratory in Anchorage Alaska.



No lead was detected in the paint on the exterior siding.

The following coatings were found to contain measurable lead:

- White paint and primer on steel columns in main hangar (2,600ppm)
- Gray/white paint on underside of mezzanine floor pan (31,000ppm)
- White paint and red primer on steel mezzanine framing (13,000ppm); and
- Dark gray paint on steel staircases, trim, and mezzanine floor (5,900ppm).

Materials that contain any measurable lead must be disturbed only by workers holding current OSHA Lead in Construction training, following current federal, state, and municipal regulations for removal and disposal of lead.

Disposal of materials will require either a TCLP sample to demonstrate the leachability of the paint is within guidelines to be delivered to a local landfill.

Sample results are found in the attached laboratory reports.

#### OTHER HAZARDS

No mercury thermostats were identified during the inspection. Lighting was generally incandescent or natural light coming through fiberglass roof panels.

Heating ducts on the mezzanine were inspected—they were not lined and did not appear to have any sealants associated with them.

Drums of various fluids for equipment maintenance are stored on the main level under the mezzanine. It is assumed that these will be used or moved to a new location when the building is vacated; disposal of these items is not part of the scope of this report.

#### CONCERNS

Lead-containing paint from the underside of the floor pan is in poor condition; large strips of it are peeling off the floor pan and could easily be broadcast by a wind event. This material should be stabilized as soon as possible. Options are to remove the paint or to attempt to re-adhere it with a spray encapsulant.

If the paint is removed, it should be put in drums or super-sacks until the leachability of the lead is known.

#### RECOMMENDATIONS

Any work performed on the building must be done by workers holding current OSHA Lead in Construction training. The lead concentration in the paint on the mezzanine floor pan and mezzanine framing is quite high; it would be prudent to collect a sample for TCLP analysis before planning any demolition for this structure.




Some elements, such as the columns in the main hangar and the mezzanine framing and staircases are good candidates for recycling and could be excluded from the waste stream that will be directed to the landfill. Most metal recycling firms will accept steel with lead-containing finishes, but this would need to be verified at the time of recycling.

No other hazardous materials were identified in the building.

Please let me know if you have any questions.

Regards,



Sigrid Dahlberg, P.E.

Principal Engineer

AHERA Project Designer No. 175200

AHERA Building Inspector No. 175161

EPA Lead Renovator #R-I-42872-16-10239





383 Industrial Way Suite 300  
Anchorage, AK 99501 (907) 258-8661



Lab Code: 200124-0

## Bulk Sample Analysis for Asbestos

ATC Project #: LL08141

Report #: 664007  
Report By: J. Jaroma  
Report Date: 10/10/2019

**Client: Dahlberg Design**  
222 Seward St. Suite 205  
Juneau, AK 99801  
Billing Number: 26026

Collected By: Client  
Collection Date: 10/03/2019  
Analysis By: J. Hicklin  
Analysis Date: 10/10/2019  
Received By: J. Jaroma  
Received Date: 10/07/2019

TAT: 72 Hour

Sample Count: 3 Layer Count: 3

Project Name/Location: JNU Sand Storage Building Hazmat Sampling

Client ID #	ATC ID#	Location:	Homogenous	Material	Color	Layer
Sand A-1	AB19-7038	Lower Mezz	No	GWB	Off-White	1 of 1
<b>Asbestos: None Detected</b>						
				Other Fibrous Material	Fibrous %	
				Cellulose	5%	
					Other Fibrous Materials:	5%
					Non-Fibrous Materials:	95%

Sample Comments: No Surfacing In Sample

Client ID #	ATC ID#	Location:	Homogenous	Material	Color	Layer
Sand A-2	AB19-7039	Mid Mezz Floor	No	Tar Paper	Black	1 of 1
<b>Asbestos: None Detected</b>						
				Other Fibrous Material	Fibrous %	
				Cellulose	70%	
					Other Fibrous Materials:	70%
					Non-Fibrous Materials:	30%

Client ID #	ATC ID#	Location:	Homogenous	Material	Color	Layer
Sand A-3	AB19-7040	Lower Mezz Back	No	Mud	Off-White	1 of 1
<b>Asbestos: None Detected</b>						
				Other Fibrous Material	Fibrous %	
				Cellulose	Trace	
					Other Fibrous Materials:	TRACE
					Non-Fibrous Materials:	100%





383 Industrial Way Suite 300  
Anchorage, AK 99501 (907) 258-8661

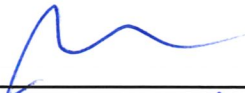


Lab Code: 200124-0

**Bulk Sample Analysis for Asbestos**

ATC Project #: LL08141

Report #: 664007  
Report By: J. Jaroma  
Report Date: 10/10/2019

  
\_\_\_\_\_  
Joel Hicklin, Laboratory Technical Manager

\_\_\_\_\_  
10/10/2019  
Date

  
\_\_\_\_\_  
Date

\_\_\_\_\_  
10/10/2019  
Date

Analysis performed by: EPA Method 600/M4-82-020 or EPA Method 600/R-93/116, at the discretion of the client or ATC. All quantities reported are based on visual estimation by PLM, unless point-counting method is requested and noted for the sample. Test report relates only to items tested and must not be used by client to claim product endorsement by NVLAP or any agency of the U.S. Government. Test reports must not be reproduced without the approval of ATC, and are subject to ATC General Terms and Conditions (available upon request).

LL 8141

# CHAIN OF CUSTODY/TRANSMITTAL RECORD

Project Name:

JNU Sand Storage Building HazMat Sampling

Sampler(s):

Sigrd Dahlberg

Comments:

Pre-demolition sampling of JNU section of hangar



222 Seward St, Suite 105

Juneau, AK 99801

907.723.8800

HAZARDOUS MATERIAL SURVEY 02 8334-7

DATE	TIME	SAMPLE ID & LOCATION	MATRIX	QTY	ANALYSIS		LAB NO.	COMMENTS
					PLM	Lead		
3-Oct-19		SAND-A1, A2, A3	Bulk	3	✓			
		A1 - GWB/mud lower mezz						
		A2 - Tar paper, mid mezz floor						
		A3 - GWB/mud lower mezz back						
3-Oct-19		SAND-L1 thru L5	Paint chip	5		✓		
		L1 - white paint on steel columns in main hangar, including primer						
		L2 - gray over white paint on underside of floor pan in mezz, typ						
		L3 - white paint on steel mezz framing, over red lead primer						
		L4 - dark gray on steel stairs, trim, floor in mezz						
		L5 - olive over w hilte on steel exterior siding						

RELINQUISHED BY:

*Sigrd Dahlberg*

RECEIVED BY:

*JMS*

DATE/TIME

*10/7/19 @ 11:15am*

COMMENTS

RELINQUISHED BY:

*[Signature]*

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DATE/TIME

COMMENTS

RELINQUISHED BY:

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DATE/TIME

COMMENTS

TEMPERATURE RECEIVED:

TURNAROUND TIME REQUESTED:

3 days

JNU SAND SHED DEMOLITION BE20-187

*DD Project # 1904B*



# CHAIN OF CUSTODY/TRANSMITTAL RECORD

LL 8145

Project Name: JNU Sand Storage Building HazMat Sampling

Sampler(s): Sigrid Dahlberg

Comments: Pre-demolition sampling of JNU section of hangar



222 Seward St, Suite 205  
Juneau, AK 99801  
907.723.8896

DATE	TIME	SAMPLE ID & LOCATION	MATRIX	QTY	ANALYSIS		LAB NO.	COMMENTS
					PLM	Lead		
3-Oct-19		SAND-A1, A2, A3	Bulk	3	✓			
		A1-GWB/mud lower mezz						
		A2 - Tar paper, mid mezz floor						
		A3 - GWB/mud lower mezz back						
3-Oct-19		SAND-L1 thru L5	Paint chip	5		✓		
		L1 - white paint on steel columns in main hangar, including primer						
		L2 - gray over white paint on underside of floor pan in mezz, hyp						
		L3 - white paint on steel mezz framing, over red lead primer						
		L4 - dark gray on steel stairs, trim, floor in mezz						
		L5 - olive over w hite on steel exterior siding						

RELINQUISHED BY: <i>[Signature]</i>	DATE/TIME: 4 Oct 2019 12M	RECEIVED BY: JMS	DATE/TIME: 10/7/19 @ 1:15pm	COMMENTS:
RELINQUISHED BY: <i>[Signature]</i>	DATE/TIME:	RECEIVED BY:	DATE/TIME:	COMMENTS:
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:	COMMENTS:
TEMPERATURE RECEIVED:	TURNAROUND TIME REQUESTED: 3 days			

DD Project No 1904b

**SECTION 02 8334 – HAZARDOUS MATERIALS SURVEY**

**PART 2-PRODUCTS – NOT USED**

**PART 3-EXECUTION – NOT USED**

**END OF SECTION**

## **SECTION 03 3000**

### **CAST-IN-PLACE CONCRETE**

#### **PART 1 - GENERAL**

##### **1.1 RELATED DOCUMENTS**

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

##### **1.2 SUMMARY**

- A. Section includes cast-in-place concrete, including formwork, reinforcement, concrete materials, mixture design, placement procedures, and finishes.

##### **1.3 DEFINITIONS**

- A. Cementitious Materials: Portland cement alone or in combination with one or more of the following: blended hydraulic cement, fly ash, slag cement, other pozzolans, and silica fume; materials subject to compliance with requirements.
- B. W/C Ratio: The ratio by weight of water to cementitious materials.

##### **1.4 PREINSTALLATION MEETINGS**

- A. Preinstallation Conference: Conduct conference at Project site.
  - 1. Before submitting design mixtures, review concrete design mixture and examine procedures for ensuring quality of concrete materials. Require representatives of each entity directly concerned with cast-in-place concrete to attend.
  - 2. Review special inspection and testing and inspecting agency procedures for field quality control, concrete finishes and finishing, cold- and hot-weather concreting procedures, curing procedures, construction contraction and isolation joints, and joint-filler strips, vapor-retarder installation, anchor rod and anchorage device installation tolerances, steel reinforcement installation, methods for achieving specified floor and slab flatness and levelness and concrete protection.

##### **1.5 ACTION SUBMITTALS**

- A. Product Data: For each type of product.
- B. Design Mixtures: For each concrete mixture. Submit alternate design mixtures when characteristics of materials, Project conditions, weather, test results, or other circumstances warrant adjustments.
  - 1. Indicate amounts of mixing water to be withheld for later addition at Project site.

- C. Steel Reinforcement Shop Drawings: Placing Drawings that detail fabrication, bending, and placement. Include bar sizes, lengths, material, grade, bar schedules, stirrup spacing, bent bar diagrams, bar arrangement, splices and laps, mechanical connections, tie spacing, hoop spacing, and supports for concrete reinforcement.

## **1.6 INFORMATIONAL SUBMITTALS**

- A. Qualification Data: For Installer, Manufacturer.
- B. Welding certificates.
- C. Material Certificates: For each of the following, signed by manufacturers:
  - 1. Cementitious materials.
  - 2. Admixtures.
  - 3. Steel reinforcement and accessories.
- D. Material Test Reports: For the following, from a qualified testing agency:
  - 1. Aggregates.
- E. Buy American Certification: Manufacturer's letters of compliance acceptable to authorities having jurisdiction, indicating that products comply with requirements.
- F. Field quality-control reports.
- G. Minutes of preinstallation conference.

## **1.7 QUALITY ASSURANCE**

- A. Installer Qualifications: A qualified installer who employs on Project personnel qualified as ACI-certified Flatwork Technician and Finisher and a supervisor who is an ACI-certified Concrete Flatwork Technician.
- B. Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products and that complies with ASTM C 94/C 94M requirements for production facilities and equipment.
  - 1. Manufacturer certified according to NRMCA's "Certification of Ready Mixed Concrete Production Facilities."
- C. Testing Agency Qualifications: An independent agency, qualified according to ASTM C 1077 and ASTM E 329 for testing indicated.
  - 1. Personnel conducting field tests shall be qualified as ACI Concrete Field Testing Technician, Grade 1, according to ACI CP-1 or an equivalent certification program.
  - 2. Personnel performing laboratory tests shall be ACI-certified Concrete Strength Testing Technician and Concrete Laboratory Testing Technician, Grade I. Testing agency laboratory supervisor shall be an ACI-certified Concrete Laboratory Testing Technician, Grade II.
- D. Welding Qualifications: Qualify procedures and personnel according to AWS D1.4/D 1.4M.

## **1.8 PRECONSTRUCTION TESTING**

- A. Preconstruction Testing Service: Engage a qualified testing agency to perform preconstruction testing on concrete mixtures.

## **1.9 DELIVERY, STORAGE, AND HANDLING**

- A. Steel Reinforcement: Deliver, store, and handle steel reinforcement to prevent bending and damage.

## **1.10 FIELD CONDITIONS**

- A. Cold-Weather Placement: Comply with ACI 306.1 and as follows. Protect concrete work from physical damage or reduced strength that could be caused by frost, freezing actions, or low temperatures.
  - 1. When average high and low temperature is expected to fall below 40 deg F for three successive days, maintain delivered concrete mixture temperature within the temperature range required by ACI 301.
  - 2. Do not use frozen materials or materials containing ice or snow. Do not place concrete on frozen subgrade or on subgrade containing frozen materials.
  - 3. Do not use calcium chloride, salt, or other materials containing antifreeze agents or chemical accelerators unless otherwise specified and approved in mixture designs.

## **PART 2 - PRODUCTS**

### **2.1 CONCRETE, GENERAL**

- A. ACI Publications: Comply with the following unless modified by requirements in the Contract Documents:
  - 1. ACI 301.
  - 2. ACI 117.

### **2.2 FORM-FACING MATERIALS**

- A. Smooth-Formed Finished Concrete: Form-facing panels that provide continuous, true, and smooth concrete surfaces. Furnish in largest practicable sizes to minimize number of joints.
  - 1. Plywood, metal, or other approved panel materials.
  - 2. Exterior-grade plywood panels, suitable for concrete forms, complying with DOC PS 1, and as follows:
    - a. High-density overlay, Class 1 or better.
    - b. Medium-density overlay, Class 1 or better; mill-release agent treated and edge sealed.
    - c. Structural 1, B-B or better; mill oiled and edge sealed.
    - d. B-B (Concrete Form), Class 1 or better; mill oiled and edge sealed.
- B. Rough-Formed Finished Concrete: Plywood, lumber, metal, or another approved material. Provide lumber dressed on at least two edges and one side for tight fit.
- C. Chamfer Strips: Wood, metal, PVC, or rubber strips, 3/4 by 3/4 inch, minimum.



- D. Form-Release Agent: Commercially formulated form-release agent that does not bond with, stain, or adversely affect concrete surfaces and does not impair subsequent treatments of concrete surfaces.
  - 1. Formulate form-release agent with rust inhibitor for steel form-facing materials.
- E. Form Ties: Factory-fabricated, removable or snap-off glass-fiber-reinforced plastic or metal form ties designed to resist lateral pressure of fresh concrete on forms and to prevent spalling of concrete on removal.
  - 1. Furnish units that leave no corrodible metal closer than 1 inch to the plane of exposed concrete surface.
  - 2. Furnish ties that, when removed, leave holes no larger than 1 inch in diameter in concrete surface.
  - 3. Furnish ties with integral water-barrier plates to walls indicated to receive dampproofing or waterproofing.

### **2.3 STEEL REINFORCEMENT**

- A. Reinforcing Bars: ASTM A 615/A 615M, Grade 60, deformed.
- B. Plain-Steel Welded-Wire Reinforcement: ASTM A 1064/A 1064M, plain, fabricated from as-drawn steel wire into flat sheets.

### **2.4 CONCRETE MATERIALS**

- A. Source Limitations: Obtain each type or class of cementitious material of the same brand from the same manufacturer's plant, obtain aggregate from single source, and obtain admixtures from single source from single manufacturer.
- B. Cementitious Materials:
  - 1. Portland Cement: ASTM C 150/C 150M, Type I/II, gray.
- C. Normal-Weight Aggregates: ASTM C 33/C 33M, Class 3S coarse aggregate or better, graded. Provide aggregates from a single source.
  - 1. Maximum Coarse-Aggregate Size: 1 inch nominal.
  - 2. Fine Aggregate: Free of materials with deleterious reactivity to alkali in cement.
- D. Air-Entraining Admixture: ASTM C 260/C 260M.
- E. Chemical Admixtures: Certified by manufacturer to be compatible with other admixtures and that do not contribute water-soluble chloride ions exceeding those permitted in hardened concrete. Do not use calcium chloride or admixtures containing calcium chloride.
  - 1. Water-Reducing Admixture: ASTM C 494/C 494M, Type A.
  - 2. High-Range, Water-Reducing Admixture: ASTM C 494/C 494M, Type F.
- F. Water: ASTM C 94/C 94M and potable.

## **2.5 CURING MATERIALS**

- A. Evaporation Retarder: Waterborne, monomolecular film forming, manufactured for application to fresh concrete.
- B. Absorptive Cover: AASHTO M 182, Class 2, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd. when dry.
- C. Moisture-Retaining Cover: ASTM C 171, polyethylene film or white burlap-polyethylene sheet.
- D. Water: Potable.
- E. Clear, Waterborne, Membrane-Forming Curing Compound: ASTM C 309, Type 1, Class B, dissipating.

## **2.6 RELATED MATERIALS**

- A. Expansion- and Isolation-Joint-Filler Strips: ASTM D 1751, asphalt-saturated cellulosic fiber.
- B. Semirigid Joint Filler: Two-component, semirigid, 100 percent solids, epoxy resin with a Type A shore durometer hardness of 80 according to ASTM D 2240.
- C. Bonding Agent: ASTM C 1059/C 1059M, Type II, nonredispersible, acrylic emulsion or styrene butadiene.

## **2.7 CONCRETE MIXTURES, GENERAL**

- A. Prepare design mixtures for each type and strength of concrete, proportioned on the basis of laboratory trial mixture or field test data, or both, according to ACI 301.
  - 1. Use a qualified independent testing agency for preparing and reporting proposed mixture designs based on laboratory trial mixtures.
- B. Limit water-soluble, chloride-ion content in hardened concrete to 0.15 percent by weight of cement.
- C. Admixtures: Use admixtures according to manufacturer's written instructions.
  - 1. Use water-reducing or high-range water-reducing admixture in concrete, as required, for placement and workability.
  - 2. Use water-reducing admixture in pumped concrete, concrete for heavy-use industrial slabs and parking structure slabs, concrete required to be watertight, and concrete with a w/c ratio below 0.50.

## **2.8 CONCRETE MIXTURES FOR BUILDING ELEMENTS**

- A. Exterior concrete and slabs exposed to freezing: Normal-weight concrete.
  - 1. Minimum Compressive Strength: 4500 psi at 28 days.
  - 2. Maximum W/C Ratio: 0.45.
  - 3. Slump Limit: 4 inches, plus or minus 1 inch.
  - 4. Air Content: 6 percent, plus or minus 1.5 percent at point of delivery for 1-inch nominal maximum aggregate size.

## **2.9 FABRICATING REINFORCEMENT**

- A. Fabricate steel reinforcement according to CRSI's "Manual of Standard Practice."

## **2.10 CONCRETE MIXING**

- A. Ready-Mixed Concrete: Measure, batch, mix, and deliver concrete according to ASTM C 94/C 94M, and furnish batch ticket information.

## **PART 3 - EXECUTION**

### **3.1 FORMWORK INSTALLATION**

- A. Design, erect, shore, brace, and maintain formwork, according to ACI 301, to support vertical, lateral, static, and dynamic loads, and construction loads that might be applied, until structure can support such loads.
- B. Construct formwork so concrete members and structures are of size, shape, alignment, elevation, and position indicated, within tolerance limits of ACI 117.
- C. Limit concrete surface irregularities, designated by ACI 347 as abrupt or gradual, as follows:
  - 1. Class A, 1/8 inch for smooth-formed finished surfaces.
  - 2. Class B, 1/4 inch for rough-formed finished surfaces.
- D. Construct forms tight enough to prevent loss of concrete mortar.
- E. Construct forms for easy removal without hammering or prying against concrete surfaces. Provide crush or wrecking plates where stripping may damage cast-concrete surfaces. Provide top forms for inclined surfaces steeper than 1.5 horizontal to 1 vertical.
  - 1. Install keyways, reglets, recesses, and the like, for easy removal.
  - 2. Do not use rust-stained steel form-facing material.
- F. Set edge forms, bulkheads, and intermediate screed strips for slabs to achieve required elevations and slopes in finished concrete surfaces. Provide and secure units to support screed strips; use strike-off templates or compacting-type screeds.
- G. Provide temporary openings for cleanouts and inspection ports where interior area of formwork is inaccessible. Close openings with panels tightly fitted to forms and securely braced to prevent loss of concrete mortar. Locate temporary openings in forms at inconspicuous locations.
- H. Chamfer exterior corners and edges of permanently exposed concrete.
- I. Form openings, chases, offsets, sinkages, keyways, reglets, blocking, screeds, and bulkheads required in the Work. Determine sizes and locations from trades providing such items.
- J. Clean forms and adjacent surfaces to receive concrete. Remove chips, wood, sawdust, dirt, and other debris just before placing concrete.
- K. Retighten forms and bracing before placing concrete, as required, to prevent mortar leaks and maintain proper alignment.

- L. Coat contact surfaces of forms with form-release agent, according to manufacturer's written instructions, before placing reinforcement.

### **3.2 EMBEDDED ITEM INSTALLATION**

- A. Place and secure anchorage devices and other embedded items required for adjoining work that is attached to or supported by cast-in-place concrete. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.
  - 1. Install anchor rods, accurately located, to elevations required and complying with tolerances in Section 7.5 of AISC 303.

### **3.3 REMOVING AND REUSING FORMS**

- A. General: Formwork for sides of beams, walls, columns, and similar parts of the Work that does not support weight of concrete may be removed after cumulatively curing at not less than 50 deg F for 24 hours after placing concrete. Concrete has to be hard enough to not be damaged by form-removal operations, and curing and protection operations need to be maintained.
- B. Clean and repair surfaces of forms to be reused in the Work. Split, frayed, delaminated, or otherwise damaged form-facing material are not acceptable for exposed surfaces. Apply new form-release agent.
- C. When forms are reused, clean surfaces, remove fins and laitance, and tighten to close joints. Align and secure joints to avoid offsets. Do not use patched forms for exposed concrete surfaces unless approved by Architect.

### **3.4 VAPOR-RETARDER INSTALLATION**

- A. Sheet Vapor Retarders: Place, protect, and repair sheet vapor retarder according to ASTM E 1643 and manufacturer's written instructions.
  - 1. Lap joints 6 inches and seal with manufacturer's recommended tape.

### **3.5 STEEL REINFORCEMENT INSTALLATION**

- A. General: Comply with CRSI's "Manual of Standard Practice" for fabricating, placing, and supporting reinforcement.
  - 1. Do not cut or puncture vapor retarder. Repair damage and reseal vapor retarder before placing concrete.
- B. Clean reinforcement of loose rust and mill scale, earth, ice, and other foreign materials that reduce bond to concrete.
- C. Accurately position, support, and secure reinforcement against displacement. Locate and support reinforcement with bar supports to maintain minimum concrete cover. Do not tack weld crossing reinforcing bars.
  - 1. Weld reinforcing bars according to AWS D1.4/D 1.4M, where indicated.
- D. Set wire ties with ends directed into concrete, not toward exposed concrete surfaces.

- E. Install welded-wire reinforcement in longest practicable lengths on bar supports spaced to minimize sagging. Lap edges and ends of adjoining sheets at least one mesh spacing. Offset laps of adjoining sheet widths to prevent continuous laps in either direction. Lace overlaps with wire.

### **3.6 JOINTS**

- A. General: Construct joints true to line with faces perpendicular to surface plane of concrete.
- B. Construction Joints: Install so strength and appearance of concrete are not impaired, at locations indicated or as approved by Architect.
  - 1. Place joints perpendicular to main reinforcement. Continue reinforcement across construction joints unless otherwise indicated. Do not continue reinforcement through sides of strip placements of floors and slabs.
  - 2. Form keyed joints as indicated. Embed keys at least 1-1/2 inches into concrete.
  - 3. Locate joints for beams, slabs, joists, and girders in the middle third of spans. Offset joints in girders a minimum distance of twice the beam width from a beam-girder intersection.
  - 4. Locate horizontal joints in walls and columns at underside of floors, slabs, beams, and girders and at the top of footings or floor slabs.
  - 5. Space vertical joints in walls as indicated. Locate joints beside piers integral with walls, near corners, and in concealed locations where possible.
  - 6. Use a bonding agent at locations where fresh concrete is placed against hardened or partially hardened concrete surfaces.
  - 7. Use epoxy-bonding adhesive at locations where fresh concrete is placed against hardened or partially hardened concrete surfaces.
- C. Contraction/Control Joints in Slabs-on-Grade: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of concrete thickness as follows:
  - 1. Grooved Joints: Form contraction joints after initial floating by grooving and finishing each edge of joint to a radius of 1/8 inch. Repeat grooving of contraction joints after applying surface finishes. Eliminate groover tool marks on concrete surfaces.
  - 2. Sawed Joints: Form contraction joints with power saws equipped with shatterproof abrasive or diamond-rimmed blades. Cut 1/8-inch- wide joints into concrete when cutting action does not tear, abrade, or otherwise damage surface and before concrete develops random contraction cracks.
- D. Isolation Joints in Slabs-on-Grade: After removing formwork, install joint-filler strips at slab junctions with vertical surfaces, such as column pedestals, foundation walls, grade beams, and other locations, as indicated.
  - 1. Extend joint-filler strips full width and depth of joint, terminating flush with finished concrete surface unless otherwise indicated.
  - 2. Terminate full-width joint-filler strips not less than 1/2 inch or more than 1 inch below finished concrete surface where joint sealants, specified in Section 07 9005 "Joint Sealants," are indicated.
  - 3. Install joint-filler strips in lengths as long as practicable. Where more than one length is required, lace or clip sections together.
- E. Doweled Joints: Install dowel bars and support assemblies at joints where indicated. Lubricate or asphalt coat one-half of dowel length to prevent concrete bonding to one side of joint.

### **3.7 CONCRETE PLACEMENT**

- A. Before placing concrete, verify that installation of formwork, reinforcement, and embedded items is complete and that required inspections are completed.
- B. Do not add water to concrete during delivery at Project site or during placement unless approved by Architect.
- C. Before test sampling and placing concrete, water may be added at Project site, subject to limitations of ACI 301.
  - 1. Do not add water to concrete after adding high-range water-reducing admixtures to mixture.
- D. Deposit concrete continuously in one layer or in horizontal layers of such thickness that no new concrete is placed on concrete that has hardened enough to cause seams or planes of weakness. If a section cannot be placed continuously, provide construction joints as indicated. Deposit concrete to avoid segregation.
  - 1. Deposit concrete in horizontal layers of depth not to exceed formwork design pressures and in a manner to avoid inclined construction joints.
  - 2. Consolidate placed concrete with mechanical vibrating equipment according to ACI 301.
  - 3. Do not use vibrators to transport concrete inside forms. Insert and withdraw vibrators vertically at uniformly spaced locations to rapidly penetrate placed layer and at least 6 inches into preceding layer. Do not insert vibrators into lower layers of concrete that have begun to lose plasticity. At each insertion, limit duration of vibration to time necessary to consolidate concrete and complete embedment of reinforcement and other embedded items without causing mixture constituents to segregate.
- E. Deposit and consolidate concrete for floors and slabs in a continuous operation, within limits of construction joints, until placement of a panel or section is complete.
  - 1. Consolidate concrete during placement operations, so concrete is thoroughly worked around reinforcement and other embedded items and into corners.
  - 2. Maintain reinforcement in position on chairs during concrete placement.
  - 3. Screed slab surfaces with a straightedge and strike off to correct elevations.
  - 4. Slope surfaces uniformly to drains where required.
  - 5. Begin initial floating using bull floats or darbies to form a uniform and open-textured surface plane, before excess bleedwater appears on the surface. Do not further disturb slab surfaces before starting finishing operations.

### **3.8 FINISHING FORMED SURFACES**

- A. Rough-Formed Finish: As-cast concrete texture imparted by form-facing material with tie holes and defects repaired and patched. Remove fins and other projections that exceed specified limits on formed-surface irregularities.
  - 1. Apply to concrete surfaces not exposed to public view.
- B. Smooth-Formed Finish: As-cast concrete texture imparted by form-facing material, arranged in an orderly and symmetrical manner with a minimum of seams. Repair and patch tie holes and defects. Remove fins and other projections that exceed specified limits on formed-surface irregularities.
  - 1. Apply to concrete surfaces exposed to public view, to receive a rubbed finish.
- C. Rubbed Finish: Apply the following to smooth-formed-finished as-cast concrete where indicated:

1. Smooth-Rubbed Finish: Not later than one day after form removal, moisten concrete surfaces and rub with carborundum brick or another abrasive until producing a uniform color and texture. Do not apply cement grout other than that created by the rubbing process.
  2. Grout-Cleaned Finish: Wet concrete surfaces and apply grout of a consistency of thick paint to coat surfaces and fill small holes. Mix 1 part Portland cement to 1-1/2 parts fine sand with a 1:1 mixture of bonding admixture and water. Add white Portland cement in amounts determined by trial patches, so color of dry grout matches adjacent surfaces. Scrub grout into voids and remove excess grout. When grout whitens, rub surface with clean burlap and keep surface damp by fog spray for at least 36 hours.
  3. Cork-Floats Finish: Wet concrete surfaces and apply a stiff grout. Mix 1 part Portland cement and 1 part fine sand with a 1:1 mixture of bonding agent and water. Add white Portland cement in amounts determined by trial patches, so color of dry grout matches adjacent surfaces. Compress grout into voids by grinding surface. In a swirling motion, finish surface with a cork float.
- D. Related Unformed Surfaces: At tops of walls, horizontal offsets, and similar unformed surfaces adjacent to formed surfaces, strike off smooth and finish with a texture matching adjacent formed surfaces. Continue final surface treatment of formed surfaces uniformly across adjacent unformed surfaces unless otherwise indicated.

### **3.9 FINISHING FLOORS AND SLABS**

- A. General: Comply with ACI 302.1R recommendations for screeding, restraighening, and finishing operations for concrete surfaces. Do not wet concrete surfaces.
- B. Scratch Finish: While still plastic, texture concrete surface that has been screeded and bull-floated or darbied. Use stiff brushes, brooms, or rakes to produce a profile amplitude of 1/4 inch in one direction.
1. Apply scratch finish to surfaces indicated and to receive concrete floor toppings.
- C. Float Finish: Consolidate surface with power-driven floats or by hand floating if area is small or inaccessible to power-driven floats. Restraighten, cut down high spots, and fill low spots. Repeat float passes and restraighening until surface is left with a uniform, smooth, granular texture.
1. Apply float finish to surfaces to receive trowel finish.
- D. Trowel Finish: After applying float finish, apply first troweling and consolidate concrete by hand or power-driven trowel. Continue troweling passes and restraighten until surface is free of trowel marks and uniform in texture and appearance. Grind smooth any surface defects that would telegraph through applied coatings or floor coverings.
1. Apply a trowel finish to surfaces exposed to view or to be covered with resilient flooring, carpet, ceramic or quarry tile set over a cleavage membrane, paint, or another thin-film-finish coating system.
  2. Finish and measure surface, so gap at any point between concrete surface and an unlevelled, freestanding, 10-ft.- long straightedge resting on two high spots and placed anywhere on the surface does not exceed 1/8 inch.
- E. Trowel and Fine-Broom Finish: Apply a first trowel finish to surfaces where ceramic or quarry tile is to be installed by either thickset or thinset method. While concrete is still plastic, slightly scarify surface with a fine broom.
1. Comply with flatness and levelness tolerances for trowel-finished floor surfaces.

- F. Broom Finish: Apply a broom finish to exterior concrete platforms, steps, ramps, and elsewhere as indicated.
  - 1. Immediately after float finishing, slightly roughen trafficked surface by brooming with fiber-bristle broom perpendicular to main traffic route. Coordinate required final finish with Architect before application.

### **3.10 MISCELLANEOUS CONCRETE ITEM INSTALLATION**

- A. Filling In: Fill in holes and openings left in concrete structures after work of other trades is in place unless otherwise indicated. Mix, place, and cure concrete, as specified, to blend with in-place construction. Provide other miscellaneous concrete filling indicated or required to complete the Work.
- B. Curbs: Provide monolithic finish to interior curbs by stripping forms while concrete is still green and by steel-troweling surfaces to a hard, dense finish with corners, intersections, and terminations slightly rounded.

### **3.11 CONCRETE PROTECTING AND CURING**

- A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold-weather protection and ACI 301 for hot-weather protection during curing.
- B. Evaporation Retarder: Apply evaporation retarder to unformed concrete surfaces if hot, dry, or windy conditions cause moisture loss approaching 0.2 lb/sq. ft. x h before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete, but before float finishing.
- C. Formed Surfaces: Cure formed concrete surfaces, including underside of beams, supported slabs, and other similar surfaces. If forms remain during curing period, moist cure after loosening forms. If removing forms before end of curing period, continue curing for remainder of curing period.
- D. Unformed Surfaces: Begin curing immediately after finishing concrete. Cure unformed surfaces, including floors and slabs, concrete floor toppings, and other surfaces.
- E. Cure concrete according to ACI 308.1, by one or a combination of the following methods:
  - 1. Moisture Curing: Keep surfaces continuously moist for not less than seven days with the following materials:
    - a. Water.
    - b. Continuous water-fog spray.
    - c. Absorptive cover, water saturated, and kept continuously wet. Cover concrete surfaces and edges with 12-inch lap over adjacent absorptive covers.
  - 2. Moisture-Retaining-Cover Curing: Cover concrete surfaces with moisture-retaining cover for curing concrete, placed in widest practicable width, with sides and ends lapped at least 12 inches, and sealed by waterproof tape or adhesive. Cure for not less than seven days. Immediately repair any holes or tears during curing period, using cover material and waterproof tape.
    - a. Moisture cure or use moisture-retaining covers to cure concrete surfaces to receive floor coverings.



- b. Moisture cure or use moisture-retaining covers to cure concrete surfaces to receive penetrating liquid floor treatments.
  - c. Cure concrete surfaces to receive floor coverings with either a moisture-retaining cover or a curing compound that the manufacturer certifies does not interfere with bonding of floor covering used on Project.
3. Curing Compound: Apply uniformly in continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Maintain continuity of coating and repair damage during curing period.
- a. Removal: After curing period has elapsed, remove curing compound without damaging concrete surfaces by method recommended by curing compound manufacturer.

### **3.12 JOINT FILLING**

- A. Prepare, clean, and install joint filler according to manufacturer's written instructions.
  - 1. Defer joint filling until concrete has aged at least one month. Do not fill joints until construction traffic has permanently ceased.
- B. Remove dirt, debris, saw cuttings, curing compounds, and sealers from joints; leave contact faces of joints clean and dry.
- C. Install semirigid joint filler full depth in saw-cut joints and at least 2 inches deep in formed joints. Overfill joint and trim joint filler flush with top of joint after hardening.

### **3.13 CONCRETE SURFACE REPAIRS**

- A. Defective Concrete: Repair and patch defective areas when approved by Architect. Remove and replace concrete that cannot be repaired and patched to Architect's approval.
- B. Patching Mortar: Mix dry-pack patching mortar, consisting of 1 part Portland cement to 2-1/2 parts fine aggregate passing a No. 16 sieve, using only enough water for handling and placing.
- C. Repairing Formed Surfaces: Surface defects include color and texture irregularities, cracks, spalls, air bubbles, honeycombs, rock pockets, fins and other projections on the surface, and stains and other discolorations that cannot be removed by cleaning.
  - 1. Immediately after form removal, cut out honeycombs, rock pockets, and voids more than 1/2 inch in any dimension to solid concrete. Limit cut depth to 3/4 inch. Make edges of cuts perpendicular to concrete surface. Clean, dampen with water, and brush-coat holes and voids with bonding agent. Fill and compact with patching mortar before bonding agent has dried. Fill form-tie voids with patching mortar or cone plugs secured in place with bonding agent.
  - 2. Repair defects on surfaces exposed to view by blending white Portland cement and standard Portland cement so that, when dry, patching mortar matches surrounding color. Patch a test area at inconspicuous locations to verify mixture and color match before proceeding with patching. Compact mortar in place and strike off slightly higher than surrounding surface.
  - 3. Repair defects on concealed formed surfaces that affect concrete's durability and structural performance as determined by Architect.
- D. Repairing Unformed Surfaces: Test unformed surfaces, such as floors and slabs, for finish and verify surface tolerances specified for each surface. Correct low and high areas. Test surfaces sloped to drain for trueness of slope and smoothness; use a sloped template.

1. Repair finished surfaces containing defects. Surface defects include spalls, popouts, honeycombs, rock pockets, crazing and cracks in excess of 0.01 inch wide or that penetrate to reinforcement or completely through unreinforced sections regardless of width, and other objectionable conditions.
  2. After concrete has cured at least 14 days, correct high areas by grinding.
  3. Correct localized low areas during or immediately after completing surface finishing operations by cutting out low areas and replacing with patching mortar. Finish repaired areas to blend into adjacent concrete.
  4. Correct other low areas scheduled to receive floor coverings with a repair underlayment. Prepare, mix, and apply repair underlayment and primer according to manufacturer's written instructions to produce a smooth, uniform, plane, and level surface. Feather edges to match adjacent floor elevations.
  5. Correct other low areas scheduled to remain exposed with a repair topping. Cut out low areas to ensure a minimum repair topping depth of 1/4 inch to match adjacent floor elevations. Prepare, mix, and apply repair topping and primer according to manufacturer's written instructions to produce a smooth, uniform, plane, and level surface.
  6. Repair defective areas, except random cracks and single holes 1 inch or less in diameter, by cutting out and replacing with fresh concrete. Remove defective areas with clean, square cuts and expose steel reinforcement with at least a 3/4-inch clearance all around. Dampen concrete surfaces in contact with patching concrete and apply bonding agent. Mix patching concrete of same materials and mixture as original concrete, except without coarse aggregate. Place, compact, and finish to blend with adjacent finished concrete. Cure in same manner as adjacent concrete.
  7. Repair random cracks and single holes 1 inch or less in diameter with patching mortar. Groove top of cracks and cut out holes to sound concrete and clean off dust, dirt, and loose particles. Dampen cleaned concrete surfaces and apply bonding agent. Place patching mortar before bonding agent has dried. Compact patching mortar and finish to match adjacent concrete. Keep patched area continuously moist for at least 72 hours.
- E. Perform structural repairs of concrete, subject to Architect's approval, using epoxy adhesive and patching mortar.
- F. Repair materials and installation not specified above may be used, subject to Architect's approval.

### **3.14 FIELD QUALITY CONTROL**

- A. Special Inspections: Owner will engage a special inspector and qualified testing and inspecting agency to perform field tests and inspections and prepare test reports.
- B. Inspections:
1. Steel reinforcement placement.
  2. Steel reinforcement welding.
  3. Verification of use of required design mixture.
  4. Concrete placement, including conveying and depositing.
  5. Curing procedures and maintenance of curing temperature.
- C. Concrete Tests: Testing of composite samples of fresh concrete obtained according to ASTM C 172/C 172M shall be performed according to the following requirements:
1. Testing Frequency: Obtain one composite sample for each day's pour of each concrete mixture exceeding 5 cu. yd., but less than 25 cu. yd., plus one set for each additional 50 cu. yd. or fraction thereof.

2. Slump: ASTM C 143/C 143M; one test at point of placement for each composite sample, but not less than one test for each day's pour of each concrete mixture. Perform additional tests when concrete consistency appears to change.
3. Air Content: ASTM C 231/C 231M, pressure method, for normal-weight concrete; one test for each composite sample, but not less than one test for each day's pour of each concrete mixture.
4. Concrete Temperature: ASTM C 1064/C 1064M; one test hourly when air temperature is 40 deg F and below or 80 deg F and above, and one test for each composite sample.
5. Unit Weight: ASTM C 567/C 567M, fresh unit weight of structural lightweight concrete; one test for each composite sample, but not less than one test for each day's pour of each concrete mixture.
6. Compression Test Specimens: ASTM C 31/C 31M.
  - a. Cast and laboratory cure two sets of two standard cylinder specimens for each composite sample.
7. Compressive-Strength Tests: ASTM C 39/C 39M; test one set of two laboratory-cured specimens at 7 days and one set of two specimens at 28 days.
  - a. Test one set of two field-cured specimens at 7 days and one set of two specimens at 28 days.
  - b. A compressive-strength test shall be the average compressive strength from a set of two specimens obtained from same composite sample and tested at age indicated.
8. When strength of field-cured cylinders is less than 85 percent of companion laboratory-cured cylinders, Contractor shall evaluate operations and provide corrective procedures for protecting and curing in-place concrete.
9. Strength of each concrete mixture will be satisfactory if every average of any three consecutive compressive-strength tests equals or exceeds specified compressive strength and no compressive-strength test value falls below specified compressive strength by more than 500 psi.
10. Test results shall be reported in writing to Architect, concrete manufacturer, and Contractor within 48 hours of testing. Reports of compressive-strength tests shall contain Project identification name and number, date of concrete placement, name of concrete testing and inspecting agency, location of concrete batch in Work, design compressive strength at 28 days, concrete mixture proportions and materials, compressive breaking strength, and type of break for both 7- and 28-day tests.
11. Nondestructive Testing: Impact hammer, sonoscope, or other nondestructive device may be permitted by Architect but will not be used as sole basis for approval or rejection of concrete.
12. Additional Tests: Testing and inspecting agency shall make additional tests of concrete when test results indicate that slump, air entrainment, compressive strengths, or other requirements have not been met, as directed by Architect. Testing and inspecting agency may conduct tests to determine adequacy of concrete by cored cylinders complying with ASTM C 42/C 42M or by other methods as directed by Architect.
13. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.
14. Correct deficiencies in the Work that test reports and inspections indicate do not comply with the Contract Documents.

D. Measure floor and slab flatness and levelness according to ASTM E 1155 within 24 hours of finishing.

**END OF SECTION 03 3000**

## SECTION 05 1200

### STRUCTURAL STEEL FRAMING

#### PART 1 - GENERAL

##### 1.1 RELATED DOCUMENTS

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

##### 1.2 SUMMARY

- A. Section Includes:
  - 1. Structural steel.
  - 2. Grout.

##### 1.3 DEFINITIONS

- A. Structural Steel: Elements of the structural frame indicated on Drawings and as described in AISC 303, "Code of Standard Practice for Steel Buildings and Bridges."
- B. Seismic-Load-Resisting System: Elements of structural-steel frame designated as "SLRS" or along grid lines designated as "SLRS" on Drawings, including columns, beams, and braces and their connections.
- C. Heavy Sections: Rolled and built-up sections as follows:
  - 1. Shapes included in ASTM A 6/A 6M with flanges thicker than 1-1/2 inches.
  - 2. Welded built-up members with plates thicker than 2 inches.
  - 3. Column base plates thicker than 2 inches.
- D. Protected Zone: Structural members or portions of structural members indicated as "Protected Zone" on Drawings. Connections of structural and nonstructural elements to protected zones are limited.
- E. Demand Critical Welds: Those welds, the failure of which would result in significant degradation of the strength and stiffness of the Seismic-Load-Resisting System and which are indicated as "Demand Critical" or "Seismic Critical" on Drawings.

##### 1.4 COORDINATION

- A. Coordinate selection of shop primers with topcoats to be applied over them. Comply with paint and coating manufacturers' written recommendations to ensure that shop primers and topcoats are compatible with one another.
- B. Coordinate installation of anchorage items to be embedded in or attached to other construction without delaying the Work. Provide setting diagrams, sheet metal templates, instructions, and directions for installation.

## **1.5 PREINSTALLATION MEETINGS**

- A. Preinstallation Conference: Conduct conference at Project site.

## **1.6 ACTION SUBMITTALS**

- A. Product Data: For each type of product.
- B. Shop Drawings: Show fabrication of structural-steel components.
  - 1. Include details of cuts, connections, splices, camber, holes, and other pertinent data.
  - 2. Include embedment Drawings.
  - 3. Indicate welds by standard AWS symbols, distinguishing between shop and field welds, and show size, length, and type of each weld. Show backing bars that are to be removed and supplemental fillet welds where backing bars are to remain.
  - 4. Indicate type, size, and length of bolts, distinguishing between shop and field bolts. Identify pretensioned and slip-critical, high-strength bolted connections.
  - 5. Identify members and connections of the Seismic-Load-Resisting System.
  - 6. Indicate locations and dimensions of protected zones.
  - 7. Identify demand critical welds.
  - 8. Indicate locations and dimensions of structural thermal break materials.
- C. Welding Procedure Specifications (WPSs) and Procedure Qualification Records (PQRs): Provide according to AWS D1.1/D1.1M, "Structural Welding Code - Steel," for each welded joint qualified by testing, including the following:
  - 1. Power source (constant current or constant voltage).
  - 2. Electrode manufacturer and trade name, for demand critical welds.

## **1.7 INFORMATIONAL SUBMITTALS**

- A. Qualification Data: For Installer, fabricator.
- B. Welding certificates.
- C. Paint Compatibility Certificates: From manufacturers of topcoats applied over shop primers, certifying that shop primers are compatible with topcoats.
- D. Mill test reports for structural steel, including chemical and physical properties.
- E. Product Test Reports: For the following:
  - 1. Bolts, nuts, and washers including mechanical properties and chemical analysis.
  - 2. Direct-tension indicators.
  - 3. Tension-control, high-strength, bolt-nut-washer assemblies.
  - 4. Nonshrink grout.
- F. Source quality-control reports.
- G. Buy American Certification: Manufacturer's letters of compliance acceptable to authorities having jurisdiction, indicating that products comply with requirements.
- H. Field quality-control reports.

## 1.8 QUALITY ASSURANCE

- A. Fabricator Qualifications: A qualified fabricator that participates in the AISC Quality Certification Program and is designated an AISC-Certified Plant, Category STD.
  - 1. In lieu of AISC certification the fabricator may retain an independent third party inspection agency with inspectors working under the direction of an AWS Certified Welding Inspector. Inspector shall review material handling procedures at the fabrication shop and perform inspections at minimum of two times per week. All inspections shall be reported to the Architect with reports signed and stamped by the inspector. Inspections shall also include verification that all welders have qualifications appropriate to the process and position in which they are welding, review and approval of welding procedures, verification the welding procedures are posted or otherwise available for welders use, and verify that all fit-up, interpass cleaning, and final weld profile and quality meets AWS D1.1 requirements.
- B. Installer Qualifications: A qualified installer who participates in the AISC Quality Certification Program and is designated an AISC-Certified Erector, Category CSE.
- C. Welding Qualifications: Qualify procedures and personnel according to AWS D1.1/D1.1M, "Structural Welding Code - Steel."
  - 1. Welders and welding operators performing work on bottom-flange, demand-critical welds shall pass the supplemental welder qualification testing, as required by AWS D1.8/D1.8M. FCAW-S and FCAW-G shall be considered separate processes for welding personnel qualification.
- D. Comply with applicable provisions of the following specifications and documents:
  - 1. AISC 303.
  - 2. AISC 341 and AISC 341s1.
  - 3. AISC 360.
  - 4. RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts."

## 1.9 DELIVERY, STORAGE, AND HANDLING

- A. Store materials to permit easy access for inspection and identification. Keep steel members off ground and spaced by using pallets, dunnage, or other supports and spacers. Protect steel members and packaged materials from corrosion and deterioration.
  - 1. Do not store materials on structure in a manner that might cause distortion, damage, or overload to members or supporting structures. Repair or replace damaged materials or structures as directed.
- B. Store fasteners in a protected place in sealed containers with manufacturer's labels intact.
  - 1. Fasteners may be repackaged provided Owner's testing and inspecting agency observes repackaging and seals containers.
  - 2. Clean and relubricate bolts and nuts that become dry or rusty before use.
  - 3. Comply with manufacturers' written recommendations for cleaning and lubricating ASTM F 1852 fasteners and for retesting fasteners after lubrication.

## PART 2 - PRODUCTS

- A. W-Shapes: ASTM A 992/A 992M .
- B. Channels, Angles : ASTM A 36/A 36M.

- C. Plate and Bar: ASTM A 36/A 36M.
- D. Moment Connection End Plate: ASTM A572 Gr. 50.
- E. Cold-Formed Hollow Structural Sections: ASTM A 500/A 500M, Grade B, structural tubing.
- F. Welding Electrodes: Comply with AWS requirements.

## **2.2 BOLTS, CONNECTORS, AND ANCHORS**

- A. High-Strength Bolts, Nuts, and Washers: ASTM A 325, Type 1, heavy-hex steel structural bolts; ASTM A 563, Grade C, heavy-hex carbon-steel nuts; and ASTM F 436, Type 1, hardened carbon-steel washers; all with plain finish.
  - 1. Direct-Tension Indicators: ASTM F 959, Type 325, compressible-washer type with plain finish.
- B. Tension-Control, High-Strength Bolt-Nut-Washer Assemblies: ASTM F 1852, Type 1, heavy-hex head assemblies consisting of steel structural bolts with splined ends, heavy-hex carbon-steel nuts, and hardened carbon-steel washers.
  - 1. Finish: Plain or Mechanically deposited zinc coating.
- C. Unheaded Anchor Rods: ASTM F 1554, Grade 36.
  - 1. Configuration: Straight.
  - 2. Nuts: ASTM A 563 heavy-hex carbon steel.
  - 3. Plate Washers: ASTM A 36/A 36M carbon steel.
  - 4. Washers: ASTM F 436, Type 1, hardened carbon steel.
  - 5. Finish: Plain.

## **2.3 PRIMER**

- A. Primer: Fabricator's standard lead- and chromate-free, nonasphaltic, rust-inhibiting primer complying with MPI#79 and compatible with topcoat.
- B. Galvanizing Repair Paint: ASTM A 780/A 780M.

## **2.4 GROUT**

- A. Nonmetallic, Shrinkage-Resistant Grout: ASTM C 1107/C 1107M, factory-packaged, nonmetallic aggregate grout, noncorrosive and nonstaining, mixed with water to consistency suitable for application and a 30-minute working time.

## **2.5 FABRICATION**

- A. Structural Steel: Fabricate and assemble in shop to greatest extent possible. Fabricate according to AISC 303, "Code of Standard Practice for Steel Buildings and Bridges," and to AISC 360.
  - 1. Camber structural-steel members where indicated.
  - 2. Fabricate beams with rolling camber up.

3. Identify high-strength structural steel according to ASTM A 6/A 6M and maintain markings until structural steel has been erected.
  4. Mark and match-mark materials for field assembly.
  5. Complete structural-steel assemblies, including welding of units, before starting shop-priming operations.
- B. Thermal Cutting: Perform thermal cutting by machine to greatest extent possible.
1. Plane thermally cut edges to be welded to comply with requirements in AWS D1.1/D1.1M.
- C. Bolt Holes: Cut, drill, mechanically thermal cut, or punch standard bolt holes perpendicular to metal surfaces.
- D. Finishing: Accurately finish ends of columns and other members transmitting bearing loads.
- E. Cleaning: Clean and prepare steel surfaces that are to remain unpainted according to SSPC-SP 3, "Power Tool Cleaning."
- F. Steel Wall-Opening Framing: Select true and straight members for fabricating steel wall-opening framing to be attached to structural-steel frame. Straighten as required to provide uniform, square, and true members in completed wall framing. Build up welded framing, weld exposed joints continuously, and grind smooth.
- G. Holes: Provide holes required for securing other work to structural steel and for other work to pass through steel members.
1. Cut, drill, or punch holes perpendicular to steel surfaces. Do not thermally cut bolt holes or enlarge holes by burning.
  2. Baseplate Holes: Cut, drill, mechanically thermal cut, or punch holes perpendicular to steel surfaces.
  3. Weld threaded nuts to framing and other specialty items indicated to receive other work.

## **2.6 SHOP CONNECTIONS**

- A. High-Strength Bolts: Shop install high-strength bolts according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts" for type of bolt and type of joint specified.
- B. Weld Connections: Comply with AWS D1.1/D1.1M and AWS D1.8/D1.8M for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting welding work.
1. Assemble and weld built-up sections by methods that maintain true alignment of axes without exceeding tolerances in AISC 303 for mill material.

## **2.7 SHOP PRIMING**

- A. Shop prime steel surfaces except the following:
1. Surfaces embedded in concrete or mortar. Extend priming of partially embedded members to a depth of 2 inches.
  2. Surfaces to be field welded.
  3. Surfaces of high-strength bolted, slip-critical connections.
  4. Galvanized surfaces.



- B. Surface Preparation: Clean surfaces to be painted. Remove loose rust and mill scale and spatter, slag, or flux deposits. Prepare surfaces according to the following specifications and standards:
  - 1. SSPC-SP 3, "Power Tool Cleaning."
- C. Priming: Immediately after surface preparation, apply primer according to manufacturer's written instructions and at rate recommended by SSPC to provide a minimum dry film thickness of 1.5 mils. Use priming methods that result in full coverage of joints, corners, edges, and exposed surfaces.
  - 1. Stripe paint corners, crevices, bolts, welds, and sharp edges.
  - 2. Apply two coats of shop paint to surfaces that are inaccessible after assembly or erection. Change color of second coat to distinguish it from first.

## **2.8 GALVANIZING**

- A. Hot-Dip Galvanized Finish: Apply zinc coating by the hot-dip process to structural steel according to ASTM A 123/A 123M.
  - 1. Fill vent and drain holes that are exposed in the finished Work unless they function as weep holes, by plugging with zinc solder and filing off smooth.

## **2.9 SOURCE QUALITY CONTROL**

- A. Testing Agency: Owner will engage a qualified testing agency to perform shop tests and inspections.
  - 1. Provide testing agency with access to places where structural-steel work is being fabricated or produced to perform tests and inspections.
- B. Bolted Connections: Inspect and test shop-bolted connections according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts."
- C. Welded Connections: Visually inspect shop-welded connections according to AWS D1.1/D1.1M and the following inspection procedures, at testing agency's option:
  - 1. Liquid Penetrant Inspection: ASTM E 165.
  - 2. Magnetic Particle Inspection: ASTM E 709; performed on root pass and on finished weld. Cracks or zones of incomplete fusion or penetration are not accepted.
  - 3. Ultrasonic Inspection: ASTM E 164.
  - 4. Radiographic Inspection: ASTM E 94.
- D. In addition to visual inspection, test and inspect shop-welded shear connectors according to requirements in AWS D1.1/D1.1M for stud welding and as follows:
  - 1. Perform bend tests if visual inspections reveal either a less-than-continuous 360-degree flash or welding repairs to any shear connector.
  - 2. Conduct tests according to requirements in AWS D1.1/D1.1M on additional shear connectors if weld fracture occurs on shear connectors already tested.
- E. Prepare test and inspection reports.

## **PART 3 - EXECUTION**

### **3.1 EXAMINATION**

- A. Verify, with certified steel erector present, elevations of concrete- and masonry-bearing surfaces and locations of anchor rods, bearing plates, and other embedments for compliance with requirements.
  - 1. Prepare a certified survey of existing conditions. Include bearing surfaces, anchor rods, bearing plates, and other embedments showing dimensions, locations, angles, and elevations.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

### **3.2 PREPARATION**

- A. Provide temporary shores, guys, braces, and other supports during erection to keep structural steel secure, plumb, and in alignment against temporary construction loads and loads equal in intensity to design loads. Remove temporary supports when permanent structural steel, connections, and bracing are in place unless otherwise indicated.
  - 1. Do not remove temporary shoring supporting composite deck construction until cast-in-place concrete has attained its design compressive strength.

### **3.3 ERECTION**

- A. Set structural steel accurately in locations and to elevations indicated and according to AISC 303 and AISC 360.
- B. Baseplates and Leveling Plates: Clean concrete- and masonry-bearing surfaces of bond-reducing materials, and roughen surfaces prior to setting plates. Clean bottom surface of plates.
  - 1. Set plates for structural members on wedges, shims, or setting nuts as required.
  - 2. Weld plate washers to top of baseplate.
  - 3. Snug-tighten anchor rods after supported members have been positioned and plumbed. Do not remove wedges or shims but, if protruding, cut off flush with edge of plate before packing with grout.
  - 4. Promptly pack grout solidly between bearing surfaces and plates so no voids remain. Neatly finish exposed surfaces; protect grout and allow to cure. Comply with manufacturer's written installation instructions for shrinkage-resistant grouts.
- C. Maintain erection tolerances of structural steel within AISC 303, "Code of Standard Practice for Steel Buildings and Bridges."
- D. Align and adjust various members that form part of complete frame or structure before permanently fastening. Before assembly, clean bearing surfaces and other surfaces that are in permanent contact with members. Perform necessary adjustments to compensate for discrepancies in elevations and alignment.
  - 1. Level and plumb individual members of structure.
  - 2. Make allowances for difference between temperature at time of erection and mean temperature when structure is completed and in service.
- E. Splice members only where indicated.

- F. Do not use thermal cutting during erection unless approved by Architect. Finish thermally cut sections within smoothness limits in AWS D1.1/D1.1M.
- G. Do not enlarge unfair holes in members by burning or using drift pins. Ream holes that must be enlarged to admit bolts.

### **3.4 FIELD CONNECTIONS**

- A. High-Strength Bolts: Install high-strength bolts according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts" for type of bolt and type of joint specified.
- B. Weld Connections: Comply with AWS D1.1/D1.1M and AWS D1.8/D1.8M for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting welding work.
  - 1. Comply with AISC 303 and AISC 360 for bearing, alignment, adequacy of temporary connections, and removal of paint on surfaces adjacent to field welds.
  - 2. Remove backing bars or runoff tabs where indicated, back gouge, and grind steel smooth.
  - 3. Assemble and weld built-up sections by methods that maintain true alignment of axes without exceeding tolerances in AISC 303, "Code of Standard Practice for Steel Buildings and Bridges," for mill material.

### **3.5 FIELD QUALITY CONTROL**

- A. Special Inspections: Owner will engage a qualified special inspector to perform the following special inspections:
  - 1. Verify structural-steel materials and inspect steel frame joint details.
  - 2. Verify weld materials and inspect welds.
  - 3. Verify connection materials and inspect high-strength bolted connections.
- B. Testing Agency: Owner will engage a qualified testing agency to perform tests and inspections.
- C. Bolted Connections: Inspect and test bolted connections according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts."
- D. Welded Connections: Visually inspect field welds according to AWS D1.1/D1.1M.
  - 1. In addition to visual inspection, test and inspect field welds according to AWS D1.1/D1.1M and the following inspection procedures, at testing agency's option:
    - a. Liquid Penetrant Inspection: ASTM E 165.
    - b. Magnetic Particle Inspection: ASTM E 709; performed on root pass and on finished weld. Cracks or zones of incomplete fusion or penetration are not accepted.
    - c. Ultrasonic Inspection: ASTM E 164.
    - d. Radiographic Inspection: ASTM E 94.
- E. In addition to visual inspection, test and inspect field-welded shear connectors according to requirements in AWS D1.1/D1.1M for stud welding and as follows:
  - 1. Perform bend tests if visual inspections reveal either a less-than-continuous 360-degree flash or welding repairs to any shear connector.
  - 2. Conduct tests according to requirements in AWS D1.1/D1.1M on additional shear connectors if weld fracture occurs on shear connectors already tested.

### **3.6 REPAIRS AND PROTECTION**

- A. Galvanized Surfaces: Clean areas where galvanizing is damaged or missing and repair galvanizing to comply with ASTM A 780/A 780M.
- B. Touchup Painting: Immediately after erection, clean exposed areas where primer is damaged or missing and paint with the same material as used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces.
  - 1. Clean and prepare surfaces by SSPC-SP 2 hand-tool cleaning or SSPC-SP 3 power-tool cleaning.

**END OF SECTION 05 1200**

**SECTION 06 1000  
ROUGH CARPENTRY**

**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Sheathing.
- B. Roofing nailers.
- C. Roofing cant strips.
- D. Preservative treated wood materials.
- E. Communications and electrical mounting boards.
- F. Concealed wood blocking, nailers, and supports.
- G. Miscellaneous wood nailers, furring, and grounds.

**1.2 REFERENCE STANDARDS**

- A. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware 2016a.
- B. ASTM C1177/C1177M - Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing 2017.
- C. ASTM D2898 - Standard Test Methods for Accelerated Weathering of Fire-Retardant-Treated Wood for Fire Testing 2010 (Reapproved 2017).
- D. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials 2020.
- E. AWPA C20 - Structural Lumber -- Fire Retardant Treatment by Pressure Processes; American Wood-Protection Association; 2003.
- F. AWPA C27 - Plywood -- Fire-Retardant Treatment by Pressure Processes; American Wood-Protection Association; 2002.
- G. AWPA U1 - Use Category System: User Specification for Treated Wood 2018.
- H. PS 1 - Structural Plywood 2009.
- I. PS 20 - American Softwood Lumber Standard 2020.

**1.3 DELIVERY, STORAGE, AND HANDLING**

- A. General: Cover wood products to protect against moisture. Support stacked products to prevent deformation and to allow air circulation.
- B. Fire Retardant Treated Wood: Prevent exposure to precipitation during shipping, storage, or installation.

## **PART 2 PRODUCTS**

### **2.1 GENERAL REQUIREMENTS**

- A. Dimension Lumber: Comply with PS 20 and requirements of specified grading agencies.
  - 1. If no species is specified, provide any species graded by the agency specified; if no grading agency is specified, provide lumber graded by any grading agency meeting the specified requirements.
  - 2. Grading Agency: Any grading agency whose rules are approved by the Board of Review, American Lumber Standard Committee ([www.alsc.org](http://www.alsc.org)) and who provides grading service for the species and grade specified; provide lumber stamped with grade mark unless otherwise indicated.
- B. Lumber fabricated from old growth timber is not permitted.

### **2.2 DIMENSION LUMBER FOR CONCEALED APPLICATIONS**

- A. Sizes: Nominal sizes as indicated on drawings, S4S.
- B. Moisture Content: S-dry or MC19.
- C. Miscellaneous Framing, Blocking, Nailers, Grounds, and Furring:
  - 1. Lumber: S4S, No. 2 or Standard Grade.
  - 2. Boards: Standard or No. 3.

### **2.3 CONSTRUCTION PANELS**

- A. Sheathing: Glass Mat Gypsum Board, ASTM C 1177/C 1177M, Type X fire resistant, square long edges, 5/8 inch (16 mm) thick.
- B. Communications and Electrical Room Mounting Boards: PS 1 A-D plywood, or medium density fiberboard; 3/4 inch ( 19 mm ) thick; flame spread index of 25 or less, smoke developed index of 450 or less, when tested in accordance with ASTM E84.

### **2.4 ACCESSORIES**

- A. Fasteners and Anchors:
  - 1. Metal and Finish: Hot-dipped galvanized steel complying with ASTM A153/A153M for high humidity and preservative-treated wood locations, unfinished steel elsewhere.
  - 2. Drywall Screws: Bugle head, hardened steel, power driven type, length three times thickness of sheathing.
  - 3. Anchors: Expansion shield and lag bolt type for anchorage to solid masonry or concrete.

### **2.5 FACTORY WOOD TREATMENT**

- A. Treated Lumber and Plywood: Comply with requirements of AWPA U1 - Use Category System for wood treatments determined by use categories, expected service conditions, and specific applications.

1. Fire-Retardant Treated Wood: Mark each piece of wood with producer's stamp indicating compliance with specified requirements.
2. Preservative-Treated Wood: Provide lumber and plywood marked or stamped by an ALSC-accredited testing agency, certifying level and type of treatment in accordance with AWPA standards.

**B. Fire Retardant Treatment:**

1. Exterior Type: AWPA U1, Category UCFB, Commodity Specification H, chemically treated and pressure impregnated; capable of providing a maximum flame spread index of 25 when tested in accordance with ASTM E84, with no evidence of significant combustion when test is extended for an additional 20 minutes both before and after accelerated weathering test performed in accordance with ASTM D2898.
  - a. Kiln dry wood after treatment to a maximum moisture content of 19 percent for lumber and 15 percent for plywood.
  - b. Treat all exterior rough carpentry items.
  - c. Do not use treated wood in direct contact with the ground.
2. Interior Type A: AWPA U1, Use Category UCFA, Commodity Specification H, low temperature (low hygroscopic) type, chemically treated and pressure impregnated; capable of providing a maximum flame spread index of 25 when tested in accordance with ASTM E84, with no evidence of significant combustion when test is extended for an additional 20 minutes.
  - a. Kiln dry wood after treatment to a maximum moisture content of 19 percent for lumber and 15 percent for plywood.

**C. Preservative Treatment:**

1. Preservative Pressure Treatment of Lumber Above Grade: AWPA U1, Use Category UC3B, Commodity Specification A using waterborne preservative.
  - a. Kiln dry lumber after treatment to maximum moisture content of 19 percent.
  - b. Treat lumber in contact with roofing, flashing, or waterproofing.
  - c. Treat lumber in contact with masonry or concrete.
  - d. Treat lumber in other locations as indicated.
2. Preservative Pressure Treatment of Plywood Above Grade: AWPA U1, Use Category UC2 and UC3B, Commodity Specification F using waterborne preservative.
  - a. Kiln dry plywood after treatment to maximum moisture content of 19 percent.
  - b. Treat plywood in contact with roofing, flashing, or waterproofing.
  - c. Treat plywood in contact with masonry or concrete.
  - d. Treat plywood in other locations as indicated.

## **PART 3 EXECUTION**

### **3.1 INSTALLATION - GENERAL**

- A. Select material sizes to minimize waste.
- B. Reuse scrap to the greatest extent possible; clearly separate scrap for use on site as accessory components, including: shims, bracing, and blocking.

### **3.2 BLOCKING, NAILERS, AND SUPPORTS**

- A. Provide framing and blocking members as indicated or as required to support finishes, fixtures, specialty items, and trim.

### **3.3 ROOF-RELATED CARPENTRY**

- A. Coordinate installation of roofing carpentry with deck construction, framing of roof openings, intersecting wall assembly, and roofing assembly installation.

### **3.4 INSTALLATION OF CONSTRUCTION PANELS**

- A. Wall Sheathing: Secure with long dimension perpendicular to wall studs, with ends over firm bearing and staggered, using nails, screws, or staples.
- B. Communications and Electrical Mounting Boards: Secure with screws to studs with edges over firm bearing; space fasteners at maximum 24 inches on center on all edges and into studs in field of board.
  - 1. At fire-rated walls, install board over wall board indicated as part of the fire-rated assembly.

### **3.5 CLEANING**

- A. Waste Disposal: Comply with the requirements of Section 01 7419 - Construction Waste Management and Disposal.
  - 1. Comply with applicable regulations.
  - 2. Do not send materials treated with pentachlorophenol, CCA, or ACA to co-generation facilities or “waste-to-energy” facilities.
- B. Do not leave any wood, shavings, sawdust, etc. on the ground or buried in fill.
- C. Prevent sawdust and wood shavings from entering the storm drainage system.

**END OF SECTION 06 1000**



**SECTION 07 2100  
THERMAL INSULATION**

**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Batt insulation and vapor retarder in exterior roof construction.

**1.2 RELATED REQUIREMENTS**

- A. Section 07 5400 - Thermoplastic Membrane Roofing: Insulation specified as part of roofing system.
- B. Section 07 4213 - Fire Rated Metal Wall Panels: Insulation as part of fire-rated through-penetration assemblies.

**1.3 REFERENCE STANDARDS**

- A. ASTM C612 - Standard Specification for Mineral Fiber Block and Board Thermal Insulation 2014 (Reapproved 2019).
- B. ASTM E136 - Standard Test Method for Assessing Combustibility of Materials Using a Vertical Tube Furnace at 750°C 2019a.
- C. NFPA 255 - Standard Method of Test of Surface Burning Characteristics of Building Materials; National Fire Protection Association; 2006.
- D. UL 723 - Standard for Test for Surface Burning Characteristics of Building Materials; Underwriters Laboratories Inc.; Current Edition, Including All Revisions.

**1.4 SUBMITTALS**

- A. Product Data: Provide data on product characteristics, performance criteria, and product limitations.

**1.5 SEQUENCING**

- A. Sequence work to ensure fireproofing and firestop materials are in place before beginning work of this section.

**1.6 COORDINATION**

- A. Coordinate the work with other sections for installation of vapor retarder.

## **PART 2 PRODUCTS**

### **2.1 APPLICATIONS**

### **2.2 BATT INSULATION MATERIALS**

- A. Batt Insulation: ASTM C 665; preformed batt; thickness and R value to match existing damaged or missing insulation conforming to the following:
  - 1. Material: Glass or mineral fiber.
  - 2. Combustibility: Non-combustible, when tested in accordance with ASTM E136.
  - 3. Formaldehyde Content: Zero.

### **2.3 ACCESSORIES**

## **PART 3 EXECUTION**

### **3.1 EXAMINATION**

- A. Verify that substrate, adjacent materials, and insulation materials are dry and that substrates are ready to receive insulation.
- B. Verify substrate surfaces are flat, free of honeycomb, fins, irregularities, or materials or substances that may impede adhesive bond.

### **3.2 BOARD INSTALLATION AT EXTERIOR WALLS**

- A. Install mineral fiber boards vertically on walls with fiberglass Z girts.
  - 1. Install girts and semirigid mineral fiber boards per manufacturer's instructions.
- B. Cut and fit insulation tightly to protrusions or interruptions to the insulation plane.

### **3.3 BOARD INSTALLATION AT CAVITY WALLS**

- A. Install boards to fit snugly between wall ties.
- B. Install boards horizontally on walls.
- C. Cut and fit insulation tightly to protrusions or interruptions to the insulation plane.

### **3.4 BATT INSTALLATION**

- A. Install insulation and vapor retarder in accordance with manufacturer's instructions.
- B. Install in exterior wall and roof spaces without gaps or voids. Do not compress insulation.
- C. Trim insulation neatly to fit spaces. Insulate miscellaneous gaps and voids.

- D. Fit insulation tightly in cavities and tightly to exterior side of mechanical and electrical services within the plane of the insulation.
- E. At metal framing, place vapor retarder on warm side of insulation; lap and seal sheet retarder joints over member face.
- F. Tape seal tears or cuts in vapor retarder.
- G. Extend vapor retarder tightly to full perimeter of adjacent window and door frames and other items interrupting the plane of the membrane. Tape seal in place.

**END OF SECTION 07 2100**

**SECTION 07 4213 –  
INSULATED FIRE-RESISTANT METAL WALL PANELS**

**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Fire-resistant-thermal-insulation-core metal wall and ceiling panels, with related metal trim and accessories.

**1.2 RELATED REQUIREMENTS**

- A. Division 05 Section "Structural Steel Framing" for steel framing supporting metal panels.
- B. Division 07 Section "Sheet Metal Flashing and Trim" for sheet metal copings, flashings, and reglets and roof drainage items in addition to items specified in this Section.
- C. Division 07 Section "Manufactured Roof Specialties" for manufactured copings, reglets, and roof drainage items in addition to items specified in this Section.
- D. Division 07 Section "Joint Sealants" for Joint Sealants for installation of metal wall panels.

**1.3 REFERENCES**

- A. American Society of Civil Engineers (ASCE): [www.asce.org/codes-standards](http://www.asce.org/codes-standards)
- B. ASCE 7 - Minimum Design Loads for Buildings and Other Structures
- C. ASTM International (ASTM): [www.astm.org](http://www.astm.org):
- D. ASTM A653 - Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- E. ASTM A755 - Specification for Steel Sheet, Metallic Coated by the Hot-Dip Process and Prepainted by the Coil-Coating Process for Exterior Exposed Building Products
- F. ASTM A792/A792M - Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process
- G. ASTM C518 - Standard Test Method for Steady State Heat Flux Measurements and Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.
- H. ASTM C612 - Specification for Mineral Fiber Block and Board Thermal Insulation
- I. ASTM C1363 - Standard Test Method for Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus
- J. ASTM D2244 - Test Method for Calculation of Color Differences from Instrumentally Measured Color Coordinates
- K. ASTM D4214 - Test Methods for Evaluating Degree of Chalking of Exterior Paint Films
- L. ASTM E72 - Standard Test Methods of Conducting Strength Tests of Panels for Building Construction

- M. ASTM E84 - Test Methods for Surface Burning Characteristics of Building Materials
- N. ASTM E119 - Test Methods for Fire Tests of Building Construction and Materials
- O. ASTM E136 - Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C
- P. ASTM E283 - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen
- Q. ASTM E331 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference
- R. ASTM E1592 - Standard Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference
- S. FM Global (FM): [www.fmglobal.com](http://www.fmglobal.com):
- T. ANSI/FM 4880 American National Standard for Evaluating Insulated Wall and Roof/Ceiling Assemblies

#### **1.4 QUALITY ASSURANCE**

- A. Manufacturer/Source: Provide metal panel assemblies and accessories from a single manufacturer -approved under an accredited third party quality control program.
- B. Manufacturer Qualifications: Approved manufacturer listed in this Section with minimum five years' experience in manufacture of similar products in successful use in similar applications.
  - 1. Approval of Comparable Products: Submit the following in accordance with project substitution requirements, within time allowed for substitution review:
    - a. Product data, including certified independent test data indicating compliance with requirements.
    - b. Samples of each component.
    - c. Sample submittal from similar project.
    - d. Project references: Minimum of five installations not less than five years old, with Owner and Architect contact information.
    - e. Sample warranty.
    - f. Certificate of approval from an accredited 3rd-party quality control program.
  - 2. Substitutions following award of contract are not allowed except as stipulated in Division 01 General Requirements.
  - 3. Approved manufacturers must meet separate requirements of Submittals Article.
- C. Installer Qualifications: Experienced Installer [certified by metal panel manufacturer] with minimum of five years' experience with successfully completed projects of a similar nature and scope.
  - 1. Installer's Field Supervisor: Experienced mechanic [certified by metal panel manufacturer] supervising work on site whenever work is underway.
- D. Buy American Compliance: Materials provided under work of this Section shall comply with the Buy American Act per Section 00 4410.

#### **1.5 ADMINISTRATIVE REQUIREMENTS**

- A. Preinstallation Meeting: Prior to erection of framing, conduct preinstallation meeting at site attended by Owner, Architect, metal panel installer, metal panel manufacturer's technical representative, and related trade contractors.
  - 1. Coordinate building framing in relation to metal panel system.
  - 2. Coordinate openings and penetrations of metal panel system.  
Coordinate work of Division 07 Sections "Roof Specialties" and "Roof Accessories" and openings and penetrations and manufacturer's accessories with installation of metal panels.

## **1.6 ACTION SUBMITTALS**

- A. Product Data: Manufacturer's data sheets for specified products.
- B. Shop Drawings: Show layouts of metal panels. Include details of each condition of installation, panel profiles, and attachment to building. Provide details at a minimum scale 1-1/2-inch per foot of edge conditions, joints, fastener and sealant placement, flashings, openings, penetrations, curbs, vents, snow guards, lightning arresting equipment, and special details. Make distinctions between factory and field assembled work.
  - 1. Include data indicating compliance with performance requirements.
  - 2. Indicate points of supporting structure that must coordinate with metal panel system installation.
  - 3. Include structural data indicating compliance with performance requirements and requirements of local authorities having jurisdiction.
- C. Samples for Initial Selection: For each exposed product specified including sealants. Provide representative color charts of manufacturer's full range of colors.
- D. Samples for Verification:
  - 1. Provide 12-inch (305 mm) long section of each metal panel profile.  
Provide color chip verifying color selection.

## **1.7 INFORMATIONAL SUBMITTALS**

- A. Product Test Results: Indicating compliance of products with requirements.
- B. Qualification Information: For Installer firm and Installer's field supervisor.
- C. Accreditation Certificate: Indicating that manufacturer is approved under an accredited third-party Quality Control Program, including IAS AC472 and based upon chapter 17 of the International Building Code (IBC).
- D. Buy American Certification: Manufacturers' letters of compliance acceptable to authorities having jurisdiction, indicating that products comply with requirements.
- E. Manufacturer's Warranty: Sample copy of manufacturer's warranty.

## **1.8 CLOSEOUT SUBMITTALS**

- A. Maintenance data.
- B. Manufacturer's Warranty: Executed copy of manufacturer's warranty.

## **1.9 DELIVERY, STORAGE, AND HANDLING**

- A. Protect products of metal panel system during shipping, handling, and storage to prevent staining, denting, deterioration of components, or other damage. Protect panels and trim bundles during shipping. Protect painted surfaces with a strippable protective covering before shipping.
- B. Deliver, unload, store, and erect metal panels and accessory items without misshaping panels or exposing panels to surface damage from weather or construction operations.
- C. Store in accordance with Manufacturer's written instructions. Provide wood collars for stacking and handling in the field.

## **1.10 WARRANTY**

- A. Special Manufacturer's Warranty: Submit Manufacturer's two (2) year limited warranty providing panels to be free from defects in materials and workmanship, beginning from the date of substantial completion excluding coil coatings (paint finishes) that are covered under a separate warranty.
- B. The installation contractor shall issue a separate warranty against defects in installed materials and workmanship, beginning from the date of substantial completion of the installation.
- C. Special Panel Finish Warranty: Submit Manufacturer's limited warranty on the exterior paint finish for adhesion to the metal substrate and limited warranty on the exterior paint finish for chalk and fade.

## **PART 2 PRODUCTS**

### **2.1 MANUFACTURER**

- A. Basis of Design Manufacturer: Metl-Span, a Division of the Cornerstone Building Brands family; Lewisville, Texas Tel: 972.221.6656; Email: info@metlspan.com; Web: metlspan.com.
- B. Acceptable Manufacturers:
  1. Metl Span – www.metlspan.com – ThermalSafe Fire Resistant Panel
  2. Kingspan – www.kingspan.com – MF Fire Rated Shadowline
  3. Requests for substitutions will be considered in accordance with provisions of Section 01 6000 - Product Requirements.

### **2.2 PERFORMANCE REQUIREMENTS**

- A. General: Provide metal panel system meeting performance requirements as determined by application of specified tests by a qualified testing facility on manufacturer's standard assemblies.
- B. Structural Performance: Provide metal panel assemblies capable of withstanding the effects of indicated loads and stresses within limits and under conditions indicated, as determined by ASTM E72 or ASTM E1592 applied in accordance with ICC AC 04, Section 4, Panel Load Test Option or Section 5, Panel Analysis Option:
  1. Wind Loads: Determine loads based on applicable building code, wind speed, importance factor, exposure category, and internal pressure coefficient indicated on drawings.

- C. Wind Negative Pressure: Certify capacity of metal panels by testing of proposed assembly.
  - 1. Deflection Limits: Withstand inward and outward wind-load design pressures in accordance with applicable building code with maximum deflection of 1/240 of the span with no evidence of failure.
- D. Fire Performance Characteristics: Provide metal panel systems with the following fire-test characteristics determined by indicated test standard as applied by UL or other testing and inspection agency acceptable to authorities having jurisdiction.
  - 1. Fire-Resistance-Rated Assemblies: For fire-resistance-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E119 by an independent testing agency.
- E. Surface-Burning Characteristics: The insulating core shall have been tested per ASTM E 84. The core shall have:
  - 1. Flame spread index: 0.
  - 2. Smoke developed index: 0.
- F. Combustibility of Core Material: Non-combustible when tested in accordance with ASTM E136.
- G. Wall Panel Air Infiltration, ASTM E283:
  - 1. Maximum 0.04 cfm/sq. ft. (0.20 L/s per sq. m) at static-air-pressure difference of 12 lbf/sq. ft. (575 Pa).
- H. Wall Panel Water Penetration Static Pressure, ASTM E331: No uncontrolled water penetration at a static pressure of 20 lbf/sq. ft. (958 Pa).
- I. Thermal Movements: Allow for thermal movements from variations in both ambient and internal temperatures. Accommodate movement of support structure caused by thermal expansion and contraction. Allow for deflection and design for thermal stresses caused by temperature differences from one side of the panel to the other.
  - 1. Thermal Resistivity and Resistance (R-value) of mineral wool core indicated per ASTM C518 at 75 degree mean temperature.
  - 2. Heat Transfer Coefficient (U-factor) of panel assembly determined in accordance with one of the following:
    - a. ASTM C1363 testing conducted at a mean temperature of 75 deg. F (24 deg. C) heat flow horizontal, utilizing test specimen of minimum 64 sq. ft. (5.9 m<sup>2</sup>) incorporating at least two side joints, and not including air films
    - b. Finite element modeling in accordance with ASHRAE 90.1 Appendix A.

### **2.3 INSULATED METAL WALL PANELS**

- A. 2 HOUR Fire-Resistant-Thermal-Insulation-Core Metal Wall Panels: Structural metal panels consisting of exterior metal sheet with Santa Fe heavy embossing or Ultra-Light Mesa profile 1/32-inch- (0.79-mm-) and interior metal sheet with Ultra-Light Mesa profile 1/32-inch- (0.79-mm-) deep, with structural mineral wool core factory-bonded during fabrication in thermally-separated profile, with tongue-and-groove panel edges designed to form weathertight seals, attached to supports using exposed or non-exposed fasteners.
  - 1. Basis of Design: Metl-Span, ThermalSafe.
  - 2. Zinc Metallic Coated (Galvanized) Steel Sheet: ASTM A 653/A 653M, SS Grade 37, G90 (Z275), structural quality.



- a. Exterior Face Sheet: 24 gauge coated thickness, with stucco embossed surface
  - 1) Finish: [Modified silicone-polyester two-coat system] [Fluoropolymer two-coat system] [Fluoropolymer two-coat metallic color system].
  - 2) Color: [Match Architect's custom color].
- b. Interior Face Sheet: 24 gauge coated thickness, with stucco embossed surface.
3. Finish: [Polyester two-coat system] [Modified silicone-polyester two-coat system] [Fluoropolymer two-coat system] [Vinyl plastisol two-coat system] [304 Stainless Steel] [316 Stainless Steel].
  - a. Color: [As indicated] [As selected by Architect from manufacturer's standard colors] [Match Architect's custom color].
4. Panel Edge: Flush double tongue-and-groove joinery combined with integral spline providing uninterrupted continuity of mineral wool core.
5. Structural Insulating Core: Mineral wool, ASTM C612, Type IV B, Category 2, non-combustible, with oriented strand fibers aligned perpendicular to metal facing panels.
  - a. Nominal density of 8.5 lb/cu. ft. (128 kg/cu. m),
  - b. Thermal resistivity of 3.61 deg F x h x sq. ft./Btu x in. at 75 deg F (30.2 K x m/W at 24 deg C).
6. Panel Width: 42 inches (1067 mm).
7. Panel Thickness 6 inch (152 mm or as required to meet performance requirements as shown on drawings.
8. Thermal Resistance R-Value: 22

## 2.4 METAL WALL PANEL ACCESSORIES

- A. General: Provide complete metal panel assemblies incorporating trim, copings, fasciae, gutters and downspouts, and miscellaneous flashings. Provide required fasteners, closure strips, and sealants as indicated in manufacturer's written instructions.
- B. Flashing and Trim: Match material, thickness, and finish of metal panel face sheet.
- C. Panel Fasteners: Self-tapping screws and other acceptable fasteners recommended by metal panel manufacturer. Provide stainless steel corrosion-resistant fasteners with heads matching color of metal panels by means of factory-applied coating, with weathertight resilient washers.
- D. Joint Sealants: Refer to requirements for silicone sealant in Section 07 9005 "Joint Sealants."

## 2.5 FABRICATION

- A. General: Provide factory fabricated and finished metal panels, trim, and accessories meeting performance requirements, indicated profiles, and structural requirements.
- B. Fabricate metal panel joints configured to accept sealant tape providing weathertight seal and preventing metal-to-metal contact and minimizing noise resulting from thermal movement.
- C. Sheet Metal Flashing and Trim: Fabricate flashing and trim to comply with manufacturer's written instructions, approved shop drawings, and project drawings.

## 2.6 FINISHES

- A. Finishes, General: Prepare, pretreat, and apply coating to exposed metal surfaces to

comply with coating and resin manufacturers' written instructions.

- B. Exterior Face Sheet Coil-Coated Finish System
  - 1. Fluoropolymer Two-Coat System: 0.2 – 0.3 mil primer with 0.7 - 0.8 mil 70 percent PVDF fluoropolymer color coat, [meeting solar reflectance index requirements].
- C. Basis of Design: Metl-Span, Fluoropolymer.

## **PART 3 EXECUTION**

### **3.1 EXAMINATION**

- A. Examine metal panel system substrate with Installer present. Inspect for erection tolerances and other conditions that would adversely affect installation of metal panels.
- B. Inspect framing that will support insulated metal panels to determine if support components are installed as indicated on approved shop drawings and are within tolerances acceptable to metal panel manufacturer and installer. Confirm presence of acceptable framing members at recommended spacing to match installation requirements of metal panels.
- C. Panel Support Tolerances: Confirm that metal panel supports are within tolerances acceptable to metal panel manufacturer but not greater than the following:
  - 1. 1/4 inch (6 mm) in 20 foot (6100 mm) in any direction.
  - 2. 3/8 inch (9 mm) over any single roof plane.
  - 3. At Girt Spacing 10 feet (3048 mm) or more: 1/4 inches (6 mm), out only.
  - 4. At Girt Spacing Less Than 10 feet (3048 mm): 1/8 inches (3 mm), out only.
- D. Correct out-of-tolerance work and other deficient conditions prior to proceeding with insulated metal panel installation.

### **3.2 METAL PANEL INSTALLATION**

- A. Exposed or Non-Exposed Fastener, Bonded Fire-Resistant-Thermal-Insulation-Core Metal Wall Panels: Install metal panel system in accordance with manufacturer's written instructions, approved shop drawings for 2 hr fire-resistance-rated assembly, and project drawings. Install metal panels in orientation, sizes, and locations indicated. Anchor panels and other components securely in place. Provide for thermal and structural movement.
- B. Attach panels to metal framing using screws, fasteners, sealants, and adhesives recommended for application by metal panel manufacturer.
  - 1. Fasten metal panels to supports with fasteners at each location indicated on approved shop drawings, at spacing and with fasteners recommended by manufacturer.
  - 2. Cut panels in field where required using manufacturer's recommended methods.
  - 3. Provide weatherproof jacks for pipe and conduit penetrating metal panels.
  - 4. Dissimilar Materials: Where elements of metal panel system will come into contact with dissimilar materials, treat faces and edges in contact with dissimilar materials as recommended by metal panel manufacturer.
- C. Attach panel flashing trim pieces to supports using recommended fasteners and joint sealers.

- D. Joint Sealants: Install elastomeric Joint Sealants where indicated in manufacturer's written instructions and where additionally required for weatherproof performance of metal panel assemblies.
  - 1. Seal panel base assembly, openings, panel head joints, and perimeter joints using joint sealers indicated in manufacturer's written instructions.
  - 2. Prepare joints and apply sealants per requirements of Division 07 Section "Joint Sealants."

### **3.3 ACCESSORY INSTALLATION**

- A. General: Install metal panel accessories with positive anchorage to building and weathertight mounting; provide for thermal expansion. Coordinate installation with flashings and other components.
  - 1. Install components required for a complete metal panel assembly, including trim, copings, flashings, sealants, closure strips, and similar items.
  - 2. Comply with details of assemblies utilized to establish compliance with performance requirements and manufacturer's written installation instructions.
  - 3. Set units true to line and level as indicated. Install work with laps, joints, and seams that will be permanently weather resistant.

### **3.4 FIELD QUALITY CONTROL**

- A. Testing Agency: Owner will engage an independent testing and inspecting agency to perform field tests and inspections and to prepare test reports.

### **3.5 CLEANING AND PROTECTION**

- A. Remove temporary protective films immediately in accordance with metal panel manufacturer's instructions. Clean finished surfaces as recommended by metal panel manufacturer.
- B. Replace damaged panels and accessories that cannot be repaired to the satisfaction of the Architect.

**END OF SECTION 07 4213**

**SECTION 07 5000**  
**SINGLE-PLY ROOFING AND METAL PANEL ROOFING**

**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Modifications to existing single ply roofing membrane.
- B. Metal roofing panels to match existing roofing panels.

**1.2 REFERENCE STANDARDS**

- A. ASTM C578 - Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation 2019.
- B. ASTM D4434/D4434M - Standard Specification for Poly Vinyl Chloride Sheet Roofing 2015.
- C. FM DS 1-28 - Wind Design 2016.
- D. FM DS 1-29 - Roof Deck Securement and Above-Deck Roof Components 2016, with Editorial Revision (2020).
- E. NRCA (RM) - The NRCA Roofing Manual 2019.

**1.3 SUBMITTALS**

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide manufacturer's written information listed below.
- C. Shop Drawings: Indicate joint or termination detail conditions, conditions of interface with other materials, and paver layout.

**1.4 FIELD CONDITIONS**

- A. Do not apply roofing membrane during unsuitable weather.
- B. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.
- C. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.

**PART 2 PRODUCTS**

**2.1 MANUFACTURER**

- A. Verify roof membrane type and manufacturer of existing roof membrane and provide compatible materials.

## 2.2 ROOFING APPLICATIONS

- A. Existing PVC Membrane Roofing: One ply membrane, adhered, over insulation.
- B. Roofing Assembly Performance Requirements and Design Criteria:

## 2.3 ROOFING MEMBRANE AND ASSOCIATED MATERIALS

- A. Membrane – verify that existing membrane is PVC; if not provide associated materials as recommended by the manufacturer for the existing membrane:
  - 1. Material: Polyvinyl chloride (PVC) complying with ASTM D4434/D4434M.
- B. Seaming Materials: As recommended by membrane manufacturer.
- C. Membrane Fasteners: As recommended and approved by membrane manufacturer.
- D. Flexible Flashing Material: Same material as membrane.

## 2.4 METAL ROOF PANEL

- A. Provide roof panel to match existing profile. Provide metal panel gage as recommended by roof membrane manufacturer.

## 2.5 INSULATION

- A. Expanded Polystyrene (EPS) Board Insulation: Complies with ASTM C578, Provide thickness to provide flush surface with existing.

## 2.6 ACCESSORIES

- A. Insulation Fasteners: Appropriate for purpose intended and approved by roofing manufacturer.
- B. Membrane Adhesive: As recommended by membrane manufacturer.
- C. Surface Conditioner for Adhesives: Compatible with membrane and adhesives.
- D. Sealants: As recommended by membrane manufacturer.
- E. Cleaner: Manufacturer's standard, clear, solvent-based cleaner.
- F. Edgings and Terminations: Manufacturer's standard edge and termination accessories.
  - 1. Snap-On Edge System.
  - 2. Anchor Bar Fascia System.
  - 3. Drip Edge: Carlisle Sure-Seal Drip Edge.
  - 4. Coping.
  - 5. PVC Coated Sheet Metal.
  - 6. Termination Bar.

## **PART 3 EXECUTION**

### **3.1 EXAMINATION**

- A. Roll back and protect existing roof membrane while wall and structure are installed.
- B. Verify that surfaces and site conditions are ready to receive work.
- C. Verify deck is supported and secure.
- D. Verify deck is clean and smooth, flat, free of depressions, waves, or projections, properly sloped and suitable for installation of roof system.
- E. Verify deck surfaces are dry and free of snow or ice.

### **3.2 INSTALLATION - GENERAL**

- A. Perform work in accordance with manufacturer's instructions and NRCA (RM) applicable requirements.
- B. Do not apply roofing membrane during unsuitable weather.
- C. Do not apply roofing membrane when ambient temperature is outside the temperature range recommended by manufacturer.
- D. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.
- E. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.

### **3.3 INSTALLATION - GENERAL**

- A. Perform work in accordance with manufacturer's instructions.
- B. Do not apply roofing membrane during unsuitable weather.
- C. Do not apply roofing membrane when ambient temperature is outside the temperature range recommended by manufacturer.
- D. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.
- E. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.

### **3.4 INSULATION**

- A. Attachment of Insulation:

1. Mechanically fasten insulation to deck in accordance with roofing manufacturer's instructions and Factory Mutual requirements. Install to match existing adjacent thickness to secure existing roof membrane.

B. Do not apply more insulation than can be completely waterproofed in the same day.

### 3.5 MEMBRANE APPLICATION

A. Roll out membrane, free from wrinkles or tears. Place sheet into place without stretching.

B. Shingle joints on sloped substrate in direction of drainage.

C. Seam Welding:

1. Seam Welding: Overlap edges and ends and seal seams by heat welding, min. 2 inches.
2. Cover all seams with manufacturer's recommended joint covers.
3. Probe all seams once welds have thoroughly cooled. (Approximately 30 minutes.)
4. Repair all deficient seams within the same day.
5. Seal cut edges of reinforced membrane after seam probe is complete.

D. Mechanical Attachment:

1. Apply membrane and mechanical attachment devices in accordance with manufacturer's instructions.

E. Daily Seal: Install daily seal per manufacturer's instructions at the end of each work day. Prevent infiltration of water at incomplete flashings, terminations, and at unfinished membrane edges.

### 3.6 CLEANING

A. See Section 01 7419 - Construction Waste Management and Disposal, for additional requirements.

B. Remove bituminous markings from finished surfaces.

C. In areas where finished surfaces are soiled by work of this section, consult manufacturer of surfaces for cleaning advice and conform to their documented instructions.

D. Repair or replace defaced or damaged finishes caused by work of this section.

**END OF SECTION 07 5419**

**SECTION 07 6200**  
**SHEET METAL FLASHING AND TRIM**

**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Fabricated sheet metal items, including flashings and counterflashings.
- B. Sealants for joints within sheet metal fabrications.

**1.2 RELATED REQUIREMENTS**

- A. Section 06 1000 - Rough Carpentry: Wood nailers for sheet metal work.
- B. Section 07 7100 - Roof Specialties
- C. Section 07 4213 – Insulated Metal Wall Panels

**1.3 REFERENCE STANDARDS**

- A. AAMA 611 - Voluntary Specification for Anodized Architectural Aluminum 2014 (2015 Errata).
- B. AAMA 2605 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix) 2017a.
- C. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process 2019a.

**1.4 SUBMITTALS**

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Shop Drawings: Indicate material profile, jointing pattern, jointing details, fastening methods, flashings, terminations, and installation details.

**1.5 DELIVERY, STORAGE, AND HANDLING**

- A. Stack material to prevent twisting, bending, and abrasion, and to provide ventilation. Slope metal sheets to ensure drainage.
- B. Prevent contact with materials that could cause discoloration or staining.

**PART 2 PRODUCTS**

**2.1 SHEET MATERIALS**

- A. Pre-Finished Galvanized Steel: ASTM A653/A653M, with G90/Z275 zinc coating; minimum 24 gage, (0.0239) inch (0.61 mm) thick base metal, shop pre-coated with PVDF coating.



1. PVDF (Polyvinylidene Fluoride) Coating: Superior Performance Organic Finish, AAMA 2605; multiple coat, thermally cured fluoropolymer finish system.
2. Color: As selected by Architect from manufacturer's standard colors.

## 2.2 ACCESSORIES

- A. Fasteners: Stainless steel with soft neoprene washers.

## 2.3 FABRICATION

- A. Form sections true to shape, accurate in size, square, and free from distortion or defects.
- B. Form pieces in longest possible lengths.
- C. Hem exposed edges on underside 1/2 inch (13 mm); miter and seam corners.
- D. Form material with flat lock seams, except where otherwise indicated; at moving joints, use sealed lapped, bayonet-type or interlocking hooked seams.
- E. Fabricate corners from one piece with minimum 18 inch ( 450 mm ) long legs; seam for rigidity, seal with sealant.
- F. Fabricate flashings to allow toe to extend 2 inches (50 mm) over roofing. Return and brake edges.

## PART 3 EXECUTION

### 3.1 PREPARATION

- A. Install starter and edge strips, and cleats before starting installation.

### 3.2 INSTALLATION

- A. Secure flashings in place using concealed fasteners, and use exposed fasteners only where permitted.
- B. Fit flashings tight in place; make corners square, surfaces true and straight in planes, and lines accurate to profiles.
- C. Seal metal joints watertight.

**END OF SECTION 07 6200**

**SECTION 07 9005  
JOINT SEALERS**

**PART 1 GENERAL**

**1.1 RELATED REQUIREMENTS**

- A. Section 07 4213 – Insulated Metal Panels
- B. Section 07 6100 – Roof Specialties

**1.2 REFERENCE STANDARDS**

- A. ASTM C834 - Standard Specification for Latex Sealants 2017.
- B. ASTM C919 - Standard Practice for Use of Sealants in Acoustical Applications 2018.
- C. ASTM C920 - Standard Specification for Elastomeric Joint Sealants 2018.
- D. ASTM C1193 - Standard Guide for Use of Joint Sealants 2016.
- E. ASTM D2240 - Standard Test Method for Rubber Property--Durometer Hardness 2015, with Editorial Revision (2017).
- F. SCAQMD 1168 - Adhesive and Sealant Applications 1989 (Amended 2017).

**1.3 SUBMITTALS**

- A. See Section 01 3300 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data indicating sealant chemical characteristics.
- C. Samples: Submit two samples, 1/4 x 3 inch in size illustrating sealant colors for selection.

**1.4 FIELD CONDITIONS**

- A. Maintain temperature and humidity recommended by the sealant manufacturer during and after installation.

**PART 2 PRODUCTS**

**2.1 MANUFACTURERS**

- A. Gunnable and Pourable Sealants:
  - 1. BASF Construction Chemicals-Building Systems: [www.buildingsystems.basf.com/#sle](http://www.buildingsystems.basf.com/#sle).
  - 2. Bostik Inc: [www.bostik-us.com/#sle](http://www.bostik-us.com/#sle).
  - 3. Dow Corning Corporation: [www.dowcorning.com/#sle](http://www.dowcorning.com/#sle).
  - 4. Hilti, Inc: [www.us.hilti.com/#sle](http://www.us.hilti.com/#sle).

5. Tremco Global Sealants: [www.tremcosealants.com/#sle](http://www.tremcosealants.com/#sle).

## 2.2 SEALANTS

- A. Type ESL-1 - General Purpose Exterior Sealant: Silicone; ASTM C920, Grade NS, Class 50, Uses A, G, M, and O; single component.
  1. Color: To be selected by Owner's representative and Architect from manufacturer's standard range.
  2. Acceptable Products:
    - a. 795, manufactured by Dow Corning: [www.dowcorning.com](http://www.dowcorning.com).
    - b. GE Silpruf SCS2000, Momentive Performance Materials.
  3. Applications: Use for:
    - a. Joints between concrete and other materials.
    - b. Joints between metal frames and other materials.
    - c. Other exterior joints for which no other sealant is indicated.
- B. Type ESL-2 - Exterior Metal Lap Joint Sealant: Butyl or polyisobutylene, nondrying, nonskinning, noncuring.
  1. Applications: Use for:
    - a. Concealed sealant bead in sheet metal work.
    - b. Concealed sealant bead in siding overlaps.
- C. Type ISL-1 - Silicone Sealant: ASTM C920, Grade NS, Class 25, Uses NT, A, G, M, O; single component, neutral curing, non-sagging, non-staining, fungus resistant, non-bleeding.
  1. Color: To be selected by Owner's representative from manufacturer's standard range.
  2. Movement Capability: Plus and minus 25 percent.
  3. Service Temperature Range: -65 to 180 degrees F (-54 to 82 degrees C).
  4. Shore A Hardness Range: 15 to 35.
  5. Products:
    - a. Bostik Inc: [www.bostik-us.com](http://www.bostik-us.com).
    - b. Dow Corning Corporation; 790: [www.dowcorning.com](http://www.dowcorning.com).
    - c. Substitutions: See Section 01 6000 - Product Requirements.

D. Type ISL-2 - Silicone Sealant: ASTM C920, Grade NS, Class 25, Uses NT, A, G, M, O; single component, acid curing, non-sagging, non-staining, fungus resistant, non-bleeding.

1. Color: To be selected by Owner's representative from manufacturer's standard range.
2. Movement Capability: Plus and minus 25 percent.
3. Service Temperature Range: -65 to 180 degrees F (-54 to 82 degrees C).
4. Shore A Hardness Range: 15 to 35.
5. Products:
  - a. Bostik Inc: [www.bostik-us.com](http://www.bostik-us.com).
  - b. Dow Corning Corporation; 786 Mildew Resistant: [www.dowcorning.com](http://www.dowcorning.com).
  - c. Substitutions: See Section 01 6000 - Product Requirements.

### 2.3 ACCESSORIES

- A. Primer: Non-staining type, recommended by sealant manufacturer to suit application.
- B. Joint Backing: Round foam rod compatible with sealant; ASTM D1056 sponge or expanded rubber; oversized 30 to 50 percent larger than joint width.
- C. Bond Breaker: Pressure sensitive tape recommended by sealant manufacturer to suit application.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Verify that substrate surfaces are ready to receive work.
- B. Verify that joint backing and release tapes are compatible with sealant.

### 3.2 PREPARATION

- A. Remove loose materials and foreign matter that could impair adhesion of sealant.
- B. Clean and prime joints in accordance with manufacturer's instructions.
- C. Perform preparation in accordance with manufacturer's instructions and ASTM C1193.
- D. Protect elements surrounding the work of this section from damage or disfigurement.

### 3.3 INSTALLATION

- A. Perform work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.

- B. Perform installation in accordance with ASTM C1193.
- C. Perform acoustical sealant application work in accordance with ASTM C919.
- D. Install bond breaker where joint backing is not used.
- E. Install sealant free of air pockets, foreign embedded matter, ridges, and sags.
- F. Apply sealant within recommended application temperature ranges. Consult manufacturer when sealant cannot be applied within these temperature ranges.
- G. Tool joints concave.
- H. Concrete Floor Joint Filler: Install concrete floor joint filler per manufacturer's written instructions. After floor joint filler is fully cured, shave joint filler flush with top of concrete slab.

### 3.4 **CLEANING**

- A. Clean adjacent soiled surfaces.

### 3.5 **PROTECTION**

- A. Protect sealants until cured.

### 3.6 **SCHEDULE**

- A. Joints Between Concrete and Between Panels and Adjacent Work: Type ESL-1.
- B. Lap Joints in Exterior Sheet Metal Work: Type ESL-1.
- C. Butt Joints in Exterior Metal Work and Siding: Type ESL-1.
- D. Joints Between Exterior Metal Frames and Adjacent Work (except masonry): Type ISL-1.
- E. Under Exterior Door Thresholds: Type ESL-1.
- F. Interior Joints for Which No Other Sealant is Indicated: Type ISL-2; colors as selected by Architect.

**END OF SECTION 07 9005**

**SECTION 09 9000  
PAINTING AND COATING**

**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Surface preparation.
- B. Field application of paints, stains, varnishes, and other coatings.
- C. Surfaces to be finished are indicated in this section and on the Drawings.

**1.2 RELATED REQUIREMENTS**

- A. Section 05 5000 Structural Steel

**1.3 SUBMITTALS**

- A. See Section 01 3300 - Submittal Procedures, for submittal procedures.
- B. Product Data: Provide complete list of all products to be used, with the following information for each:
  - 1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
  - 2. MPI product number (e.g. MPI #47).
  - 3. Cross-reference to specified paint system(s) product is to be used in; include description of each system (copy of relevant MPI Manual page is acceptable).
  - 4. VOC content for all coatings used.
  - 5. Manufacturer's installation instructions: Indicate special surface preparation procedures and substrate conditions requiring special attention.
- C. Certification: By manufacturer that all paints and coatings do not contain any of the prohibited chemicals specified; GreenSeal GS-11 certification is not required but if provided shall constitute acceptable certification.
- D. Samples: Submit three paper "drop" samples, 8-1/2 by 11 inches (216 by 279 mm) in size on rigid backing, illustrating range of colors available for each finishing product specified.
  - 1. Where sheen is specified, submit samples in only that sheen.
  - 2. Label each coat of each Sample.
  - 3. Label each Sample for location and application area.
- E. Product List: For each product indicated, include the following:
  - 1. Cross-reference to paint system and locations of application areas. Use same designations indicated on Drawings and in schedules.
    - a. Where sheen is not specified, submit each color in each sheen available.

- F. Maintenance Data: Submit data on cleaning, touch-up, and repair of painted and coated surfaces.

#### 1.4 **QUALITY CONTROL**

- A. Applicator Qualifications: Company specializing in performing the work of this section with minimum five years documented experience.
- B. Maintain one copy of relevant portions of MPI Architectural Painting Specification Manual on project site at all times.

#### 1.5 **DELIVERY, STORAGE, AND HANDLING**

- A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
- B. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.
- C. Paint Materials: Store at minimum ambient temperature of 45 degrees F and a maximum of 90 degrees F in ventilated area, and as required by manufacturer's instructions.
  - 1. Maintain containers in clean condition, free of foreign materials and residue.
  - 2. Remove rags and waste from storage areas daily.

#### 1.6 **FIELD CONDITIONS**

- A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.
- B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.
- C. Do not apply exterior coatings during rain or snow, or when relative humidity is outside the humidity ranges required by the paint product manufacturer.
- D. Do not apply paints when relative humidity exceeds 85 percent; at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces.
- E. Provide lighting level of 80 ft candles (860 lx) measured mid-height at substrate surface.

#### 1.7 **EXTRA MATERIALS**

- A. Supply 1 gallon of each color; store where directed.
- B. Label each container with color in addition to the manufacturer's label.

#### 1.8 **DEFINITIONS**

- A. Conform to ASTM D 16 for interpretation of terms used in this section.

## **PART 2 PRODUCTS**

### **2.1 MANUFACTURERS**

- A. Provide all paint and coating products used in any individual system from the same manufacturer; no exceptions.
- B. Paints:
  - 1. Benjamin Moore & Co: [www.benjaminmoore.com](http://www.benjaminmoore.com).
  - 2. PPG Architectural Finishes, Inc: [www.ppgaf.com](http://www.ppgaf.com).
  - 3. Pratt & Lambert Paints: [www.prattandlambert.com](http://www.prattandlambert.com).
  - 4. Sherwin Williams, [www.sherwin-williams.com](http://www.sherwin-williams.com).
  - 5. Devoe Paint, [www.devoe.com](http://www.devoe.com)
  - 6. ICI Paints, [www.icipaints.com](http://www.icipaints.com)
- C. Interior Architectural Cast-in-Place Concrete Sealer:
  - 1. Prosoco, Product Block-Guard and Graffiti Control II: [www.prosoco.com](http://www.prosoco.com).
  - 2. Protectosil, Product Aquatreat SG; [www.protectosil.com](http://www.protectosil.com).

### **2.2 MATERIALS - GENERAL**

- A. Volatile Organic Compound (VOC) Content:
  - 1. Provide coatings that comply with the most stringent requirements specified in the following:
    - a. 40 CFR 59, Subpart D--National Volatile Organic Compound Emission Standards for Architectural Coatings.
    - b. Ozone Transport Commission (OTC) Model Rule, Architectural, Industrial, and Maintenance Coatings; [www.otcair.org](http://www.otcair.org); specifically:
      - 1) Opaque, Flat: 50 g/L, maximum.
      - 2) Opaque, Nonflat: 150 g/L, maximum.
      - 3) Opaque, High Gloss: 250 g/L, maximum.
      - 4) Varnishes: 350 g/L, maximum.
  - 2. Determination of VOC Content: Testing and calculation in accordance with 40 CFR 59, Subpart D (EPA Method 24), exclusive of colorants added to a tint base and water added at project site; or other method acceptable to authorities having jurisdiction.
- B. Chemical Content: The following compounds are prohibited:



1. Aromatic Compounds: In excess of 1.0 percent by weight of total aromatic compounds (hydrocarbon compounds containing one or more benzene rings).
  2. Acrolein, acrylonitrile, antimony, benzene, butyl benzyl phthalate, cadmium, di (2-ethylhexyl) phthalate, di-n-butyl phthalate, di-n-octyl phthalate, 1,2-dichlorobenzene, diethyl phthalate., dimethyl phthalate, ethylbenzene, formaldehyde, hexavalent chromium, isophorone, lead, mercury, methyl ethyl ketone, methyl isobutyl ketone, methylene chloride, naphthalene, toluene (methylbenzene), 1,1,1-trichloroethane, vinyl chloride.
- C. Paints and Coatings: Provide products listed in Master Painters Institute Approved Product List, current edition available at [www.paintinfo.com](http://www.paintinfo.com), for specified MPI Categories, except as otherwise indicated.
1. Provide ready mixed paints and coatings , except field-catalyzed coatings.
  2. Provide materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.

### 2.3 PAINT SYSTEMS

- A. Provide Premium Grade systems (2 top coats) as defined in MPI Architectural Painting Specification Manual, except as otherwise indicated.
- B. Where sheen is not specified or more than one sheen is specified, sheen will be selected later by Architect from the manufacturer's full line. Assume most expensive sheen.
- C. Provide colors as scheduled on Drawings or directed by Architect.

### 2.4 EXTERIOR PAINT AND COATING SYSTEMS

- A. Structural Steel and Metal Fabrications:
  1. High-Build Urethane Coating for ferrous metals:
  2. Tenemec:
    - a. Apply coating in the thickness recommended by manufacturers written instructions.
    - b. Shop applied primer: 394 PerimePrime
    - c. Basecoat: 115 Uni-bond DF
    - d. Topcoats: 1081 Endura Shield WB
  3. Carboline:
    - a. Shop applied primer: Carbozinc 859 applied at 3 to 5 mil dry film thickness
    - b. Field Repair Primer: Carbomastic applied at 5 to 7 mil dry film thickness.
    - c. Basecoat: Carboguard 890 applied at 4 to 6 mils dry film thickness
    - d. Topcoat: Carbothane 133HB applied at 3 to 5 mils dry film thickness

B. Galvanized Metal, Not Chromate Passivated:

1. Paint : EXT 5.3B Alkyd: Cementitious Primer MPI #26, Finish MPI #94, semi-gloss.
  - a. Sheen: Semi-gloss.
2. Coating : EXT 5.3J W.B. Light Industrial Coating: W.B. Primer MPI #134, W.B. Light Industrial Coating MPI #163, semi-gloss.

**2.5 INTERIOR PAINT AND COATING SYSTEMS**

A. Structural Steel and Metal Fabrications:

1. Paint : INT 5.1S Institutional Low Odor/VOC: Rust Inhibitive Primer #107, Institutional Low Odor/VOC MPI #147, gloss level 5.

B. Galvanized Metal, Not Chromate Passivated:

1. Applications include but are not limited to doors, frames, railings, and piping.
2. Paint : INT 5.3N Institutional Low Odor/VOC: W.B. Galvanized Primer MPI #134, Institutional Low Odor/VOC MPI #147, gloss level 5.

C. Gypsum Board:

1. Applications include but are not limited to walls, ceilings, soffits, and bulkheads.
2. Paint: INT 9.2B High Performance Architectural Latex: Latex Primer Sealer MPI #50, HIPAC Latex MPI #139, gloss level 3.
3. Coatin : INT 9.2L W.B. Light Industrial Coating: Latex Primer Sealer MPI #50, W.B. Light Industrial Coating MPI #154, gloss.

**PART 3 EXECUTION**

**3.1 SCOPE -- SURFACES TO BE FINISHED**

- A. Paint all exposed surfaces except where indicated not to be painted or to remain natural; the term "exposed" includes areas visible through permanent and built-in fixtures when they are in place. It is the intent of this Section to include finish for all new material and surfaces including factory primed or unfinished materials, unless specifically indicated as not requiring finish
- B. Paint the surfaces described in PART 2, indicated on the Drawings, and as follows:
  1. If a surface, material, or item is not specifically mentioned, paint in the same manner as similar surfaces, materials, or items, regardless of whether colors are indicated or not or obtain clarification from Architect.
  2. Surface preparation, prime coats and finish coats specified are in addition to surface treatments and prime coats specified in other Sections of the Specification.
  3. The number of coats specified is to be interpreted as the minimum number required. Apply additional coats if required to achieve complete coverage and

concealment of surface receiving finish or to achieve uniformity of color, sheen and texture.

4. Paint surfaces behind movable equipment and furnishings the same as similar exposed surfaces.
  5. Paint surfaces to be concealed behind permanently installed fixtures, equipment, and furnishings, using primer only, prior to installation of the permanent item.
  6. Paint back sides of access panels and removable and hinged covers to match exposed surfaces.
- C. Use products specified in this section and on schedules to finish all surfaces, unless otherwise indicated, including but not limited to the following:
1. Interior wall and ceiling surfaces.
  2. Opening frames and trim.
  3. Exterior wood.
  4. Exterior metal items.
  5. All shop-primed items.
- D. Do Not Paint or Finish the Following Items:
1. Items fully factory-finished unless specifically noted; factory-primed items are not considered factory-finished.
  2. Items indicated to receive other finish.
  3. Items indicated to remain naturally finished.
  4. Fire rating labels, equipment serial number and capacity labels, and operating parts of equipment.
  5. Anodized aluminum.
  6. Polished and brushed stainless steel items.
  7. Polished and brushed stainless steel, anodized aluminum, bronze, terne, and lead.

### 3.2 EXAMINATION

- A. Verify that surfaces are ready to receive Work as instructed by the product manufacturer.
- B. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.
- C. Test shop-applied primer for compatibility with subsequent cover materials; report incompatible primer conditions and submit recommended changes for Architect's approval.
- D. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following maximums:

1. Plaster and Gypsum Board: 12 percent.
2. Interior Wood: 15 percent, measured in accordance with ASTM D4442.

### 3.3 PREPARATION

- A. Prepare surfaces as specified in MPI Architectural Painting Specification Manual and as follows for the applicable surface and coating; if multiple preparation treatments are specified, use as many as necessary for best results; where the Manual references external standards for preparation (e.g. SSPC standards), prepare as specified in those standards; comply with coating manufacturer's specific preparation methods or treatments, if any.
- B. Coordinate painting work with cleaning and preparation work so that dust and other contaminants do not fall on newly painted, wet surfaces.
- C. Surface Appurtenances: Prior to preparing surfaces or finishing, remove electrical plates, hardware, light fixtures, light fixture trim, escutcheons, machined surfaces, fittings, and similar items already installed that are not to be painted.
  1. If removal is impractical or impossible because of the size or weight of the item, provide surface-applied protection before preparation and finishing.
  2. After completing painting in each space or area, reinstall items removed using workers skilled in the trades involved.
- D. Surfaces: Correct defects and clean surfaces which affect work of this section. Remove or repair existing coatings that exhibit surface defects.
- E. Marks: Seal with shellac those which may bleed through surface finishes.
- F. Impervious Surfaces: Remove mildew by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.
- G. Gypsum Board Surfaces to be Painted: Fill minor defects with filler compound. Spot prime defects after repair.
- H. Galvanized Surfaces to be Painted: Remove surface contamination and oils and wash with solvent. Apply coat of etching primer.
- I. Uncoated Steel and Iron Surfaces to be Painted: Remove grease, mill scale, weld splatter, dirt, and rust. Where heavy coatings of scale are evident, remove by hand wire brushing or sandblasting; clean by washing with solvent. Apply a treatment of phosphoric acid solution, ensuring weld joints, bolts, and nuts are similarly cleaned. Prime paint entire surface; spot prime after repairs.
  1. Exterior structural Steel and Metal Fabrications:
    - a. Solvent clean.
    - b. Remove loose rust, loose mill scale, and other foreign substances using blast cleaning according to SSPC-SP 11 Power Tool Cleaning to an SP-6.

- J. Shop-Primed Steel Surfaces to be Finish Painted: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces. Re-prime entire shop-primed item.

### 3.4 APPLICATION

- A. Apply products in accordance with manufacturer's instructions and as specified or recommended by MPI Manual, using the preparation, products, sheens, textures, and colors as indicated.
  - 1. Remove, refinish, or repaint work not complying with requirements.
- B. Do not apply finishes over dirt, rust, scale, grease, moisture, scuffed surfaces, or other conditions detrimental to formation of a durable coating film; do not apply finishes to surfaces that are not dry.
- C. Use applicators and methods best suited for substrate and type of material being applied and according to manufacturer's instructions.
  - 1. Brush Application: Use brushes best suited for the type of material applied; use brush of appropriate size for the surface or item being painted; produce results free of visible brush marks.
  - 2. Roller Application: Use rollers of carpet, velvet back, or high-pile sheep's wool as recommended by manufacturer for material and texture required.
  - 3. Spray Application: Use airless spray equipment with orifice size as recommended by manufacturer for material and texture required.
  - 4. Where application method is listed in the MPI Manual for the paint system that application method is required; otherwise any application method recommended by manufacturer for material used and objects to be painted is acceptable.
- D. Minimum Coating Thickness: Apply paint materials no thinner than manufacturer's recommended spreading rate; provide total dry film thickness of entire system as recommended by manufacturer.
  - 1. Number of coats and film thickness required are the same regardless of application method.
  - 2. If undercoats, stains, or other conditions show through final coat of paint, apply additional coats until paint film is of uniform finish, color, and appearance.
  - 3. Give special attention to ensure edges, corners, crevices, welds, and exposed fasteners receive dry film thickness equivalent to that of flat surfaces.
- E. Apply finish to completely cover surfaces with uniform appearance without brush marks, runs, sags, laps, ropiness, holidays, spotting, cloudiness, or other surface imperfections.
  - 1. Before applying finish coats, apply a prime coat of material recommended by manufacturer, unless the surface has been prime coated by others; where evidence of suction spots or unsealed areas in first coat appear, recoat primed and sealed surfaces to ensure finish coat with no burn through or other defects due to insufficient sealing.

2. Apply first coat to surface that has been cleaned, pretreated, or otherwise prepared as soon as practical after preparation and before subsequent surface deterioration.
  3. Do not apply succeeding coats until the previous coat has cured as recommended by manufacturer.
  4. Do not recoat until paint has dried to where it feels firm, does not deform or feel sticky under moderate thumb pressure, and application of another coat will not cause the undercoat to lift or lose adhesion.
  5. If manufacturer's instructions recommend sanding to produce a smooth, even surface, sand between coats.
  6. Before applying next coat vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.
- F. Where adjacent sealant is to be painted, do not apply finish coats until sealant is applied.

### **3.5 CLEANING AND PROTECTION**

- A. Collect waste material which may constitute a fire hazard, place in closed metal containers, and remove daily from site.
- B. At the end of each workday, remove empty cans, rags, rubbish, and other discarded paint materials from site.
- C. Protect other work, whether being painted or not, against damage by painting. Correct damage by cleaning, repairing or replacing, and repainting as approved by Architect.
- D. Provide "Wet Paint" signs to protect newly painted finishes. Remove temporary protective wrappings provided by others to protect their work after completing painting operations.
- E. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces. Comply with procedures specified in MPI Manual.

**END OF SECTION 09 9000**

**SECTION 13 3423  
FIBERGLASS BUILDINGS AND ENCLOSURES**

**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Freestanding, shop fabricated fiberglass reinforced plastic (FRP) composite buildings including the following:
  - 1. Doors and frames.
  - 2. Lighting.

**1.2 RELATED SECTIONS**

- A. Section 07 90 00 - Joint Protection.

**1.3 REFERENCES**

- 1. ASTM E 72 - Standard Test Method of Conducting Strength Tests of Panels for Building Construction
- 2. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- 3. ASTM C 582 - Standard Specification for Contact Molded Reinforced Thermosetting Plastic (FRP) Laminates for Corrosion-Resistant Equipment
- B. American Society of Civil Engineers (ASCE):
  - 1. ASCE 7 - Minimum Design Loads for Buildings and Other Structures.
- C. Building Officials Code Administrators International (BOCA).
- D. FM Global.

**1.4 DESIGN REQUIREMENTS**

- A. Overall Outside Dimensions (in/mm):
  - 1. Length: 12'-0".
  - 2. Width: 8'-0".
  - 3. Eave and Wall Height: 8'-0".
- B. Waterproof, air tight, corrosion resistant, chemical resistant, lightweight, and environmentally aesthetic.
- C. Code Requirements:
  - 1. International Building Code with local amendments.
  - 2. State and local authorities having jurisdiction.

## 1.5 SUBMITTALS

- A. Submit under provisions of Section 01 3300 – Submittal Procedures.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
  - 1. Construction details, material descriptions, dimensions of individual components and profiles, and finishes.
  - 2. Preparation instructions and recommendations.
  - 3. Storage and handling requirements and recommendations.
  - 4. Installation methods.
- C. Shop Drawings: Include plans, elevations, sections, details, and attachments to other work.
- D. Delegated Electrical Design Drawings prepared and stamped by an Electrical Engineer licensed to practice in Alaska.
- E. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
- F. Buy American Certification: Manufacturers' letters of compliance acceptable to authorities having jurisdiction, indicating that products comply with requirements.
- G. Warranty Documentation: For warranty as specified herein.

## 1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing FRP prefabricated structures with a minimum documented experience of five years.
- B. Engineering Responsibility: Preparation of comprehensive engineering analysis and Shop Drawings by a professional engineer who is legally qualified to practice in jurisdiction where Project is located.
- C. Prefabricated Components: Comply with manufacturer's published literature for products meeting indicated design loads in accordance with state and local requirements as applicable.
- D. Preconstruction and Preinstallation Meetings: Conduct meetings to verify project requirements, substrate conditions, utility connections, manufacturer's installation instructions, and warranty requirements. Comply with Division 1 requirements.

## 1.7 DELIVERY, STORAGE, AND HANDLING

- A. Shrink-wrap the completed structure or building components with protective plastic for shipment to and storage at the job site.
  - 1. Support structure for shipment and handling to prevent warping and fracturing.
- B. Store products in manufacturer's unopened packaging until ready for installation.
- C. Protect all components and accessories from corrosion, deformation, damage and deterioration when stored at job site. Keep materials free from dirt and foreign matter.



## 1.8 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

## 1.9 WARRANTY

- A. Manufacturer's Warranties: Provide manufacturer's 1-year limited warranty on products of its manufacture to be free of leaks and defects in materials and workmanship from date of shipment.
- B. Provide manufacturer's warranties on all accessory items provided such as, but not limited to, lighting, doors, windows, and HVAC equipment.

## PART 2 PRODUCTS

### 2.1 MANUFACTURERS

- A. Acceptable Manufacturer:
  - 1. ALCHEM, Inc., of Anchorage, Alaska
  - 2. Plaschem Supply & Consulting, of Anchorage Alaska
- B. Requests for substitutions will be considered in accordance with provisions of Section 01 6000 - Product Requirements.

### 2.2 PERFORMANCE REQUIREMENTS

- A. Cooperate with regulatory agency or authority and provide data as requested by authority having jurisdiction.
- B. Prefabricated structures and shelters specified herein shall be handicapped accessible in accordance with ICC/ANSI A117.1 and other state and local requirements as applicable.
- C. Design to sustain superimposed loads for load combinations in accordance with ASCE 7 and as applicable at the location of the project.
- D. Design to withstand effects of gravity loads and the following loads and stresses within limits and under conditions indicated.
  - 1. Determine loads based on the following minimum as determined by local codes or as indicated below, whichever is greater:
    - a. Dead load of building.
    - b. Mechanical equipment.
    - c. Uniform pressure as indicated on Structural Drawings.
    - d. Wind Load: As indicated on Structural Drawings.
    - e. Snow Load: As indicated on Structural Drawings.

- f. Live Load: Meet requirements of local authorities having jurisdiction.
- 2. Stresses produced by specified load conditions shall be determined consistent with recognized methods of analysis.
- E. Seismic Performance: Capable of withstanding effects of earthquake motions according to ASCE 7 - Minimum Design Loads for Buildings and Other Structures: Section 9 - Earthquake Loads.
- F. Electrical Devices: Devices UL listed with wiring bearing UL classification and conforming to the current NEC.

## 2.3 MATERIALS

### A. Panels and Facings.

- 1. The enclosure may be constructed with separate interlocking panels forming the walls and roof or as a single unit. The enclosure exterior walls shall be foamed in place polyurethane core with interior surface and exterior surface will be fiberglass reinforced polyester. The exterior color shall be a factory applied and shall be white.
- 2. The side of the facings which contact the insulation core shall have a coating that will allow core-to-facing bond to be equal or greater than the cohesive strength of the core.

### B. Insulation core.

- 1. Factory foamed-in-place polyurethane between facings. Insulating value of the composite roof system shall be equal to or greater than R-38, and the wall system equal to or greater than R-19. No voids are allowed in the core.
- 2. Polyurethane shall have a minimum 2 lbs/ft<sup>3</sup> density.
- 3. Polyurethane shall be certified UL flame spread 25 or less per ASTM E 84.

### C. The panel joints shall have tongue and groove or ship lap interlock with continuous silicone sealant tape at interior and exterior faces.

### D. Panels shall be full length in single piece where practical.

### E. Metal flashing and trim at corners, intersections, openings, eaves and ridges shall be of the same finish and 24 gauge thickness to effect a neat appearing, weather tight joint and closure. Provide wrap-around door jamb trim-flashing.

### F. Enclosure shall have a 12-inch x 12-inch louvered vent installed in one end wall.

## 2.4 DOORS AND FRAMES

- A. A refrigerator style door of the dimensions shown shall be provided for the enclosure. The door shall be of similar construction to the enclosure. Mounting hardware shall be of stainless steel or of forged brass with chrome plating, Kason Industries No. 1053, or approved equal. Provide neoprene weather-stripping. The door shall be provided with a refrigerator safety lock with pushrod from interior, Kason Industries, No. 56L, cast zinc with chrome plating. Provide lock consisting of a brass, 6-pin E keyway padlock with a shackle that is 3/8 inch in diameter having

a closed clearance of 2-1/4 inches. The lock shall have a control key removable core and shall have one separate replacement core. Provide 4 keys and 1 core removal key.

## 2.5 MISCELLANEOUS ITEMS

- A. Concrete Stainless Steel Anchor Bolts: Minimum 3/8 inch (9 mm). Diameter.
  - 1. Oversized Stainless Steel Plate Washers: Used to prevent localized stressing of the base flange.
- B. Connection of Building Panels:
  - 1. Building Panel Connectors: Stainless steel hex bolts, flat washers, and hex nuts of size as determined by manufacturer's structural analysis, minimum 5/16 inch (8 mm).
  - 2. Permanently fused building assembly yielding a watertight one-piece structure.
- C. Louvers: Metal, as approved by the Architect.
- D. Base Gasket:
  - 1. Soft, closed cell, neoprene foam gasket material.
  - 2. Suitable for exposure to weather conditions at building location.
  - 3. Suitable for exposure to sewage and sewage gases.
  - 4. Thickness: 3/8 inch (9 mm) minimum.
- E. Wall and Roof Gasket:
  - 1. Soft PVC.
  - 2. Suitable for exposure to weather conditions at building location.
  - 3. Suitable for exposure to sewage and sewage gases.
  - 4. Thickness: 1/4 inch (6 mm) minimum.
- F. Code compliant wood or metal blocking to mount electrical and other equipment.

## 2.6 ELECTRIC SERVICE (DELEGATED DESIGN – BY ELECTRICAL ENGINEER LICENSED TO PRACTICE IN ALASKA)

- A. Delegated design – Provide power and lighting as required to meet code required minimum lighting.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Examine supporting foundations for compliance with manufacturer's requirements, including installation tolerances and other conditions affecting performance of supporting members.

- B. Check installed anchor bolts for accuracy. Verify that bearing surfaces are ready to receive the work.
- C. Verify the rough-in of required mechanical and electrical services prior to placement of the structure.

### 3.2 PREPARATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
- C. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions. Clean surfaces thoroughly prior to installation.
- D. Commencement of installation constitutes acceptance of conditions.

### 3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Field Assembly:
  - 1. Flanges between adjacent panels shall be bolted and gasketed.
  - 2. Use washers to avoid localized stresses.
  - 3. Seal exterior edges of adjacent panels with color matched silicon sealant.
- C. Install continuous neoprene gasket between perimeter anchoring flange and where panels rest on supporting structure.
- D. Resin seal cut all drilled edges.
- E. Repair damaged panels.
- F. Place on existing concrete slab.
- G. Anchor securely in place, allowing for required movement, including expansion and contraction.

### 3.4 PROTECTION

- A. Protect installed buildings until completion of project.
- B. Touch-up, repair or replace damaged items before Substantial Completion.

**END OF SECTION 13 3423**

**SECTION 32 3113  
CHAIN LINK FENCE**

**PART 1 - GENERAL**

**1.01 DESCRIPTION**

- A. This item shall consist of furnishing and erecting a chain-link fence according to these specifications and the details shown on the Drawings.

**PART 2 - PRODUCTS**

**2.01 MATERIALS**

- A. Fabric. Chain-link fabric shall meet AASHTO M 181, 9-gage thickness, Type I (zinc-coated steel), Class C or D coating, and 2-inch mesh.
- B. Posts. Line posts, and braces shall be galvanized steel pipe, or equivalent galvanized roll-formed sections, and meet AASHTO M 181, Type I, Grade 1 or Grade 2. The dimensions of the posts, rails, and braces shall be as shown on the Drawings.
- C. Wire Ties and Tension Wires. Wire ties for use in conjunction with a given type of fabric shall be of the same material and coating weight identified with the fabric type. Tension wire shall meet AASHTO M 181, Type I, Class 3 coating.
- D. Miscellaneous Fittings and Hardware. Miscellaneous steel fittings and hardware shall meet AASHTO M 181, Type I, Grade 1 Barbed wire support arms shall withstand a load of 250 pounds applied vertically to the outermost end of the arm.
- E. Marking. Each roll of fabric shall carry a tag showing the kind of base metal, kind of coating, the gage of the wire, the length of fencing in the roll, and the name of the manufacturer. Posts, wire, and other fittings shall be identified as to manufacturer, kind of base metal, and kind of coating.

**PART 3 - EXECUTION**

**3.01 CONSTRUCTION METHODS**

- A. General. The fence shall be constructed according to the details on the Drawings and as specified herein using new materials. The Contractor shall be responsible for establishing the fence alignment as shown on the Drawings. After the fence line has been staked and prior to fence installation, the Contractor shall review the alignment with the Engineer and make required adjustments to avoid conflicts.
- B. Clearing Fence Line. All brush, stumps, logs, and other debris which would interfere with the proper construction of the fence in the required location shall be removed a minimum width of 5 feet on each side of the fence centerline before starting fencing operations.

- C. Installing Posts in Ground. All end posts, corner posts and pull posts shall be driven to a minimum embedment, at the required dimensions and at the spacing shown on the Drawings.

Posts shall be spaced as shown on the Drawings but in no case shall spacing be more than 10 feet. The posts shall be in proper alignment and surrounding ground shall be sloped to drain away from the posts. All posts shall be set plumb and to the required grade and alignment.

Should rock be encountered at a depth less than the planned embedment depth, a hole 2 inches larger than the greatest dimension of the posts shall be drilled to a depth of 12 inches. After the posts are set, the remainder of the drilled hole shall be filled with grout, composed of one part Portland cement and two parts mortar sand. In lieu of drilling, the rock may be excavated to the required embedment depth.

- D. Installing Posts in brackets. All end posts, corner posts and pull posts shall be secured in brackets at the required dimensions and at the spacing shown on the Drawings.
- E. Installing Braces. Horizontal brace rails, with diagonal truss rods and turnbuckles, shall be installed at all terminal posts.
- F. Installing Fabric. The wire fabric shall be firmly attached to the posts and braced in the manner shown on the Drawings. All wire shall be stretched taut and shall be installed to the required elevations. The fence shall generally follow the contour of the ground, with the bottom of the fence fabric no less than 1 inch or more than 4 inches from the ground surface. Grading shall be performed where necessary to provide a neat appearance.

At locations of small natural swales or drainage ditches and where it is not practical to have the fence conform to the general contour of the ground surface, longer posts may be used and multiple strands of barbed wire stretched thereon to span the opening below the fence. The vertical clearance between strands of barbed wire shall be 6 inches or less.

- G. Electrical Grounds. Electrical grounds shall be installed along the fence at intervals not exceeding 500 feet. Electrical grounds shall also be installed where a power line passes over the fence. The ground shall be accomplished with a copper clad rod 8 feet long and a minimum of 5/8 inch diameter driven vertically until the top is 6 inches below the ground surface. A No. 6 solid copper conductor shall be clamped to the rod and to the fence in such a manner that each element of the fence is grounded.

### **3.02 MATERIAL REQUIREMENTS**

AASHTO M 181                      Chain-Link Fence

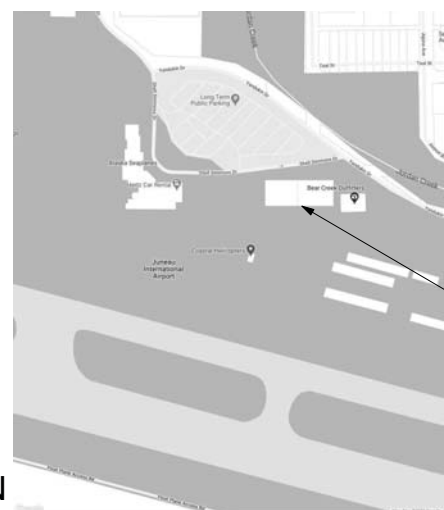
**END OF SECTION 32 3113**



LOCATION MAP



VICINITY MAP



PROJECT SITE

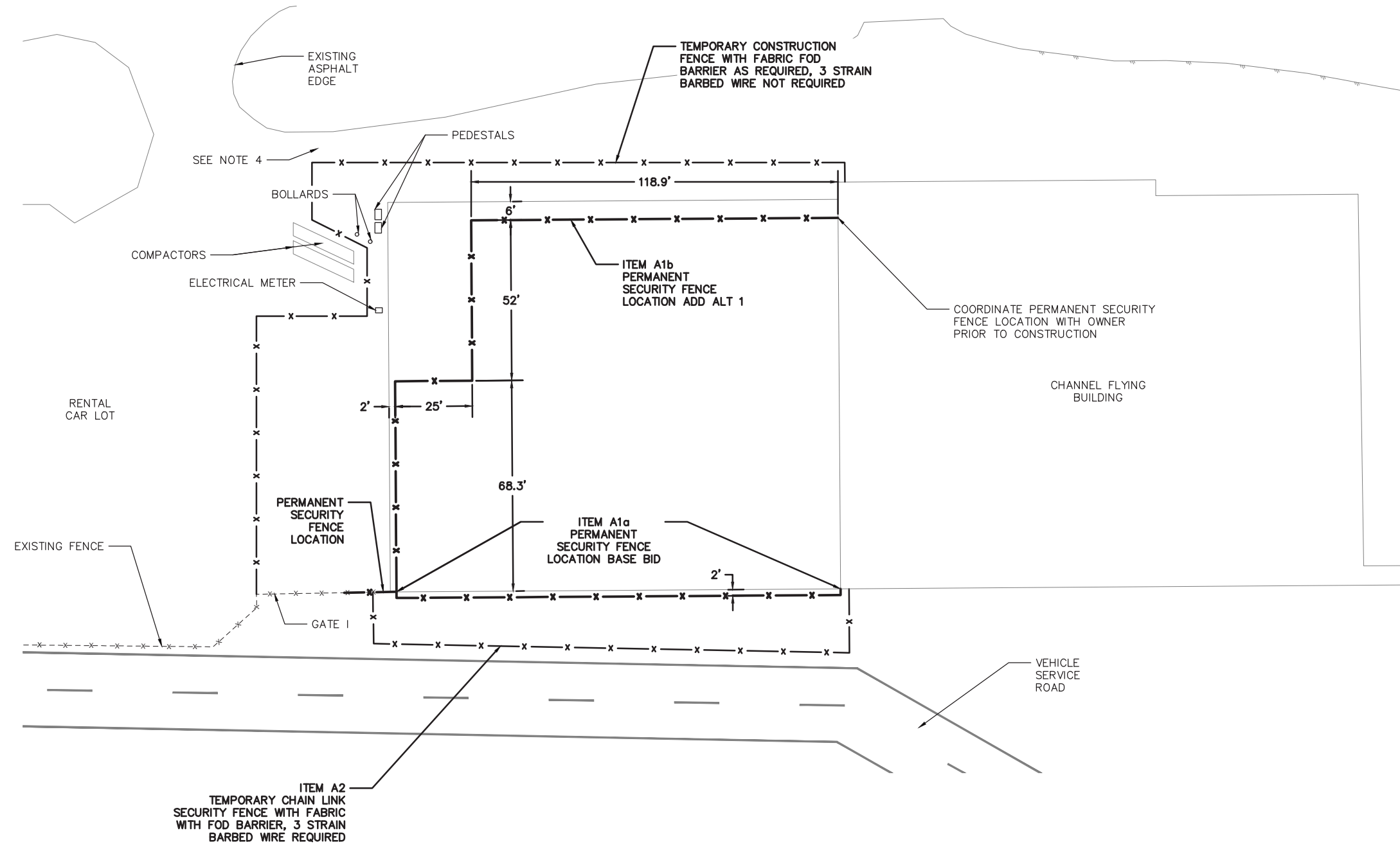
DRAWING INDEX

G0.0	TITLE SHEET
CIVIL	
C1.0	FENCING PLAN
C2.0	FENCING DETAILS
ARCHITECTURAL	
A0.1	CODE ANALYSIS & GENERAL INFO
A0.3	SITE PLAN
A2.1	FLOOR PLAN - DEMOLITION
A2.2	ROOF PLAN - DEMOLITION
A2.3	FLOOR PLAN - NEW
A6.1	ELEVATIONS, WALL SECTIONS AND DETAILS

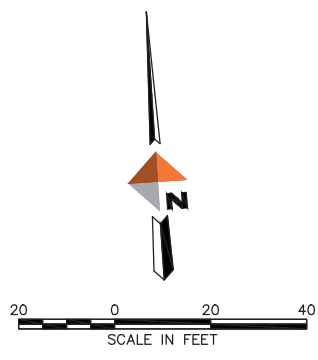
STRUCTURAL

S1.0	DESIGN CRITERIA
S1.1	SPECIAL INSPECTIONS OF SEISMIC RESISTING SYSTEMS
S2.0	EXISTING FLOOR PLAN - DEMOLITION
S2.1	FIRST FLOOR MEZZANINE - DEMOLITION
S2.2	SECOND FLOOR MEZZANINE - DEMOLITION
S2.3	ROOF FRAMING PLAN - DEMOLITION
S3.0	BUILDING SECTION - DEMOLITION
S3.2	EXISTING MEZZANINE FRAMING ELEVATION - DEMOLITION
S3.3	END WALL ELEVATION - DEMOLITION
S3.4	END WALL ELEVATION - DEMOLITION
S3.5	WALL ELEVATION - DEMOLITION
S4.0	FLOOR PLAN
S4.1	ROOF FRAMING PLAN
S5.0	WALL ELEVATION
S6.0	STRUCTURAL DETAILS
S7.0	EXISTING PHOTOGRAPHS

- NOTES:
1. IF ACCEPTED; ADD ALT 1 WILL REPLACE WORK FOR PERMANENT SECURITY FENCE, BASE BID.
  2. MAINTAIN ACCESS TO RENTAL CAR PARKING LOT DURING ALL CONSTRUCTION ACTIVITIES.
  3. PROTECT ELECTRICAL PEDESTALS AND METER.
  4. PROVIDE MIN 10+ FEET DRIVABLE SURFACE FOR THRU TRAFFIC.
  5. TEMPORARY CHAIN LINK SECURITY FENCING TO BE A MINIMUM OF 6' HIGH WITH 3-STRAND BARBED WIRE ON TOP UNTIL PERMANENT SECURITY FENCE IS INSTALLED, AS REQUIRED TO MEET JNU SECURITY REQUIREMENTS. LEGS OF FENCE TO BE HELD DOWN WITH 4X12 OR APPROVED EQUAL.
  6. CONTRACTOR MAY USE GATE I AS APPROVED BY OWNER AND CONTRACTOR'S SECURITY PLAN.
  7. PROTECT ELECTRICAL EQUIPMENT, OWNER'S JOB TRAILER AND TRASH COMPACTORS THROUGHOUT THE WORK.



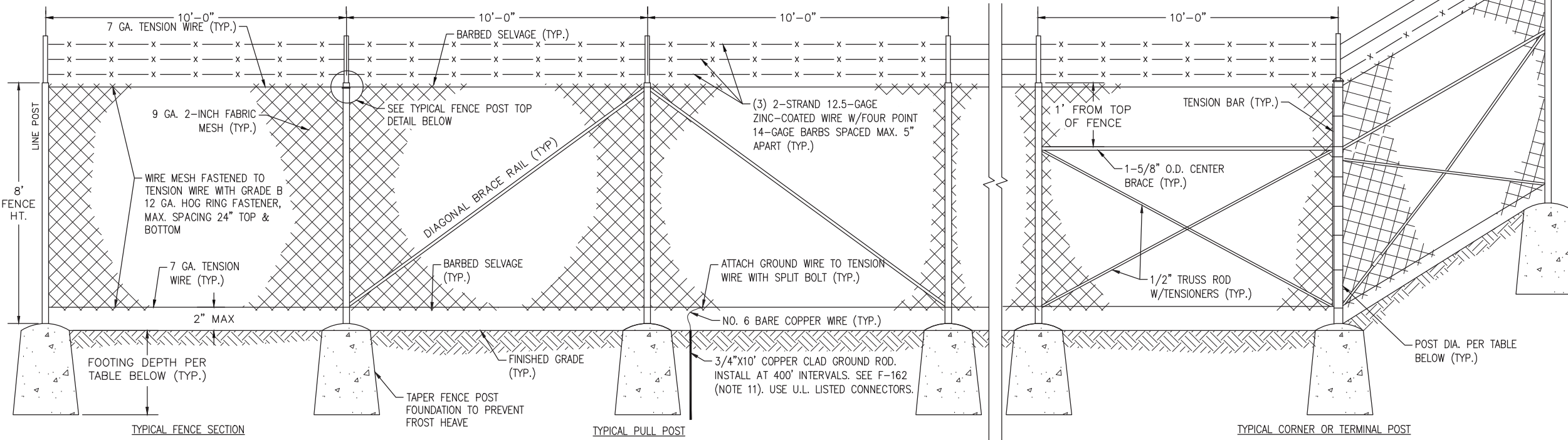
**PLAN - TEMPORARY AND PERMANENT FENCE**  
NTS





NOTE: PULL POST SHALL BE SPACED AT 250' INTERVALS MAX.

FABRIC SHALL BE PLACED ON UNRESTRICTED SIDE OF POSTS.



1 CHAIN LINK FENCE ELEVATION  
NOT TO SCALE

- CHAINLINK FENCE NOTES:**
1. SEE PLAN FOR PERMANENT AND TEMPORARY FENCE LOCATIONS.
  2. POSTS SHALL BE SPACED EQUAL DISTANCES APART. MAXIMUM SPACING SHALL BE 10 FEET UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
  3. POST TOPS SHALL BE SECURELY FASTENED TO POST.
  4. BRACE RAILS AND TRUSS RODS SHALL BE SECURELY FASTENED TO POST WITH BRACE BANDS WITH THREADED TAKE-UP ADAPTER FOR TRUSS RODS.
  5. GROUND WIRE SHALL BE ATTACHED TO FENCE FABRIC BY MEANS OF A SPLIT BOLT.
  6. FABRIC SHALL BE STRETCHED TO A SMOOTH UNIFORM APPEARANCE.
  7. DETAILS SHOWN INDICATE GENERAL DESIGN AND DIMENSIONS MAY VARY AMONG MANUFACTURERS.
  8. LINE POST SHALL BE SET IN CONCRETE UNLESS SHOWN OTHERWISE ON THE PLANS.
  9. FABRIC SHALL BE PLACED ON UNRESTRICTED SIDE OF POSTS.
  10. TOP RAIL MAY BE USED IN LIEU OF TENSION WIRE. ADJUST TOP BRACE LOCATION TO VERTICAL MIDPOINT ON CORNER POST AND NEXT ADJACENT POSTS IF TOP RAIL IS USED.
  11. REF. FAA AC 150/5370-10H.
  12. ADD ALT 1 SHALL USE 6"x6" SQUARE 1/4" GALVANIZED STEEL MOUNTING PLATE WITH (4) 1/2" EXPANSION BOLTS. PROVIDE EXPANSION BOLTS AND HARDENED WASHER MIN. 3" EMBEDMENT (TYP) IN LIEU OF POST FOUNDATION. VERIFY EMBEDMENT LENGTH AND EXISTING CONDITIONS TO SUPPORT REQUIRED DESIGN LOADS AS REQUIRED BY AIRPORT SECURITY REQUIREMENTS.



JNU - SAND STORAGE  
BUILDING DEMOLITION

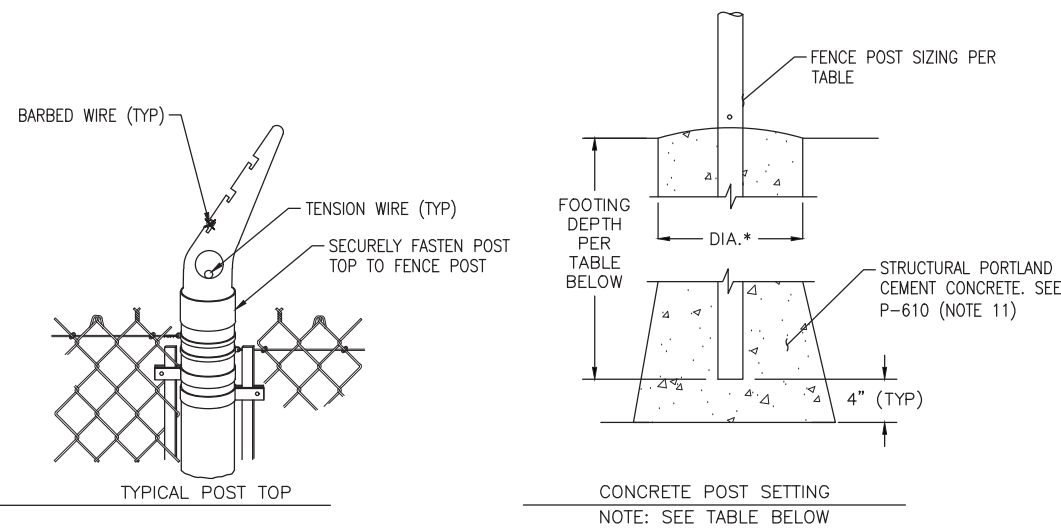
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ECI ARCHITECTURE DESIGN STRATEGY  
3909 ARCTIC BOULEVARD, SUITE 103  
ANCHORAGE, ALASKA 99503 907.561.5543  
PROJECT NO.16-0002.04

CONSTRUCTION DOCUMENTS

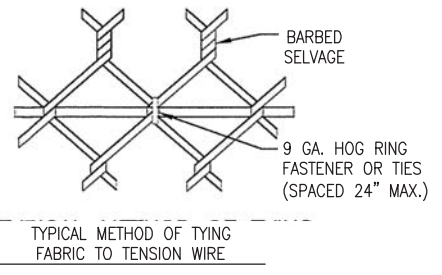


**FENCING DETAILS**  
AUTHOR: JFK  
REVISION: CHECKED: ESS  
ISSUE DATE: 07/29/2020  
OWNER PROJECT NO: BE20-187

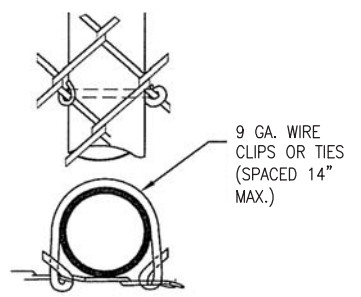


CONCRETE POST SETTING  
NOTE: SEE TABLE BELOW

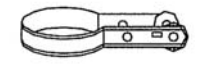
FENCE FABRIC HEIGHT	CHAINLINK FENCE DESIGN PARAMETERS									
	POST TYPE								TOP RAIL OR BRACE RAIL	
	END-CORNER-PULL				LINE-BRACE					
	PIPE		FOOTING		PIPE		FOOTING		PIPE	
	SIZE (IN.)	LB/FT	DEPTH (IN.)	DIA. (IN.)	SIZE (IN.)	LB/FT	DEPTH (IN.)	DIA. (IN.)	SIZE	LB/FT
8'	2 7/8	4.64	54	18	2 3/8	3.12	40	12	1 1/4	1.25
10'	3	4.64	60	18	2 7/8	4.64	40	12	1 1/4	1.25



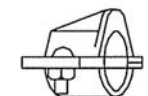
TYPICAL METHOD OF TYING FABRIC TO TENSION WIRE



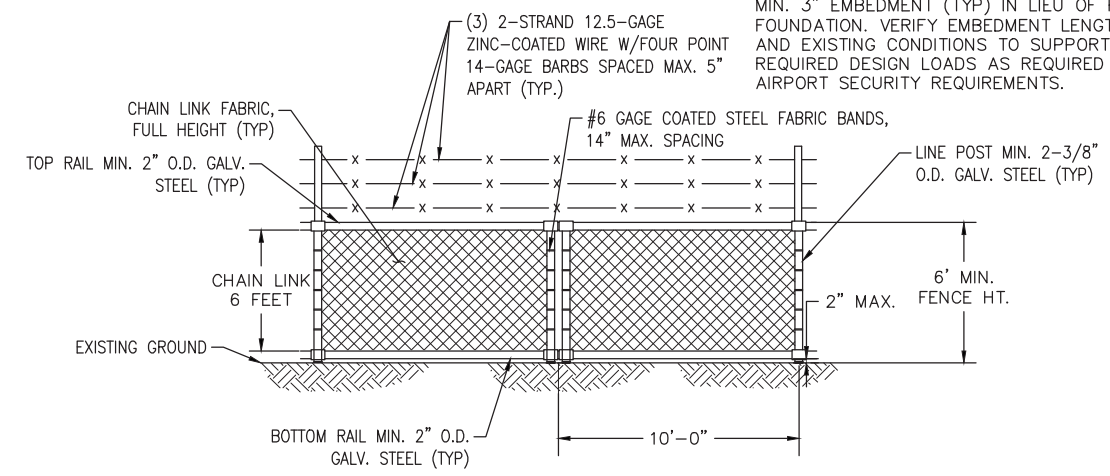
TYPICAL METHOD OF TYING FABRIC TO TUBULAR POSTS



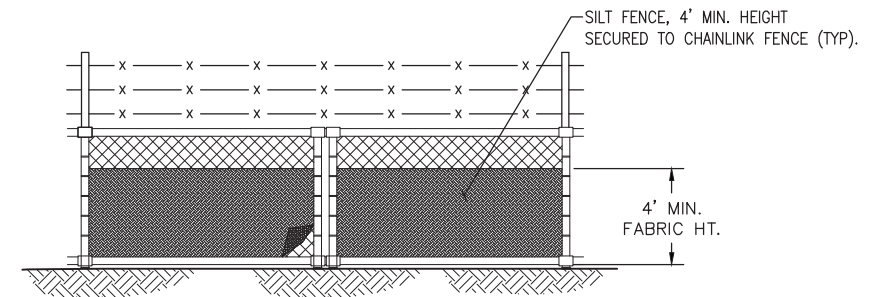
TYPICAL METHOD OF TYING FABRIC TO TUBULAR POSTS



BACK STOP C-2



3 TEMPORARY CHAIN LINK FENCE DETAIL WITH BARBED WIRE  
NOT TO SCALE
















4 FOD BARRIER  
NOT TO SCALE

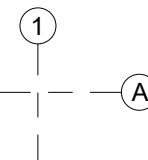

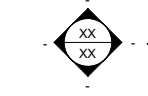
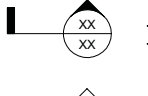
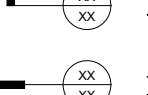

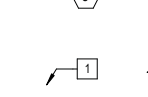
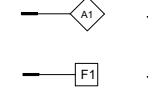




## ABBREVIATIONS

ABV	ABOVE
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
ARCH	ARCHITECTURAL
BD	BOARD
BLDG	BUILDING
BLK	BLOCK
BLW	BELOW
BO	BOTTOM OF
BOF	BOTTOM OF FINISH
CIP	CAST IN PLACE
CF	CUBIC FOOT
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CL	CENTERLINE
CONC	CONCRETE
CONT	CONTINUOUS
CTR	CENTER
DIA	DIAMETER
DIM	DIMENSION
DWG	DRAWING
(E)	EXISTING
EA	EACH
EL	ELEVATION
ELEC	ELECTRICAL
EQ	EQUAL
EQUIP	EQUIPMENT
FAF	FLUID APPLIED FLOORING
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FO	FACE OF
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOS	FACE OF STUD
FRT	FIRE RETARDANT TREATED
FT	FOOT, FEET
FURR	FURRING
GA	GAUGE
GALV	GALVANIZED
GWB	GYPSUM WALL BOARD
GYP	GYPSUM WALL BOARD
HR	HOUR
HT	HEIGHT
ID	INSIDE DIAMETER
INCL	INCLUDE, INCLUDED
INSUL	INSULATION
INT	INTERIOR
LH	LEFT HAND
MAX	MAXIMUM
MFR	MANUFACTURER
MKBD	MARKERBOARD
MIN	MINIMUM
MIR	MIRROR
MTL	METAL
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
OH	OVERHEAD
PERF	PERFORATED
PLAM	PRESSURE TREATED LAMINATE
PLY	PLYWOOD
PT	PAINT
RCP	REFLECTED CEILING PLAN
REBAR/RB	REINFORCING BARS
REF	REFERENCE
REQD	REQUIRED
SECT	SECTION
SCHED	SCHEDULE
SIM	SIMILAR
SPEC	SPECIFICATION
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
TBD	TO BE DETERMINED
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
TOS	TOP OF STEEL
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY CERTIFIED
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
VIF	VERIFY IN FIELD
WD	WOOD

## MATERIALS

	CONCRETE (SECTION)
	EARTH (SECTION)
	FINISH CARPENTRY (SECTION)
	GYPSUM BOARD (SECTION)
	INSULATION, BATT (PLAN & SECTION)
	INSULATION, RIGID (PLAN & SECTION)
	MINERAL WOOD INSULATION (PLAN & SECTION)
	METAL (SECTION)
	FILL (SECTION)
	PLYWOOD (SECTION)
	WOOD, CONTINUOUS (SECTION)
	WOOD, BLOCKING (SECTION)
	STONE (PLAN)

## SYMBOLS

	<b>GRID LINE INDICATION</b>
	<b>ROOM IDENTIFICATION</b> Room name 101 150 SF
	<b>INTERIOR / EXTERIOR ELEVATION</b> DASH INDICATES NO ELEVATION
	<b>BUILDING SECTION</b> SECTION NUMBER SECTION SHEET
	<b>WALL SECTION</b> SECTION NUMBER SECTION SHEET
	<b>DETAIL</b> DETAIL NUMBER DETAIL SHEET
	<b>DOOR NUMBER</b> REFER TO DOOR SCHEDULE
	<b>WINDOW TYPE</b> REFER TO WINDOW SCHEDULE
	<b>KEYNOTE</b> REFER TO NOTES LISTED ON SHEET
	<b>WALL TYPE INDICATOR</b> REFER TO WALL LEGEND
	<b>FLOOR, CEILING, ROOF TYPE INDICATOR</b> REFER TO FLOOR, CEILING, ROOF LEGEND
	<b>WORK POINT</b> (CONTROL or DATUM POINT)

## CODE ANALYSIS

AUTHORITY HAVING JURISDICTION: CITY AND BOROUGH OF JUNEAU (CBJ) ALASKA BUILDING DEPARTMENT

THIS PROJECT IS TO DEMOLISH THE EXISTING JUNEAU AIRPORT SAND STORAGE BUILDING. THE BUILDING SHARES A WALL WITH THE NEIGHBORING HANGAR BUILDING, OWNED BY A PRIVATE COMPANY. THE EXISTING SEPARATION WALL IS NOT FIRE RATED. WHEN THIS PROJECT REMOVES THE SHARED WALL WITH THE JUNEAU SAND STORAGE BUILDING, THE PROJECT WILL REPLACE THE EXISTING WALL WITH A NEW 2 HOUR RATED EXTERIOR WALL TO COMPLY WITH THE IBC SECTION 412.4.1. \*\*\* ANY OTHER EXISTING CONDITIONS AND POSSIBLE CODE DEFICIENCIES IN THE NEIGHBORING BUILDING WILL NOT BE ADDRESSED BY THIS PROJECT. THE SCOPE FOR THE HANGAR TO REMAIN IS THE EXTERIOR WALL AND THE JOINT TO THE EXISTING ROOF AND WALLS. NO ELECTRICAL, PLUMBING OR MECHANICAL WORK WILL BE PERFORMED UNDER THIS CONTRACT.

SOME ELECTRICAL WORK FOR A TEMPORARY BUILDING ON THE AIRPORT PROPERTY IS A DELEGATED DESIGN.

- APPLICABLE CODES
- 2012 INTERNATIONAL BUILDING CODE
  - 2012 INTERNATIONAL FIRE CODE

- PROJECT SUMMARY:
- Building Demolition and Existing Hangar wall reconstruction

- BUILDING SUMMARY:
- EXISTING CHANNEL FLYING BUILDING TO REMAIN
  - 21,800 SF

- SECTION 302 OCCUPANCY CLASSIFICATION:
- S-1

- SECTION 412 AIRCRAFT-RELATED OCCUPANCIES:
- EXTERIOR WALLS WITH IN 30 FEET OF LOT LINE OR PUBLIC WAY = 2 HOUR WALL

- SECTION 503 GENERAL BUILDING HEIGHT AND AREA LIMITATIONS
- 17,500 SF

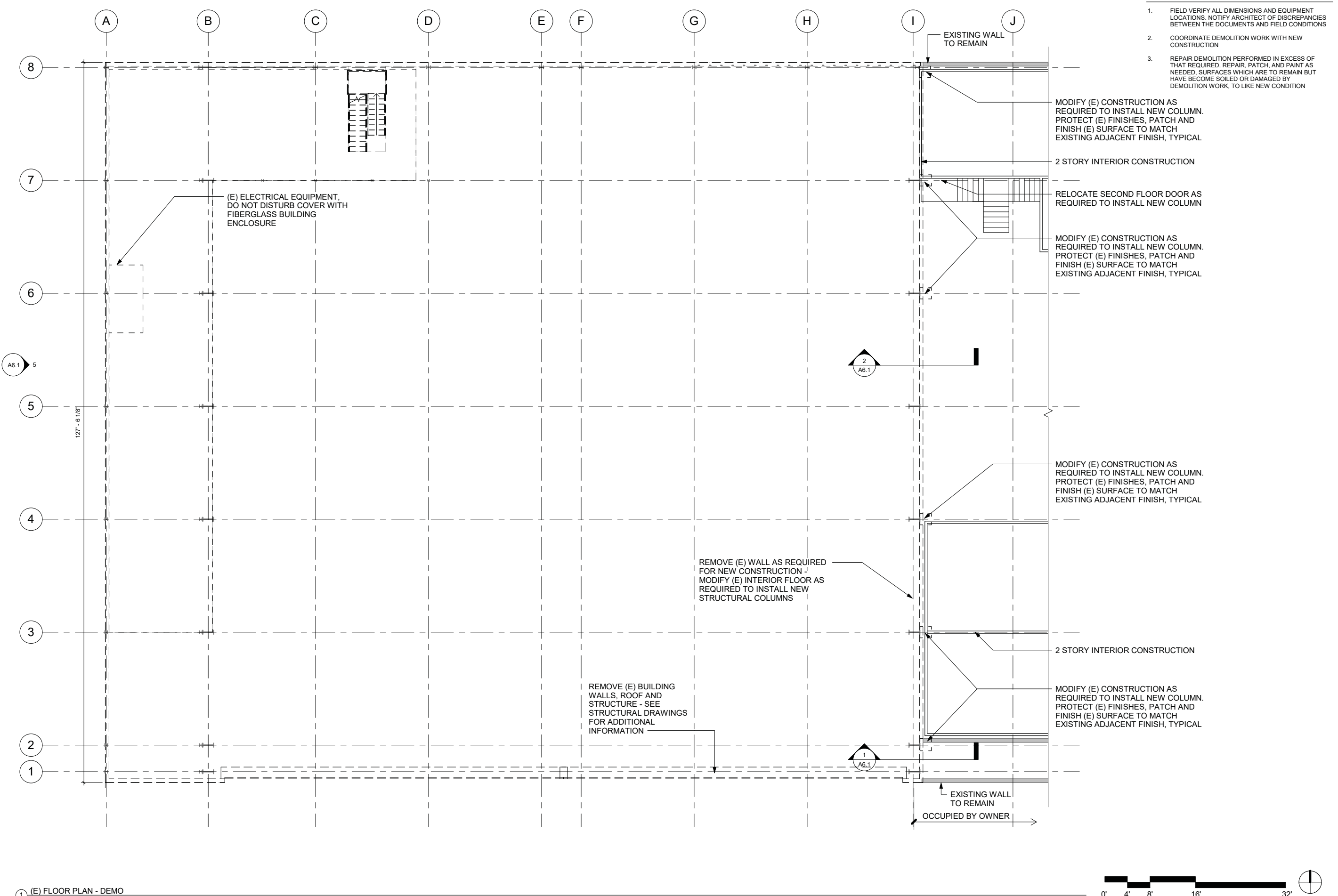
- SECTION 506.2 FRONTAGE INCREASE
- FRONTAGE INCREASE =  $(17,500SF) \cdot (344/600 - .25) / 30 = 3,772 SF$

- SECTION 506.3 SPRINKLER INCREASE
- $17,500SF \cdot 2 = 35,000$
  - TOTAL ALLOWABLE AREA = 56,460 SF

- SECTION 903 AUTOMATIC FIRE SPRINKLERS
- EXISTING







- DEMOLITION GENERAL NOTES**
1. FIELD VERIFY ALL DIMENSIONS AND EQUIPMENT LOCATIONS. NOTIFY ARCHITECT OF DISCREPANCIES BETWEEN THE DOCUMENTS AND FIELD CONDITIONS
  2. COORDINATE DEMOLITION WORK WITH NEW CONSTRUCTION
  3. REPAIR DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED. REPAIR, PATCH, AND PAINT AS NEEDED. SURFACES WHICH ARE TO REMAIN BUT HAVE BECOME SOILED OR DAMAGED BY DEMOLITION WORK, TO LIKE NEW CONDITION

MODIFY (E) CONSTRUCTION AS REQUIRED TO INSTALL NEW COLUMN. PROTECT (E) FINISHES, PATCH AND FINISH (E) SURFACE TO MATCH EXISTING ADJACENT FINISH, TYPICAL

2 STORY INTERIOR CONSTRUCTION

RELOCATE SECOND FLOOR DOOR AS REQUIRED TO INSTALL NEW COLUMN

MODIFY (E) CONSTRUCTION AS REQUIRED TO INSTALL NEW COLUMN. PROTECT (E) FINISHES, PATCH AND FINISH (E) SURFACE TO MATCH EXISTING ADJACENT FINISH, TYPICAL

MODIFY (E) CONSTRUCTION AS REQUIRED TO INSTALL NEW COLUMN. PROTECT (E) FINISHES, PATCH AND FINISH (E) SURFACE TO MATCH EXISTING ADJACENT FINISH, TYPICAL

REMOVE (E) WALL AS REQUIRED FOR NEW CONSTRUCTION  
MODIFY (E) INTERIOR FLOOR AS REQUIRED TO INSTALL NEW STRUCTURAL COLUMNS

REMOVE (E) BUILDING WALLS, ROOF AND STRUCTURE - SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION

MODIFY (E) CONSTRUCTION AS REQUIRED TO INSTALL NEW COLUMN. PROTECT (E) FINISHES, PATCH AND FINISH (E) SURFACE TO MATCH EXISTING ADJACENT FINISH, TYPICAL

1 (E) FLOOR PLAN - DEMO  
1/8" = 1'-0"



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**JNU - SAND STORAGE  
BUILDING DEMOLITION**



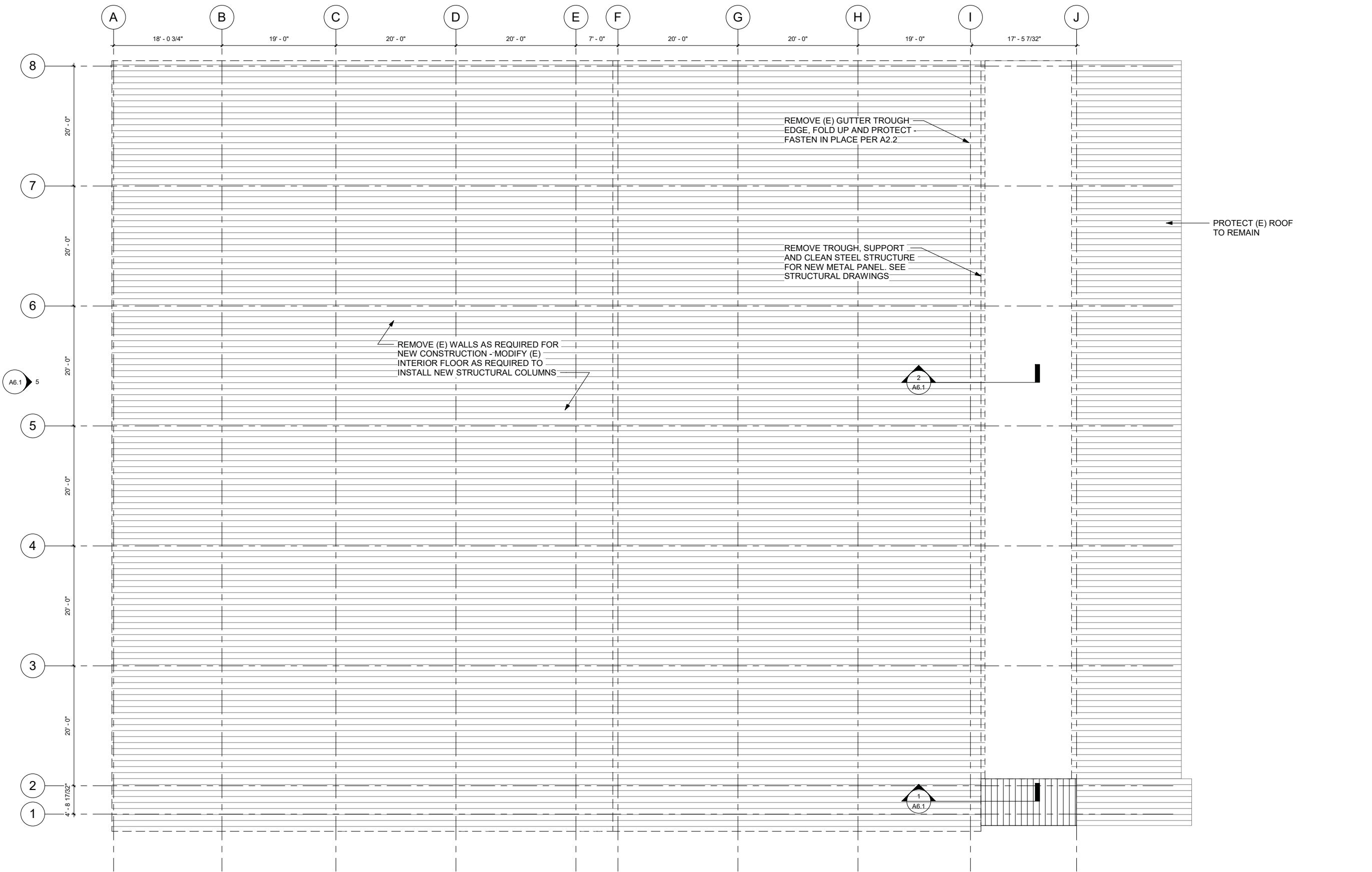
AUTHOR: GR  
REVISION:  
ISSUE DATE: 07/29/2020  
OWNER PROJECT NO.: BE20-187

CHECKED: SC

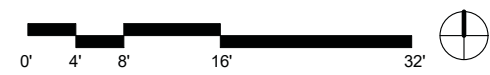
**FLOOR PLAN - DEMOLITION**

**ECI ARCHITECTURE DESIGN STRATEGY**  
3909 ARCTIC BOULEVARD, SUITE 103  
ANCHORAGE, ALASKA 99503 907.561.5543  
PROJECT NO. 16-0002.04

CONSTRUCTION DOCUMENTS

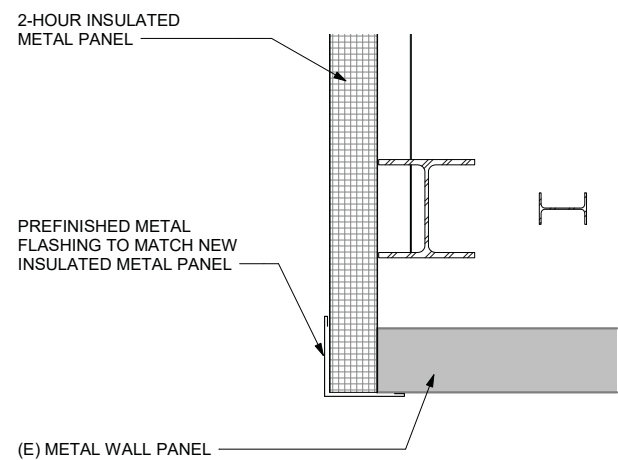


② ROOF PLAN  
1/8" = 1'-0"





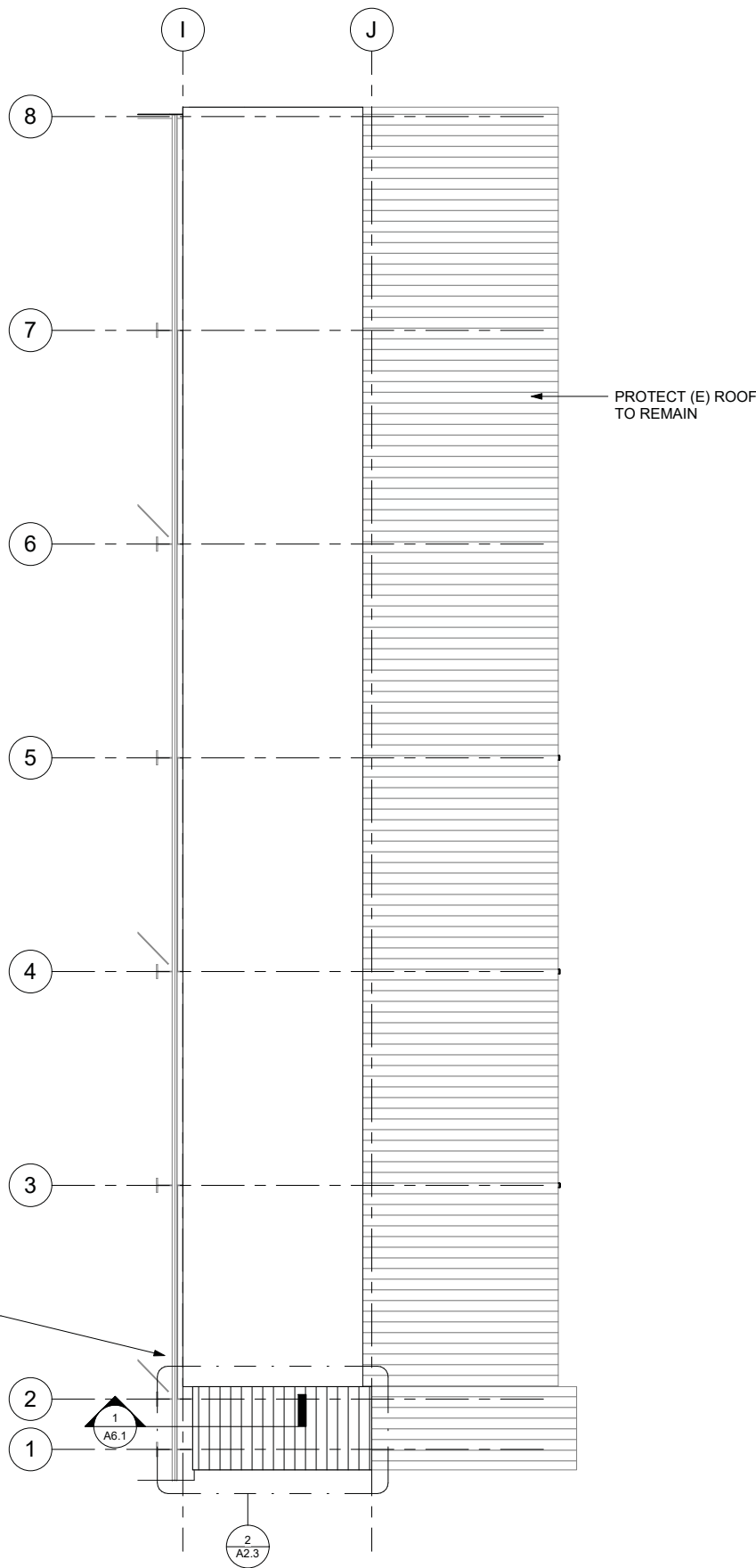
5 PHOTO OF BOTTOM OF EXISTING ROOF TO REMAIN  
NTS



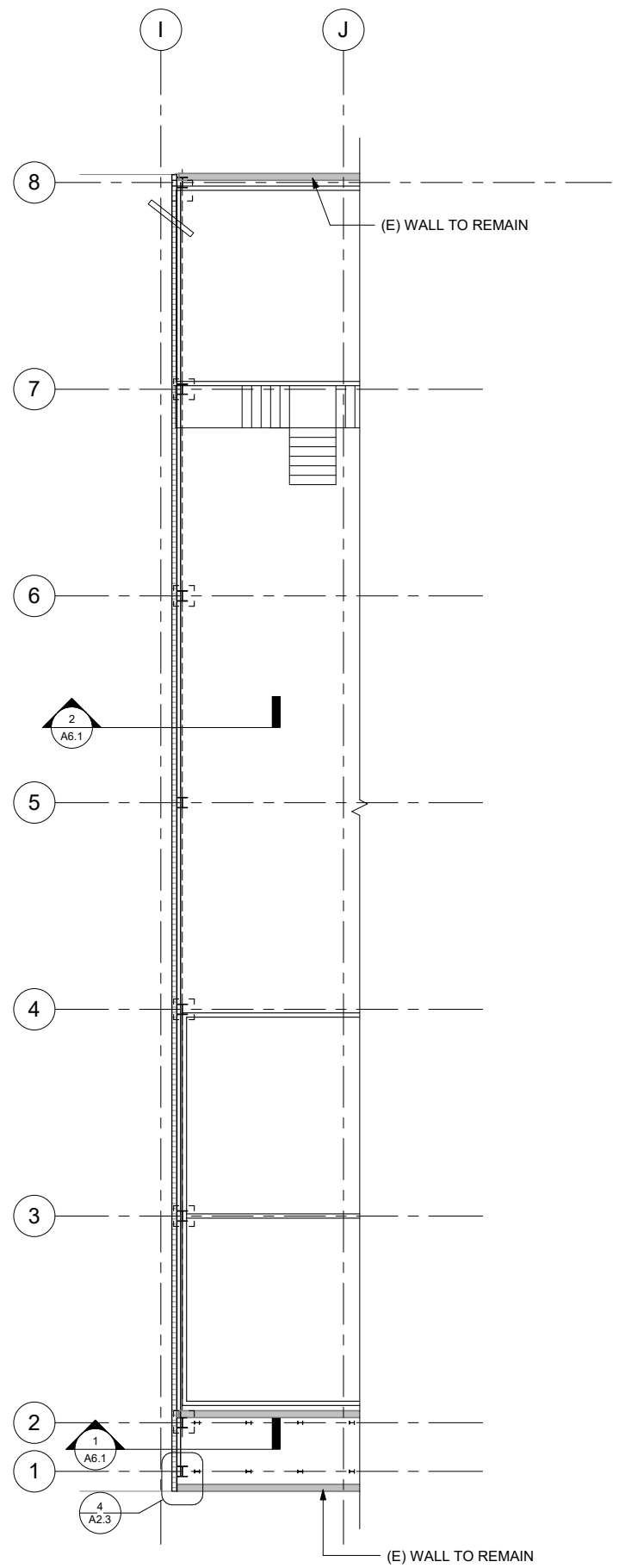
4 TYPICAL CORNER DETAIL  
1" = 1'-0"



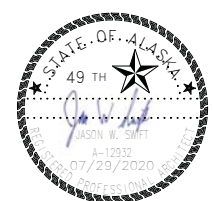
2 EXISTING ROOF PHOTO  
NTS

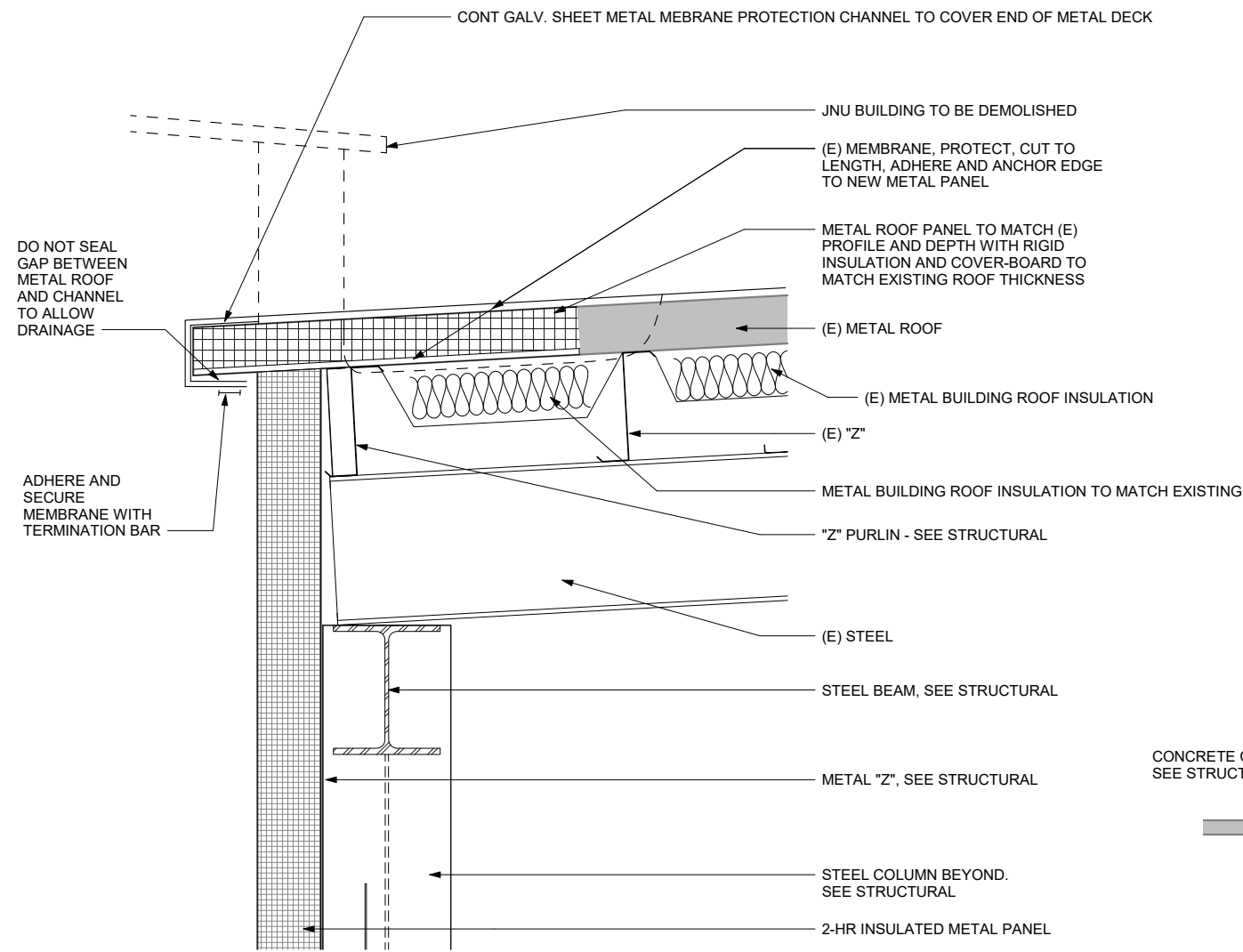


3 ENLARGED ROOF PLAN  
1/8" = 1'-0"

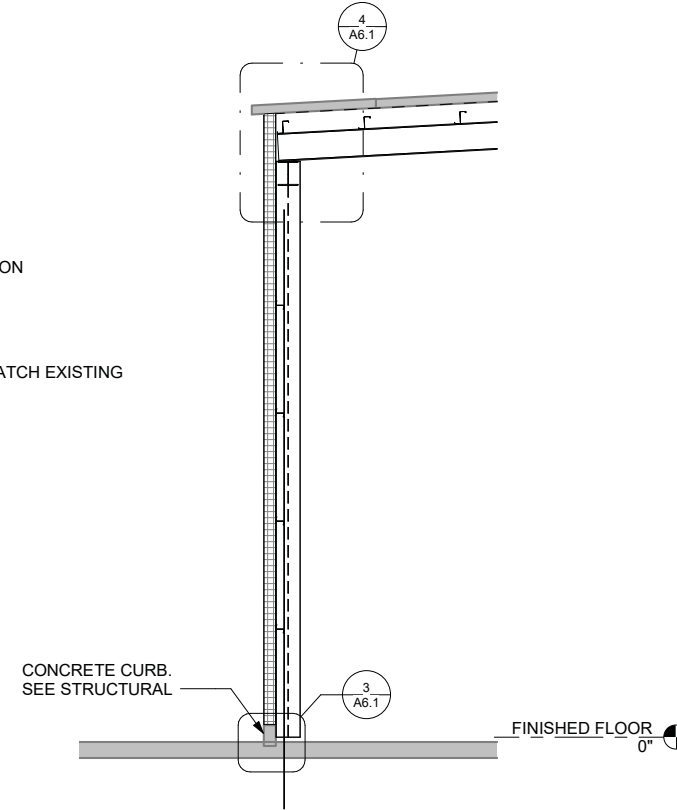


1 FLOOR PLAN  
1/8" = 1'-0"

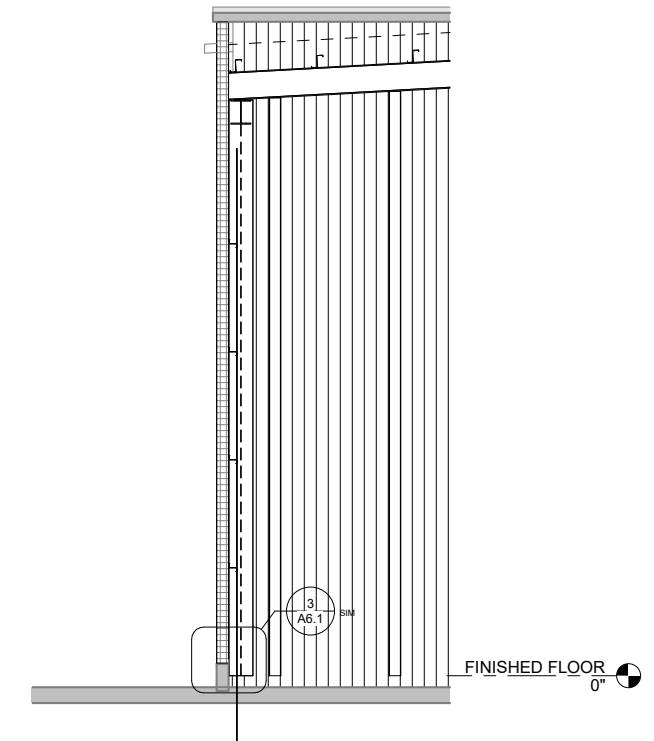




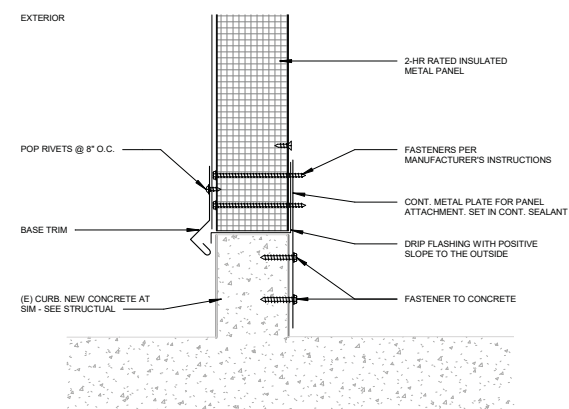
④ ROOF DETAIL  
1 1/2" = 1'-0"



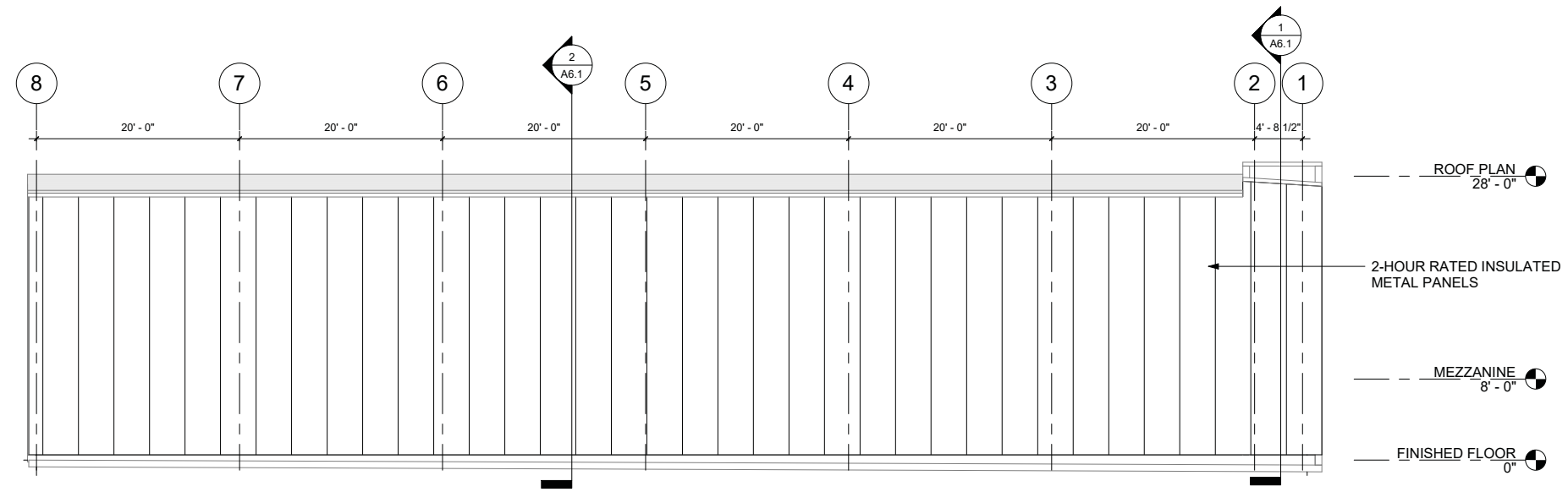
② TYPICAL WALL SECTION  
1/4" = 1'-0"



① WALL SECTION AT DEMO-DOOR POCKET  
1/4" = 1'-0"



③ FLUSHED BASE AT JOINT  
1 1/2" = 1'-0"



⑤ WEST ELEVATION  
1/8" = 1'-0"



ELEVATIONS, WALL SECTIONS AND DETAILS

AUTHOR: GR  
REVISION:  
ISSUE DATE: 07/29/2020  
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CHECKED: Checker

A6.1

FULL SIZE PRINTED ON 22 x 34

JNU - SAND STORAGE  
BUILDING DEMOLITION

CONSTRUCTION DOCUMENTS

ECI ARCHITECTURE DESIGN STRATEGY  
3909 ARCTIC BOULEVARD, SUITE 103  
ANCHORAGE, ALASKA 99503 907.561.5543  
PROJECT NO. 16-0002.04

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STRUCTURAL DESIGN CRITERIA SCHEDULE			
CRITERIA	DESCRIPTION	VALUE	COMMENTS
CODE	IBC 2012		AS AMENDED BY THE STATE OF ALASKA AND CITY & BOROUGH OF JUNEAU
SEISMIC	ANALYSIS PROCEDURE SEISMIC DESIGN CATEGORY RISK CATEGORY SEISMIC IMPORTANCE FACTOR, IE SITE CLASS 0.2S SPECTRAL RESPONSE ACCELERATION, Ss 1.0S SPECTRAL RESPONSE ACCELERATION, S1 0.2S SPECTRAL RESPONSE COEFFICIENT, Sds 1.0S SPECTRAL RESPONSE COEFFICIENT, Sd1  STRUCTURAL SYSTEM	STRENGTH  D IV . D 0.609 0.384 0.533 -	PER ASCE 7-10  STORAGE OF HAZARDOUS MATERIALS FRIM SOIL    ORDINARY MOMENT FRAME
WIND	BASIC WIND SPEED (3 SECOND GUST) RISK CATEGORY EXPOSURE FACTOR INTERNAL PRESSURE COEFFICIENT, GCpi	150 MPH II D 0.55	CBJ WIND SPEED MAP   PARTIALLY ENCLOSED BUILDING
ROOF LIVE LOADS	GROUND SNOW LOAD SNOW LOAD EXPOSURE FACTOR THERMAL FACTOR Ci SNOW IMPORTANCE FACTOR FLAT ROOF SNOW LOAD SNOW DRIFT LOADS  ALL LISTED LOADS USED ARE TO ESTABLISH LOADING FOR NEW STRUCTRE. STRUCTURAL ELEMENTS REMAINING MAY OR MAY NOT BE DESIGNED TO THESE LOADS	70 PSF 0.9 1.2 1.2 63.5 PSF PER ASCE 7-10	PARTIALLY EXPOSED UNHEATED

#### STRUCTURAL NOTES

ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE STRUCTURAL DRAWINGS, THE SPECIFICATIONS AND NOTES LISTED BELOW. MINIMUM PROVISIONS OF THE INTERNATIONAL BUILDING CODE (IBC 2012), AND LOCAL AMENDMENTS SHALL APPLY WHERE DETAILS ARE NOT SHOWN OR DESCRIBED.

#### STRUCTURAL OBSERVATIONS

THE OWNER SHALL EMPLOY THE ENGINEER OF RECORD TO PERFORM STRUCTURAL OBSERVATIONS AS DEFINED IN SECTION 1702 OF THE IBC AT SIGNIFICANT STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY OF SPECIAL INSPECTIONS REQUIRED BY SECTION 1704 OF THE CODE.

#### AS-BUILT DRAWINGS

CONTRACTOR SHALL MAINTAIN A CURRENT SET OF DRAWINGS ON SITE, MODIFIED TO REFLECT ALL DESIGN CHANGES TO THE ORIGINAL DRAWING SET.

PND ENGINEERS INC IS NOT RESPONSIBLE FOR SAFETY PROGRAMS, METHODS, OR PROCEDURES OF OPERATION, OR THE CONSTRUCTION OF THE DESIGN SHOWN ON THESE DRAWINGS. DRAWINGS ARE FOR USE ON THIS PROJECT ONLY AND ARE NOT INTENDED FOR REUSE WITHOUT WRITTEN APPROVAL FROM PND. DRAWINGS ARE ALSO NOT TO BE USED IN ANY MANNER THAT WOULD CONSTITUTE A DETRIMENT DIRECTLY OR INDIRECTLY TO PND.

#### SPECIAL INSPECTIONS

THE FOLLOWING INSPECTIONS ARE REQUIRED. PROVIDE A MINIMUM OF 1 WEEK NOTICE PRIOR TO ANTICIPATED DATE OF INSPECTION. ALL SPECIAL INSPECTIONS SHALL BE PERFORMED BY AN INDIVIDUAL QUALIFIED IN THE ITEMS BEING INSPECTED. SPECIAL INSPECTOR SHALL BE APPROVED IN ADVANCE OF BY THE ENGINEER OF RECORD AND THE CITY AND BOROUGH OF JUNEAU BUIDING OFFICIAL. PROVIDE ACCESS FOR INSPECTOR TO VERIFY CONSTRUCTION:

1. ANCHOR BOLT EMBEDMENT, LOCATION AND CLEARANCES
2. POST INSTALLED EPOXY ANCHOR BOLTS

ALL MATERIALS USED ON THIS PROJECT SHALL CONFORM WITH THE BUY AMERICA ACT.

## ABBREVIATIONS

AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
AISC	AMERICAN INSTITUTE OF STEEL CONSTR.
ALT	ALTERNATE
APA	AMERICAN PLYWOOD ASSOCIATION
ARCH	ARCHITECTURAL
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
AWS	AMERICAN WELDING SOCIETY
BLKG	BLOCKING
BM	BEAM
BCC	BOTTOM OF CONCRETE
BOD	BOTTOM OF DECK
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BTWN	BETWEEN
CIP	CAST IN PLACE (CONCRETE)
CJP	COMPLETE JOINT PENETRATION
CLR	CLEAR
COL	COLUMN
CONN	CONNECTION
CONT	CONTINUOUS
CVN	CHARPY V NOTCH
DIAM	DIAMETER
DWGS	DWGS
(E)	EXISTING
EA	EACH
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATION
EW	EACH WAY
EQ	EQUAL
FC	CONCRETE COMPRESSIVE STRENGTH
FM	MASONRY COMPRESSIVE STRENGTH
FDN	FOUNDATION
FOC	FACE OF CONCRETE
FT	FEET
FTG	FOOTING
GA	GAGE OR GAUGE
GALV	GALVANIZED
GLB	GLUE-LAMINATED BEAM
HI	HIGH
HORIZ	HORIZONTAL
HS	HEADED STUD
HSH	HORIZONTAL SLOTTED HOLE
HSS	HOLLOW STRUCTURAL SECTION
IE	INVERT ELEVATION
INV	INVERT
LO	LOW
LVL	LAMINATED VENEER LUMBER
MAX	MAXIMUM
MECH	MECHANICAL
MF	MOMENT FRAME
MIN	MINIMUM
MT	MAGNETIC PARTICLE STRIP
(N)	NEW
NA	NOT APPLICABLE
NFS	NON FROST SUSCEPTIBLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OWSJ	OPEN WEB STEEL JOIST
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
REINF	REINFORCING
RT	RADIOGRAPHIC TEST
SDI	STEEL DECK INSTITUTE
SJI	STEEL JOIST INSTITUTE
SQ	SQUARE
STD	STANDARD
TBD	TO BE DETERMINED
TEMP	TEMPERATURE
TOC	TOP OF CONCRETE
TOS	TOP OF STEEL
TS	TUBE STEEL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UT	ULTRASONIC
VERT	VERTICAL
W	WIDE FLANGE DESIGNATION
WF	WIDE FLANGE
WP	WORK POINT
WWF	WELDED WIRE FABRIC
W/	WITH

CITY AND BOROUGH OF JUNEAU  
EXISTING SAND & CHEMICAL BUILDING  
DEMOLITION

JULY 29, 2020  
PROGRESS DOCUMENTS



DESIGN CRITERIA

AUTHOR: MH  
REVISION:  
ISSUE DATE: 07.29.2020  
JUNEAU CONTRACT: BE 20-187

S1.0

FULL SIZE PRINTED ON 22 x 34

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PND ENGINEERS, INC. C.A.N. NO.: AEC250

ECI ARCHITECTURE DESIGN STRATEGY

3909 ARCTIC BOULEVARD, SUITE 103  
ANCHORAGE, ALASKA 99503 907.561.5543  
PROJECT NO.1811109



SEISMIC FORCE RESISTING SYSTEMS	
<p>THE FOLLOWING ELEMENTS ARE PART OF THE DESIGNATED SEISMIC FORCE RESISTING SYSTEM AND ARE SUBJECT TO INSPECTION AND TESTING IN ACCORDANCE WITH THE ATTACHED SCHEDULES AND AISC 341.</p> <ul style="list-style-type: none"> <li>STRUCTURAL STEEL MOMENT FRAMES</li> </ul> <p>INSPECTION AND NONDESTRUCTIVE TESTING PERSONNEL:</p> <ul style="list-style-type: none"> <li>WELDING INSPECTIONS AND NDT SHALL BE CONDUCTED BY PERSONNEL QUALIFIED IN ACCORDANCE WITH AWS D1.8 CLAUSE 7.2. ULTRASONIC TECHNICIANS SHALL BE QUALIFIED IN ACCORDANCE WITH AWS D1.8 CLAUSE 7.2.4.</li> </ul> <p>INSPECTION TASKS:</p> <p>INSPECTION TASKS ARE LISTED IN THE ATTACHED TABLES AND IN AISC 341. THE FOLLOWING ENTRIES ARE LISTED TABLES.</p> <ul style="list-style-type: none"> <li>OBSERVE - INSPECTOR SHALL OBSERVE THESE FUNCTIONS ON A RANDOM DAILY BASIS. OPERATIONS NEED NOT BE DELAYED PENDING OBSERVATION.</li> <li>PERFORM - THESE INSPECTIONS SHALL BE PERFORMED PRIOR TO FINAL ACCEPTANCE.</li> <li>DOCUMENT - THE INSPECTOR SHALL PREPARE REPORTS INDICATING THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.</li> </ul> <p>DISTRIBUTION OF REPORTS:</p> <p>REPORTS SHALL BE COMPLETED ON A DAILY BASIS AND DISTRIBUTED ON A WEEKLY BASIS. COPIES OF REPORTS SHALL BE DISTRIBUTED TO THE GENERAL CONTRACTOR, THE ENGINEER OF RECORD AND THE ARCHITECT OF RECORD.</p>	

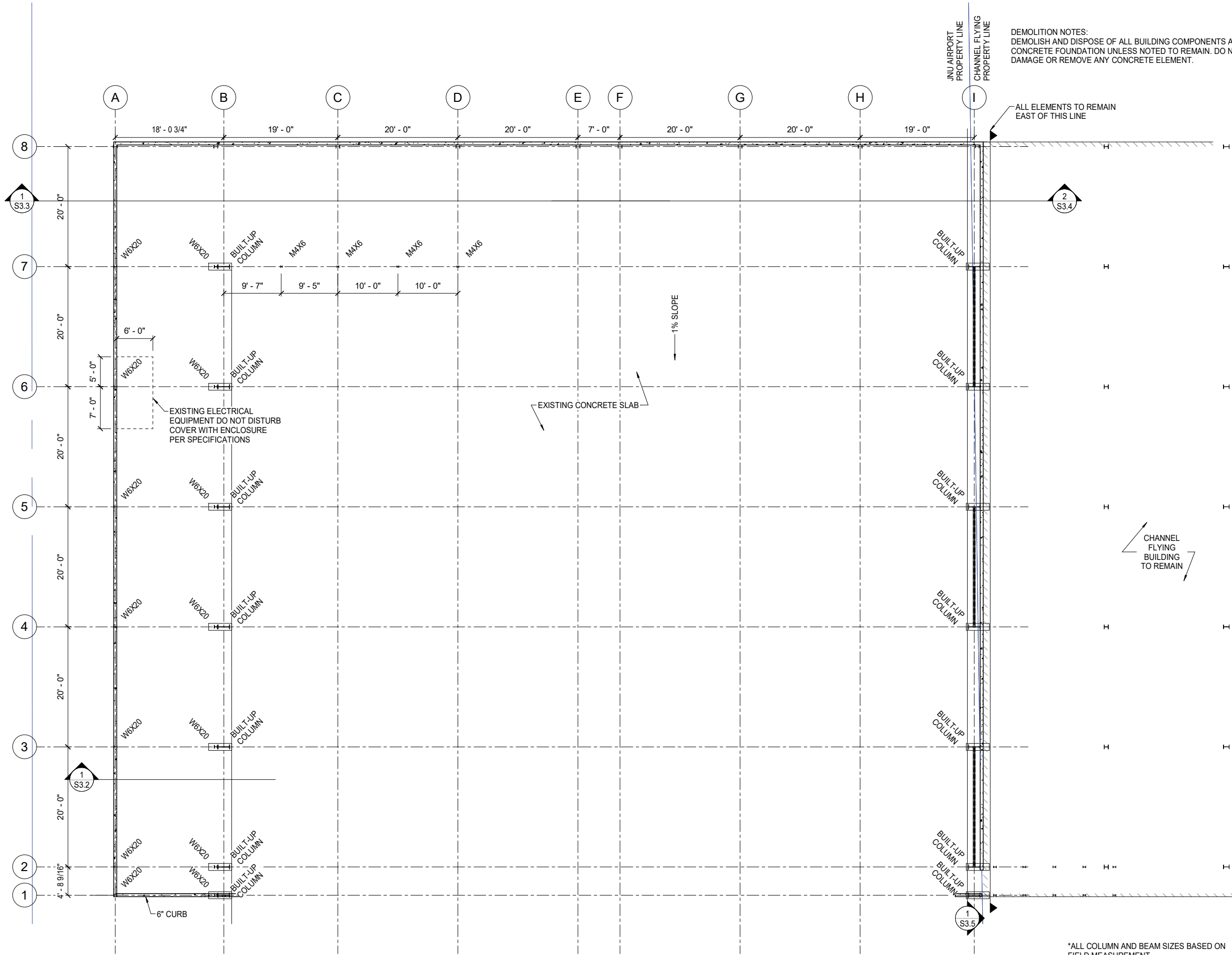
AISC 341 SEISMIC FORCE RESISTING SYSTEMS - OTHER INSPECTIONS	
VERIFICATION AND INSPECTION TASK	QA/D
<b>1 OTHER INSPECTION TASKS</b>	
RBS REQUIREMENTS, IF APPLICABLE -CONTOUR AND FINISH -DIMENSIONAL TOLERANCES	PERFORM, DOCUMENT
PROTECTED ZONE -NO HOLES AND UNAPPROVED ATTACHMENTS MADE BY FABRICATOR OR ERECTOR, AS APPLICABLE.	PERFORM, DOCUMENT

AISC 341- STRUCTURAL STEEL NDS TESTING FOR SEISMIC RESISTANCE		
CATEGORY	DESCRIPTION	NOTES
STEEL CONSTRUCTION NON-DESTRUCTIVE TESTING (NDT)	CJP WELDS	CJP GROOVE WELD NDT (AISC 341-10 J6.2b) ULTRASONIC TESTING (UT) SHALL BE PERFORMED ON 100 PERCENT OF CJP GROOVE WELDS IN MATERIALS 5/16 IN. THICK OR GREATER. MAGNETIC PARTICLE TESTING (MT) SHALL BE PERFORMED ON 25 PERCENT OF ALL BEAM-TO-COLUMN CJP GROOVE WELDS. EXCEPTION: FOR ORDINARY MOMENT FRAMES, UT AND MT OF CJP WELDS ARE ONLY REQUIRED FOR DEMAND CRITICAL WELDS.
(ALL NDT PERFORMED (SHOP OR FIELD) SHALL BE DOCUMENTED INCLUDING PIECE MARK, LOCATION, AND TEST REPORT.)	REDUCED BEAM SECTION (RBS) REPAIR	MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON ANY WELD AND ADJACENT AREA OF THE RBS CUTOUT THAT HAS BEEN REPAIRED BY WELDING, OR ON THE BASE METAL OF THE RBS CUTOUT IF A SHARP NOTCH HAS BEEN REMOVED BY GRINDING (AISC 341-10 J6.2e).
	k-AREA	TEST WEB USING MAGNETIC PARTICLE TESTING WITHIN 3" OF WELDED DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS (AISC 341-10 J6.2a)
	WELD TAB REMOVAL SITES	WELD TAB REMOVAL SITES NDT (AISC 341-10 J6.2f) MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON THE END OF WELDS FROM WHICH THE WELD TABS HAVE BEEN REMOVED.
<p><b>NOTE:</b> SPECIAL INSPECTIONS REQUIRED BY SECTION 1705 ARE NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION (IBC 1704.2.5.2). HOWEVER, NON DESTRUCTIVE TESTING REQUIREMENTS CANNOT BE WAIVED PER AISC 360-10 SECTION N7. THE CONTRACTOR'S FABRICATOR SHALL PERFORM OR ENGAGE A QUALIFIED TESTING AGENCY TO PERFORM REQUIRED TESTING ON THE PREMISES OF THE FABRICATOR. TESTING DOCUMENTATION SHOWING COMPLIANCE SHALL BE SUBMITTED TO THE OWNER UPON COMPLETION OF TESTING.</p>		

AISC 341 - SEISMIC FORCE RESISTING SYSTEMS - VISUAL WELDING INSPECTION			
VERIFICATION AND INSPECTION TASK	QA	VERIFICATION AND INSPECTION TASK	QA
<b>1 VISUAL INSPECTION TASKS PRIOR TO WELDING</b>		<b>VISUAL INSPECTION TASKS DURING WELDING, CONTINUED.</b>	
MATERIAL IDENTIFICATION (TYPE/GRADE)	OBSERVE	CONTROL AND HANDLING OF WELDING MATERIALS	OBSERVE
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)	OBSERVE	-PACKAGING	
-JOINT PREPARATION		-EXPOSURE CONTROL	
-DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)		ENVIRONMENTAL CONDITIONS	OBSERVE
-CLEANLINESS (CONDITION OF STEEL SURFACE)		-WIND SPEED WITHIN LIMITS	
-TACKING (TACK WELD QUALITY AND LOCATION)		-PRECIPITATION AND TEMPERATURE	
-BACKING TYPE AND FIT		WELDING TECHNIQUES	OBSERVE
CONFIGURATION AND FINISH OF ACCESS HOLES	OBSERVE	-INTERPASS AND FINAL CLEANING	
FIT-UP OF FILLET WELDS	OBSERVE	-EACH PASS PROFILE & REQUIREMENTS	
-DIMENSIONS (ALIGNMENT, GAPS AT ROOT)		NO WELDING OVER CRACKED TACKS	OBSERVE
-CLEANLINESS (CONDITION OF STEEL SURFACE)		<b>3 VISUAL INSPECTION TASKS AFTER WELDING</b>	
-TACKING (TACK WELD QUALITY AND LOCATION)		WELDS CLEANED	OBSERVE
<b>2 VISUAL INSPECTION TASKS DURING WELDING</b>		SIZE, LENGTH AND LOCATION OF WELDS	PERFORM
WPS FOLLOWED	OBSERVE	WELDS MEET VISUAL ACCEPTANCE CRITERIA	PERFORM, DOCUMENT
-SETTINGS ON WELDING EQUIPMENT		-CRACK PROHIBITION	
-TRAVEL SPEED		-WELD/BASE-METAL FUSION	
-SELECTED WELDING MATERIALS		-CRATER CROSS SECTION	
-SHIELDING GAS TYPE/FLOW RATE		-WELD PROFILE AND SIZE	
-PREHEAT APPLIED		-UNDERCUT	
-INTERPASS TEMPERATURE MAINTAINED		-POROSITY	
-PROPER POSITION (F,V,H,OH)		PLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS	PERFORM, DOCUMENT
-INTERMIX OF FILLER MATERIALS AVOIDED		BACKING REMOVED, WELD TABS REMOVED AND FINISHED, AND FILLET WELDS ADDED (IF REQUIRED).	PERFORM, DOCUMENT
USE OF QUALIFIED WELDERS	OBSERVE	REPAIR ACTIVITIES	PERFORM, DOCUMENT

AISC 341 SEISMIC FORCE RESISTING SYSTEMS - INSPECTION OF HIGH-STRENGTH BOLTING			
VERIFICATION AND INSPECTION TASK	QA	VERIFICATION AND INSPECTION TASK	QA
<b>1 VISUAL INSPECTION TASKS PRIOR TO BOLTING</b>		<b>2 VISUAL INSPECTION TASKS DURING BOLTING</b>	
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL	OBSERVE	FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED.	OBSERVE
PROPER BOLTING PROCEDURE SELECTED FOR THE JOINT DETAIL	OBSERVE	JOINT BROUGHT TO THE SNUG TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION.	OBSERVE
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS.	OBSERVE	FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING.	OBSERVE
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED FOR FASTENER ASSEMBLIES AND METHODS USED.	OBSERVE	BOLTS ARE PRETENSIONED PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARDS THE FREE EDGES.	OBSERVE
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS.	OBSERVE	<b>3 VISUAL INSPECTION TASKS AFTER BOLTING</b>	
		DOCUMENT ACCEPTED AND REJECTED CONNECTIONS	PERFORM, DOCUMENT





DEMOLITION NOTES:  
 DEMOLISH AND DISPOSE OF ALL BUILDING COMPONENTS ABOVE  
 CONCRETE FOUNDATION UNLESS NOTED TO REMAIN. DO NOT  
 DAMAGE OR REMOVE ANY CONCRETE ELEMENT.

ALL ELEMENTS TO REMAIN  
 EAST OF THIS LINE

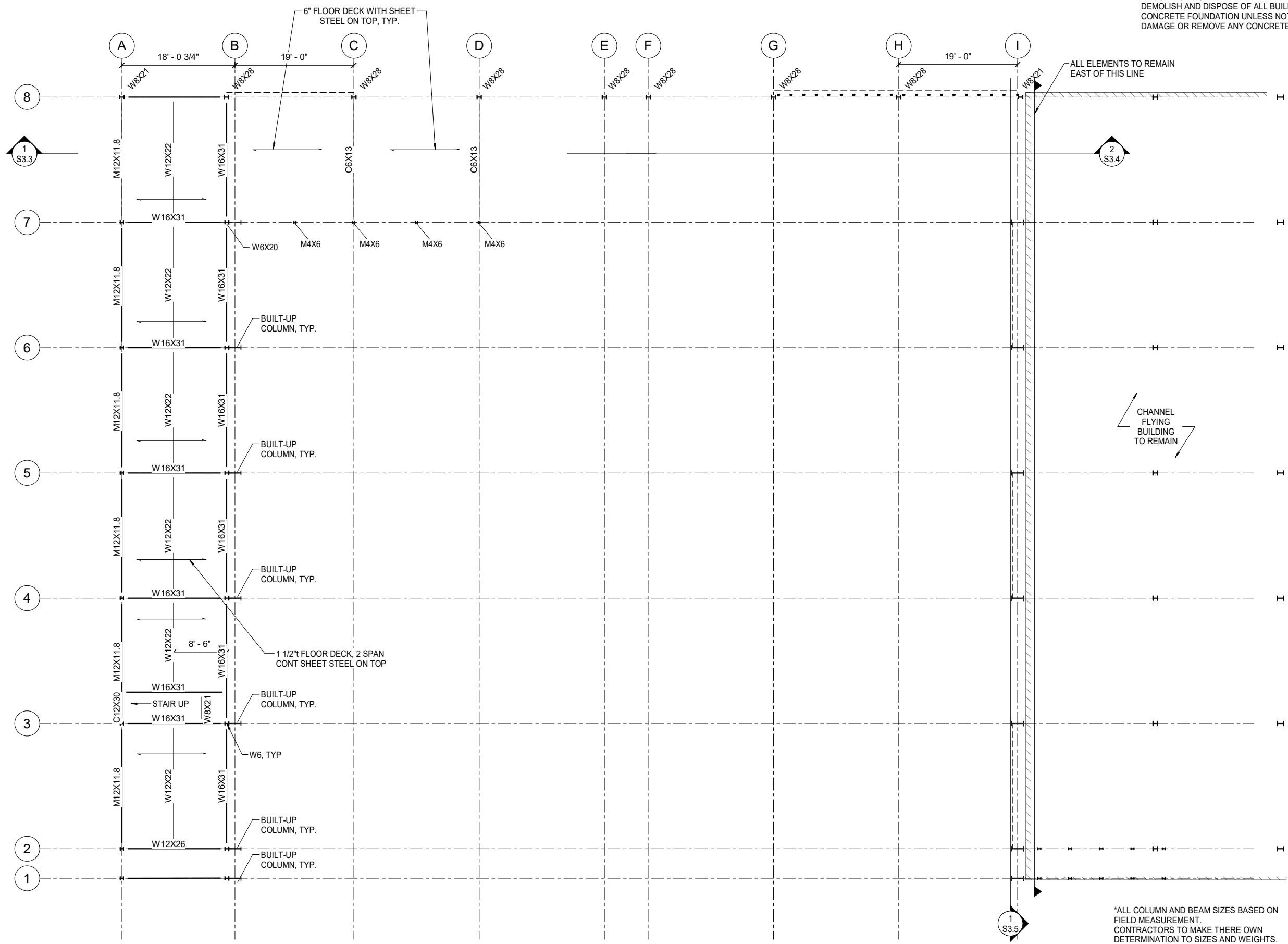
CHANNEL FLYING  
 BUILDING  
 TO REMAIN

\*ALL COLUMN AND BEAM SIZES BASED ON  
 FIELD MEASUREMENT.  
 CONTRACTORS TO MAKE THEIR OWN  
 DETERMINATION TO SIZES AND WEIGHTS.

**1** EXISTING FOUNDATION FRAMING PLAN - DEMOLITION  
 1/8" = 1'-0"  
 SCALE: 0 4' 8' 16'



DEMOLITION NOTES:  
 DEMOLISH AND DISPOSE OF ALL BUILDING COMPONENTS ABOVE  
 CONCRETE FOUNDATION UNLESS NOTED TO REMAIN. DO NOT  
 DAMAGE OR REMOVE ANY CONCRETE ELEMENT.

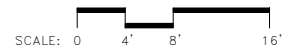


CHANNEL  
 FLYING  
 BUILDING  
 TO REMAIN

\*ALL COLUMN AND BEAM SIZES BASED ON  
 FIELD MEASUREMENT.  
 CONTRACTORS TO MAKE THEIR OWN  
 DETERMINATION TO SIZES AND WEIGHTS.

**1** FIRST FLOOR MEZZANINE FRAMING PLAN - DEMOLITION

1/8" = 1'-0"

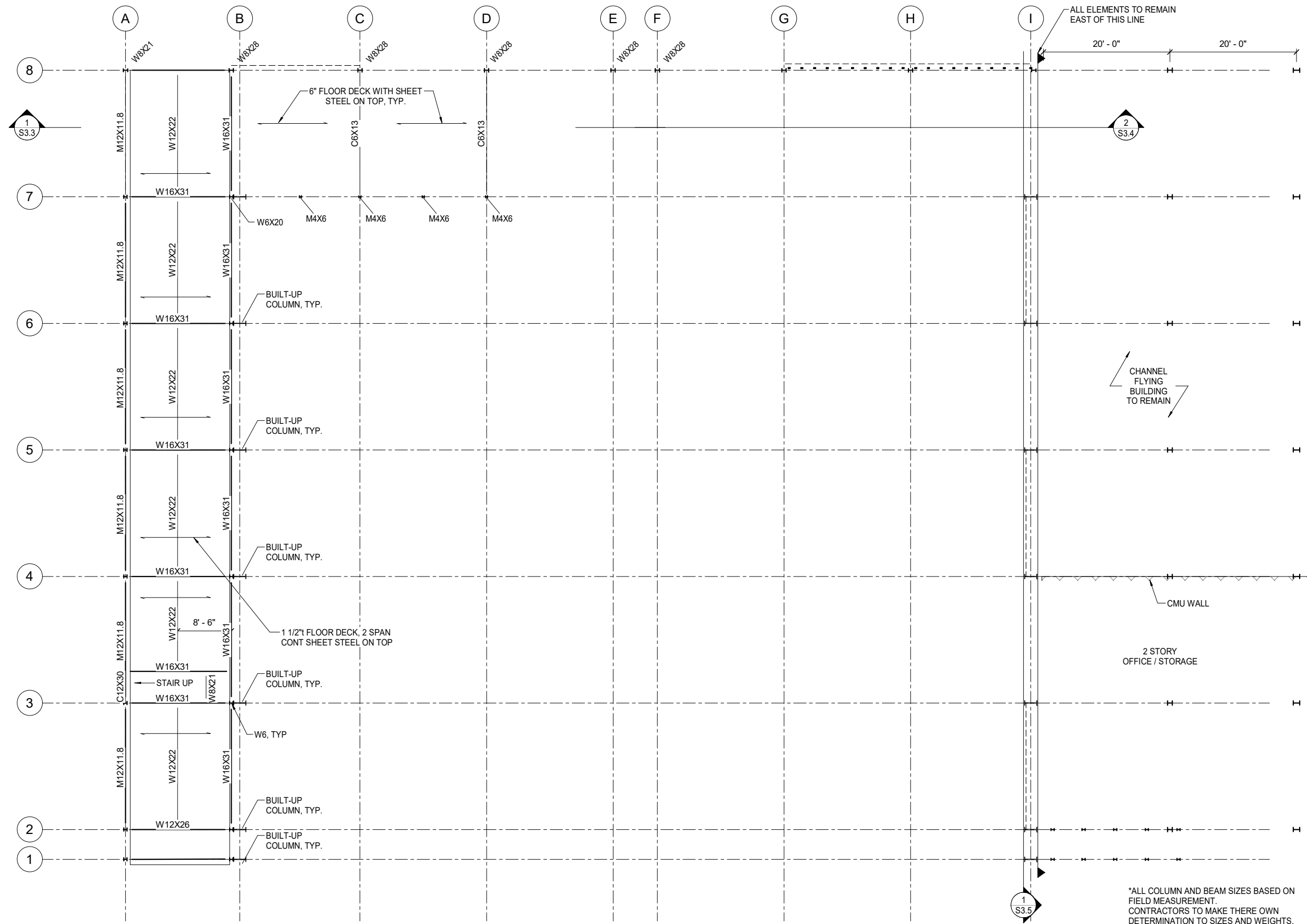


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 PROJECT NO. 181109

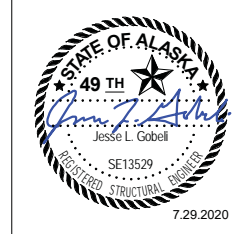
**CITY AND BOROUGH OF JUNEAU  
 EXISTING SAND & CHEMICAL BUILDING  
 DEMOLITION**  
 JULY 29, 2020  
 PROGRESS DOCUMENTS



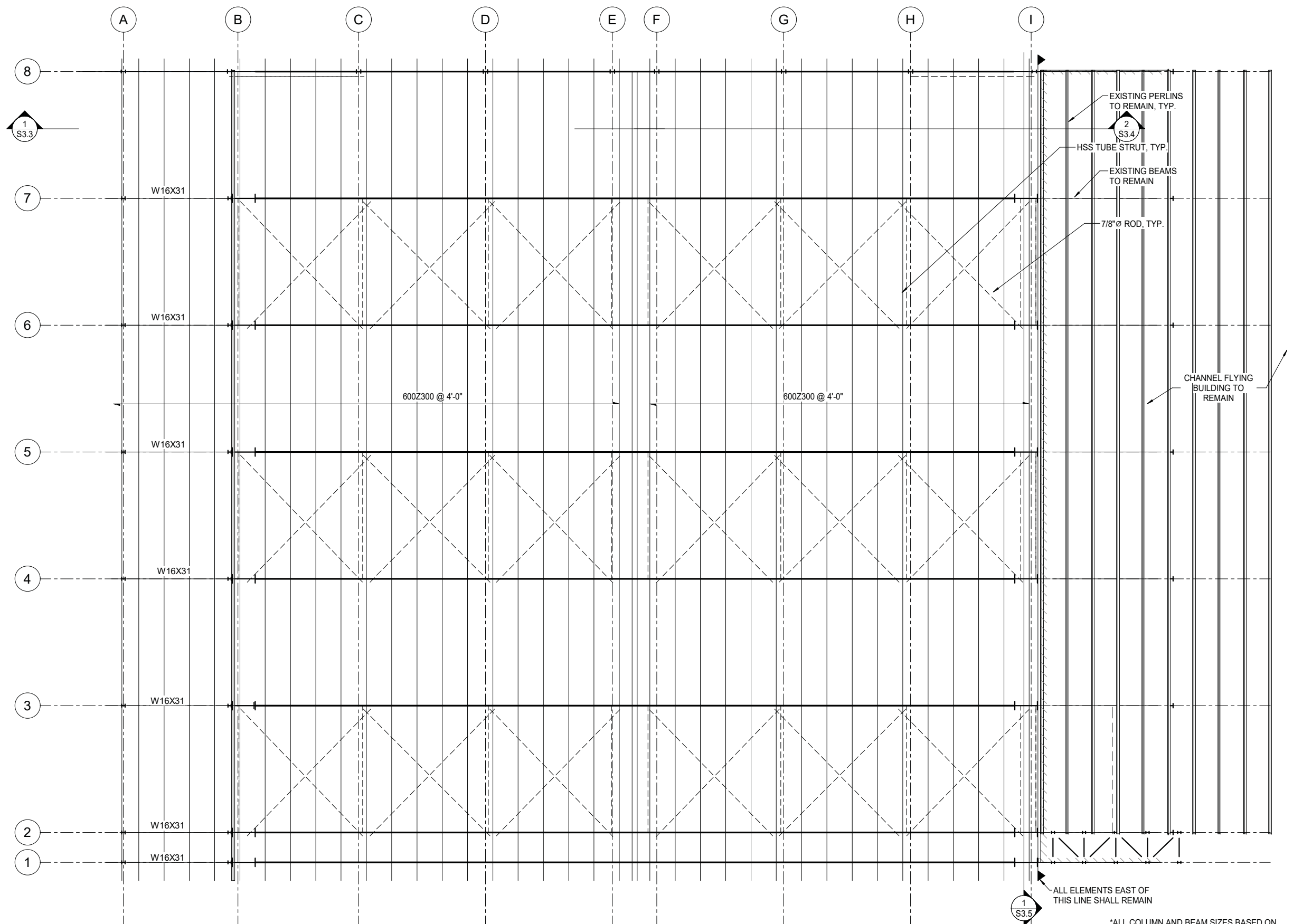
**FIRST FLOOR MEZZANINE - DEMOLITION**  
 AUTHOR: MH CHECKED: JG  
 REVISION:  
 ISSUE DATE: 07.29.2020  
 JUNEAU CONTRACT: BE 20-187



**1 SECOND FLOOR MEZZANINE FRAMING PLAN - DEMOLITION**  
 1/8" = 1'-0"  
 SCALE: 0 4' 8' 16'



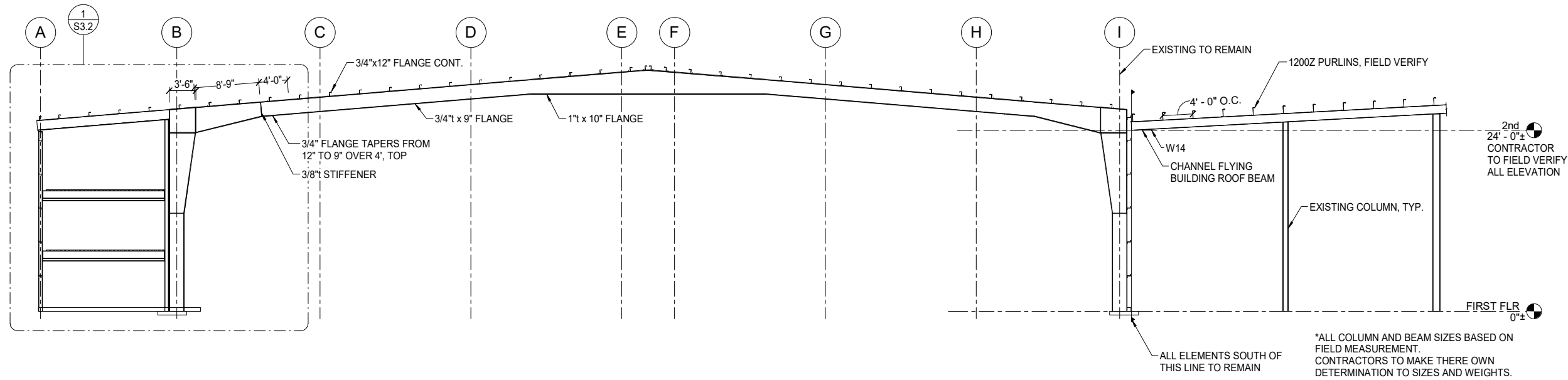
\*ALL COLUMN AND BEAM SIZES BASED ON FIELD MEASUREMENT. CONTRACTORS TO MAKE THEIR OWN DETERMINATION TO SIZES AND WEIGHTS.



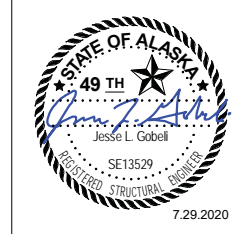
**1** EXISTING ROOF FRAMING PLAN - DEMOLITION  
 1/8" = 1'-0"  
 SCALE: 0 4' 8' 16'

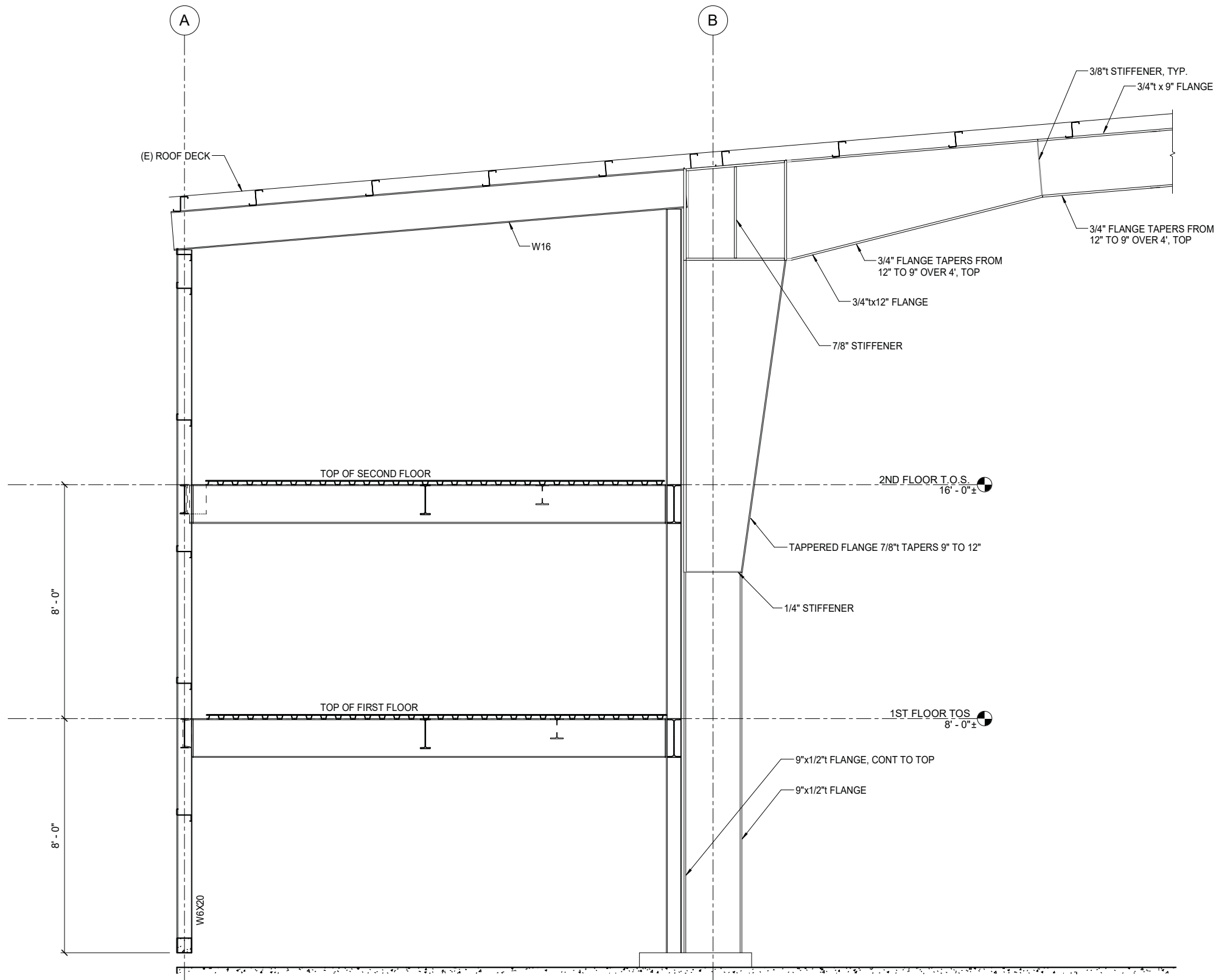
\*ALL COLUMN AND BEAM SIZES BASED ON FIELD MEASUREMENT. CONTRACTORS TO MAKE THEIR OWN DETERMINATION TO SIZES AND WEIGHTS.





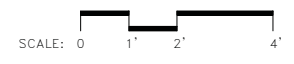
**1** EXISTING BUILDING SECTION - DEMOLITION  
 1/8" = 1'-0"  
 SCALE: 0 4' 8' 16'





**1** EXISTING MEZZANINE FRAMING ELEVATION

1/2" = 1'-0"

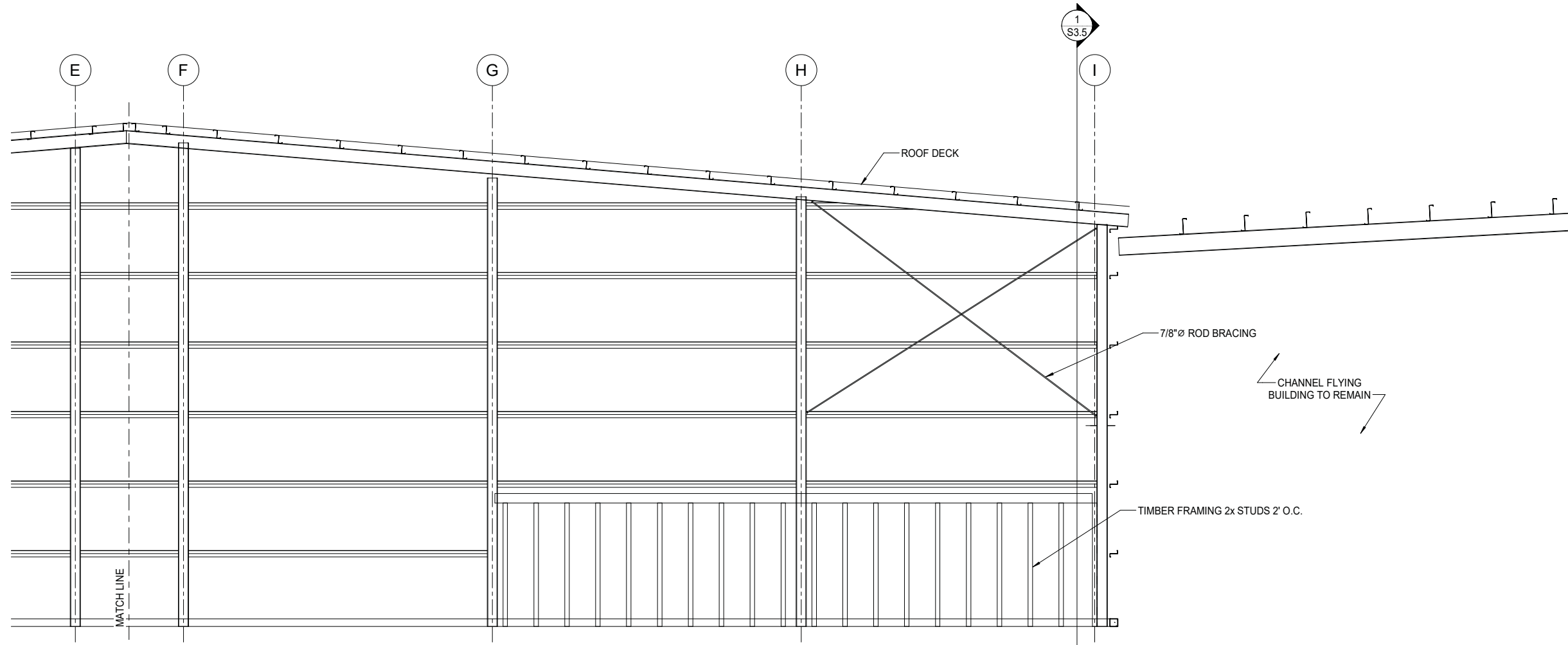


\*ALL COLUMN AND BEAM SIZES BASED ON FIELD MEASUREMENT. CONTRACTORS TO MAKE THEIR OWN DETERMINATION TO SIZES AND WEIGHTS.







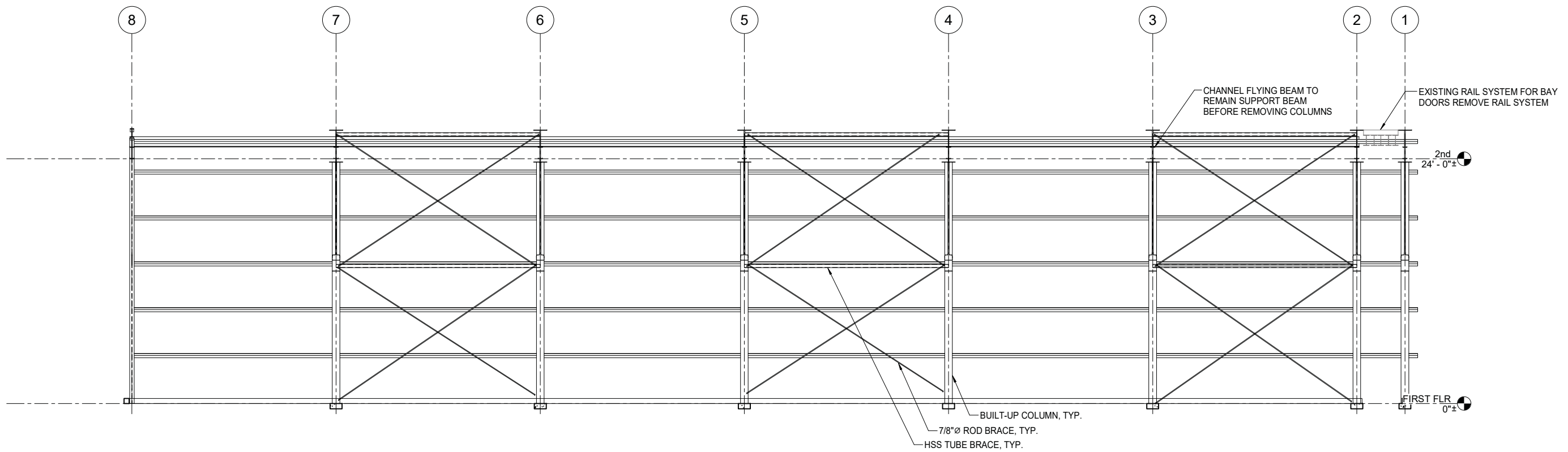


**2** EXISTING END WALL ELEVATION - DEMOLITION  
 1/4" = 1'-0"



\*ALL COLUMN AND BEAM SIZES BASED ON FIELD MEASUREMENT. CONTRACTORS TO MAKE THERE OWN DETERMINATION TO SIZES AND WEIGHTS.





**1** EXISTING EAST WALL ELEVATION - DEMOLITION  
3/16" = 1'-0"

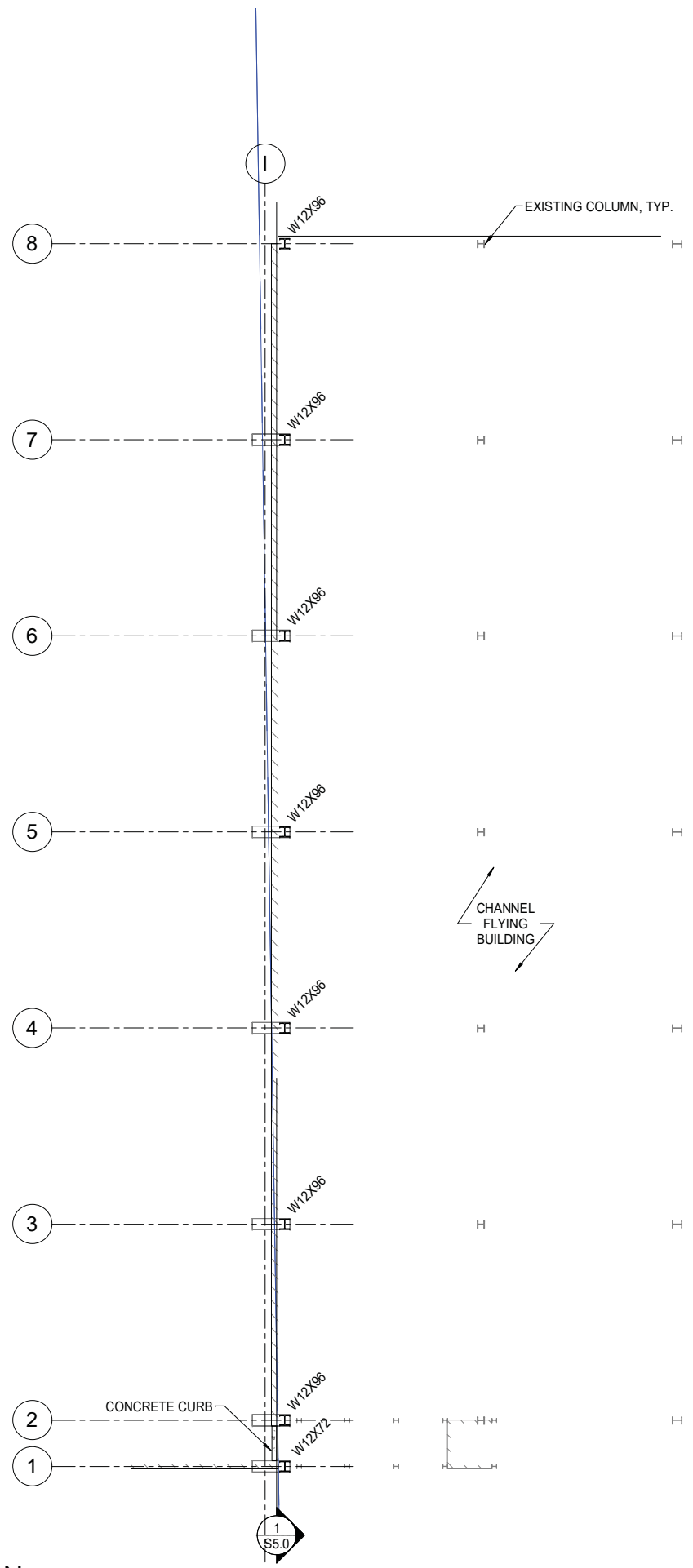


\*ALL COLUMN AND BEAM SIZES BASED ON FIELD MEASUREMENT. CONTRACTORS TO MAKE THEIR OWN DETERMINATION TO SIZES AND WEIGHTS.



**1 NEW WALL PLAN**

1/8" = 1'-0"  
SCALE: 0 4' 8' 16'



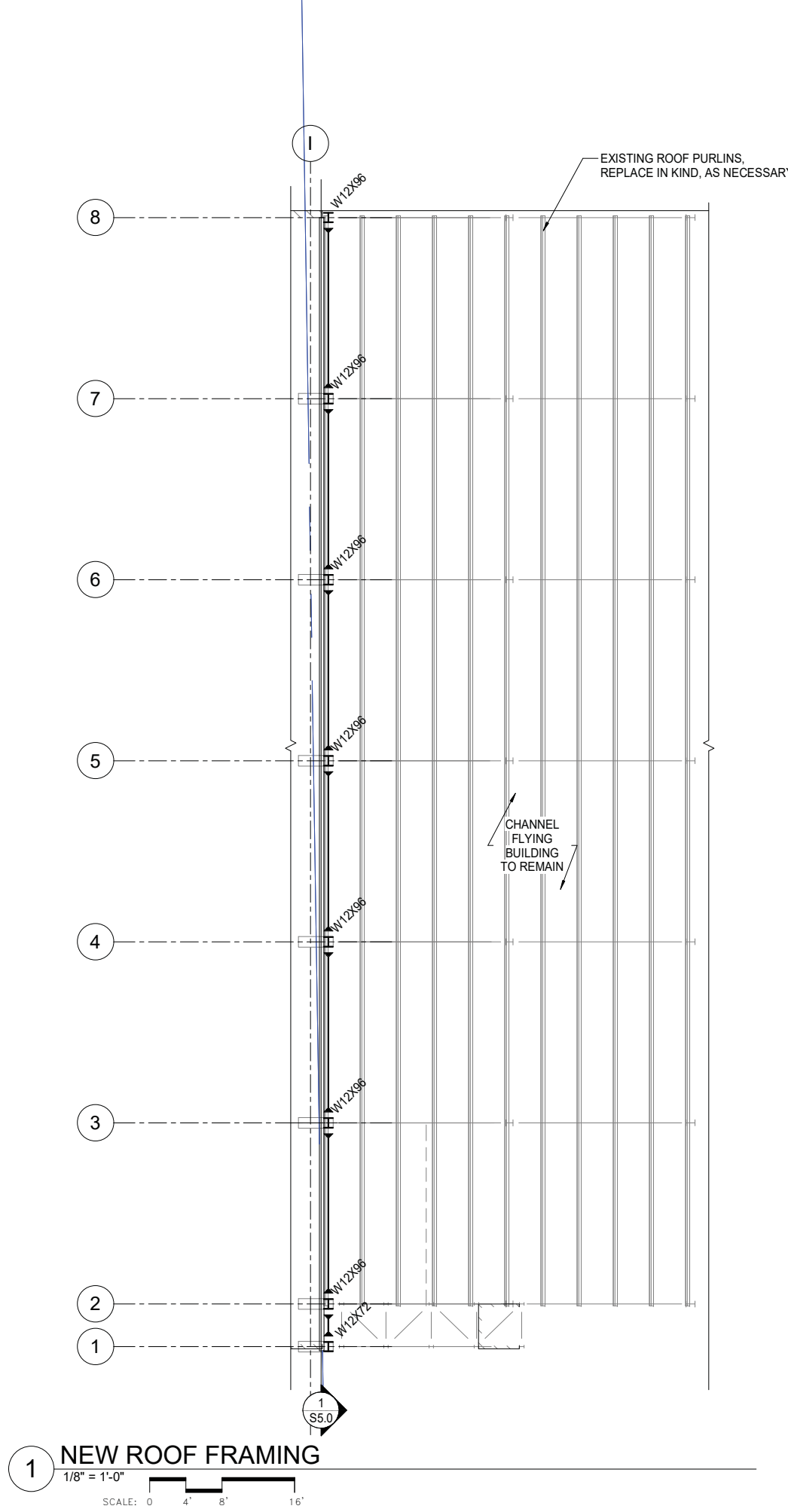
**FLOOR PLAN**

AUTHOR: MH  
REVISION:  
ISSUE DATE: 07.29.2020  
CHECKED: JG  
JUNEAU CONTRACT: BE 20-187

**CITY AND BOROUGH OF JUNEAU  
EXISTING SAND & CHEMICAL BUILDING  
DEMOLITION**

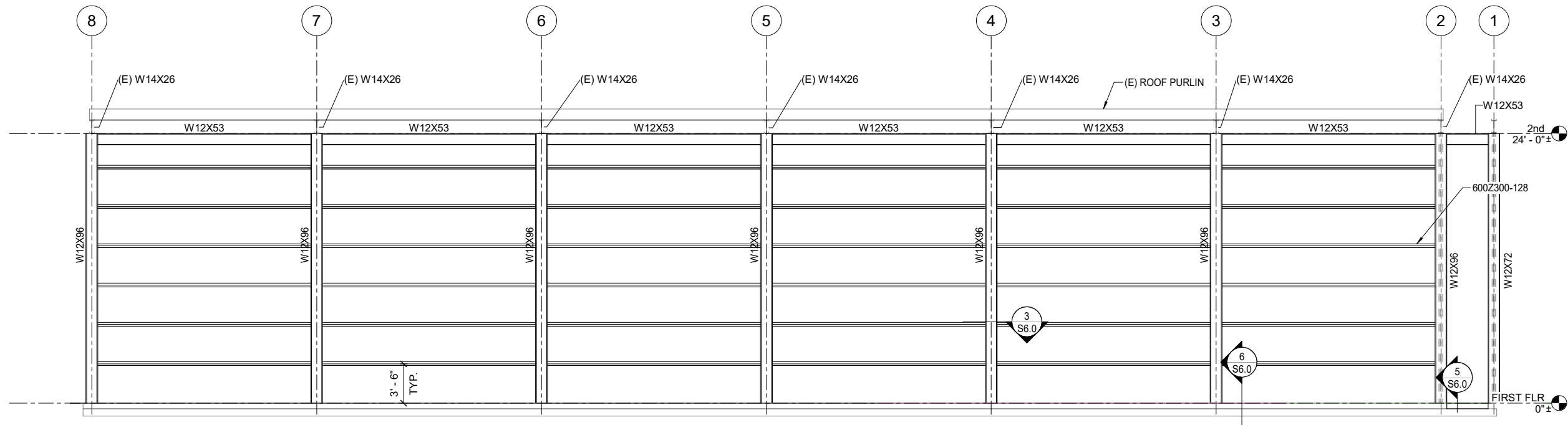
JULY 29, 2020  
PROGRESS DOCUMENTS





**1** NEW ROOF FRAMING  
 1/8" = 1'-0"  
 SCALE: 0 4' 8' 16'

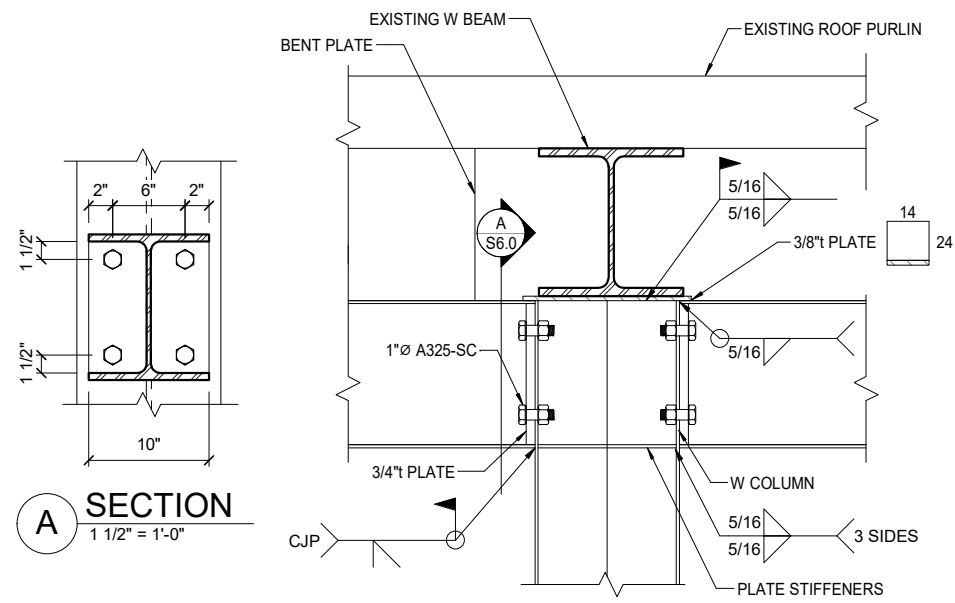




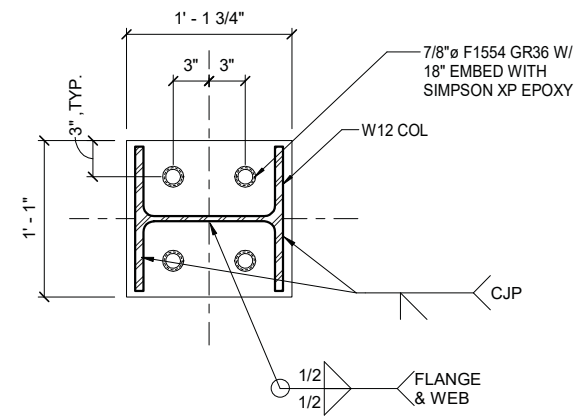
**1** NEW WALL ELEVATION  
3/16" = 1'-0"



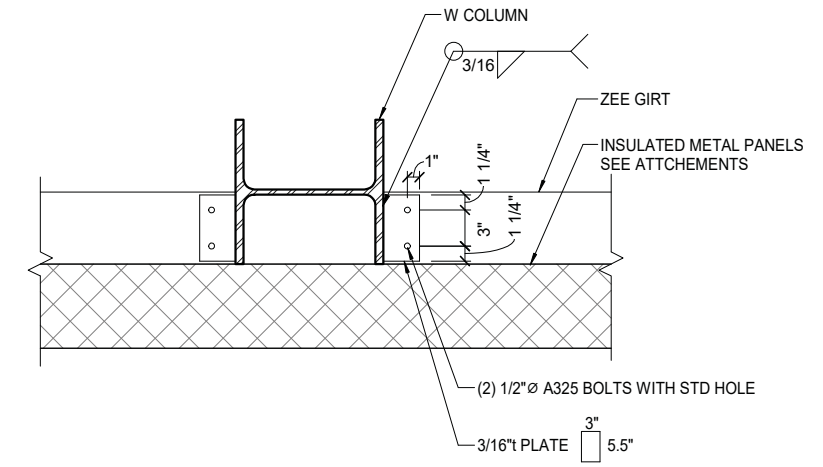
**WALL ELEVATION**  
 AUTHOR: MH  
 REVISION:  
 ISSUE DATE: 07.29.2020  
 CHECKED: JG  
 JUNEAU CONTRACT: BE 20-187



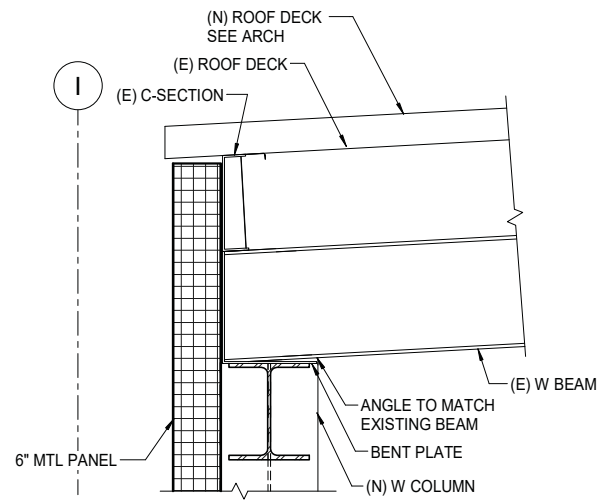
**1** TYPICAL BEAM TO COLUMN CONNECTION  
1 1/2" = 1'-0"



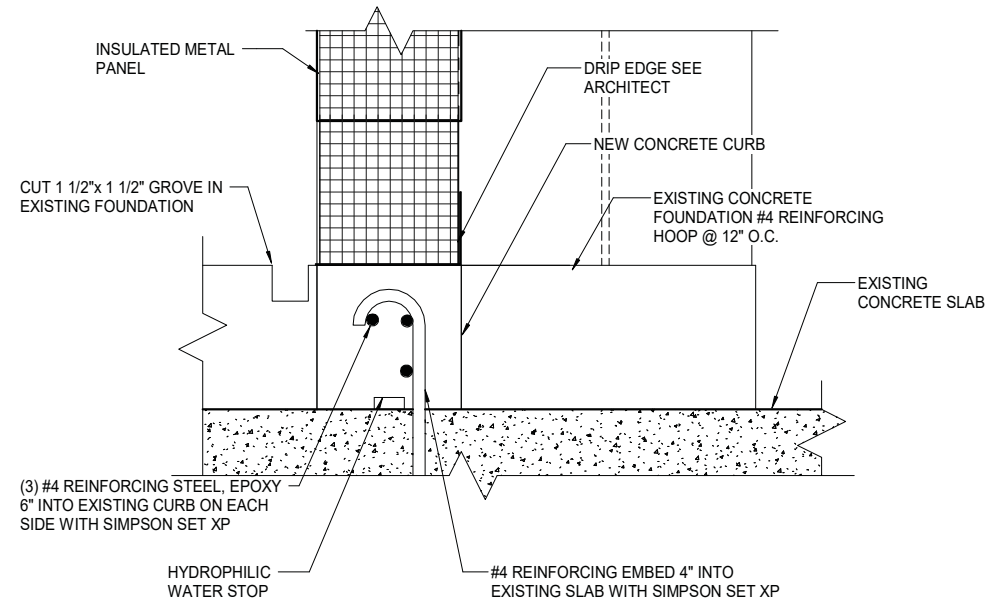
**2** TYPICAL BASE PLATE  
1 1/2" = 1'-0"



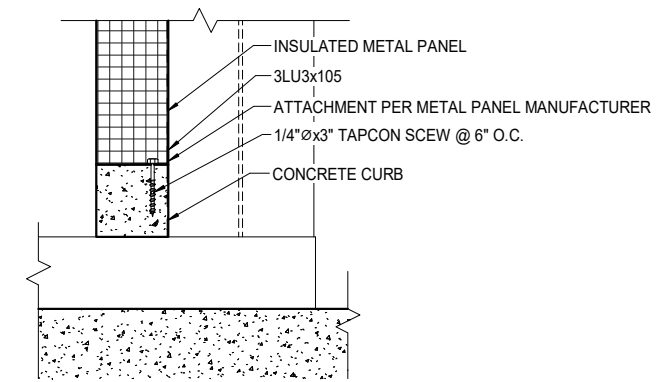
**3** TYPICAL GIRT TO COLUMN ATTACHMENT  
1 1/2" = 1'-0"



**4** TYPICAL BEAM TO COLUMN  
1" = 1'-0"



**5** NEW CURB SECTION  
3" = 1'-0"



**6** TYPICAL METAL PANEL TO CURB  
1 1/2" = 1'-0"





OVERALL BUILDING - SECURED SIDE



OVERALL BUILDING - NON-SECURED SIDE



OVERALL BUILDING - INTERIOR



ELEVATION OF SHARED WALL



TYPICAL BRACE TO COLUMN CONNECTION



TYPICAL BRACED FRAME BAY ALONG SHARED WALL



TYPICAL END WALL FRAMING



TYPICAL ENDWALL BEAM SUPPORT



TYPICAL HAUNCHED BEAM TO COLUMN



TYPICAL CHANNEL FLYING BUILDING ROOF BEAM CONNECTION



TYPICAL MEZZ. ROOF BEAM CONNECTION TO HAUNCHED BEAM



TYPICAL ROOF CONNECTION AT JUNEAU TO CHANNEL FLYING BUILDING

