



# **WHITTIER YARD: LOWER 1 & LOWER 2 TRACK IMPROVEMENTS**

**INVITATION TO BID  
21-11-208873**

**APRIL 5, 2021**

**ALASKA RAILROAD CORPORATION  
327 WEST SHIP CREEK AVENUE  
ANCHORAGE, ALASKA 99501**

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**ALASKA RAILROAD CORPORATION**  
327 W. Ship Creek Ave.  
Anchorage, AK 99501

April 5, 2021

## **INVITATION TO BID #21-11-208873**

### **Whittier Yard: Lower 1 and Lower 2 Track Improvements**

**Response Required:** This page must be completed and returned to ensure receipt of future addenda or additional information. Please e-mail this form to [BatesT@akrr.com](mailto:BatesT@akrr.com). All addenda will be forwarded to the contact name and number listed below.

**Firms that have not returned the cover sheet will not be informed of addendums and will only be alerted to addendums by checking with the ARRC procurement officer or by checking ARRC's internet site: [www.alaskarailroad.com](http://www.alaskarailroad.com) , select Procurement and then Solicitations. Bidders must acknowledge the receipt of all issued addendums in their proposal/bid submittal.**

Company \_\_\_\_\_

Address \_\_\_\_\_

Contact \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_

Email \_\_\_\_\_



**ALASKA RAILROAD CORPORATION**  
327 W. Ship Creek Avenue  
Anchorage, AK 99501

April 5, 2021

**INVITATION TO BID NUMBER 21-11-208873**

**SEALED OR EMAILED BIDS WILL BE RECEIVED AT:**

Alaska Railroad Corporation  
327 W. Ship Creek Avenue  
Anchorage, Alaska 99501  
[BatesT@akrr.com](mailto:BatesT@akrr.com)

**UNTIL 3:00 P.M. AKST ON April 26, 2021  
AT WHICH TIME BIDS WILL BE PUBLICLY OPENED**

## **Whittier Yard: Lower 1 and Lower 2 Track Improvements**

**Pre-Bid Conference and Site Visit:** A pre-bid site visit will be held at the Whittier Yard on **April 13, 2021 at 10:00**. The meeting location will be in the parking area between the ferry terminal and the ARRC gate; potential bidders will be escorted into the Whittier Yard by ARRC. Safety glasses, hardhats, safety shoes, hi-viz vests, and face coverings are required

Return your bid in a sealed envelope on which the Solicitation number appears, or via e-mail. Bids received by facsimile transmission will not be considered for award. Bids shall be submitted on the forms furnished herein. Hand-delivered bids, e-mailed bids, amendments, or withdrawals must be received by ARRC's Contracts Section prior to the scheduled time of bid opening.

Your bid must be complete. See instructions and conditions enclosed.

An Alaska Business license is not a prerequisite to bid. Bidders who possess an Alaska Business license and also meet the other criteria of an Alaska Bidder shall receive a preference per the "Alaska bidder preference".

ARRC shall not be held responsible for bidder's lack of understanding of what is required by this bid. Should a bidder not understand any aspect of this bid, or require further explanation, or clarification regarding the intent or requirements of this bid, it shall be the responsibility of the bidder to seek guidance from the ARRC.

ARRC reserves the right to reject any and all bids, or any part thereof, negotiate changes in bids, accept any bids or any part thereof, waive minor informalities or defects in any bids, and not to award the proposed contract if it is in the best interest of the ARRC.

ARRC may award a contract resulting from this solicitation to the responsive offeror whose offer conforming to this solicitation will be the most advantageous to the ARRC. ARRC may reject any or all offers if such action is in the best interest of ARRC, and waive informalities and minor irregularities in offers received. Any resulting contract from this solicitation shall incorporate the Standard Instructions,

and General Terms and Conditions for Construction incorporated in this solicitation.

This solicitation is not to be construed as a commitment of any kind nor does it commit the ARRC to pay for any costs incurred in the submission of an offer or for any other incurred cost prior to the execution of a formal contract

**BIDDER/VENDOR TERMS AND CONDITIONS: PROSPECTIVE BIDDERS ARE CAUTIONED TO PAY PARTICULAR ATTENTION TO THIS CLAUSE.** Bidder/contractor imposed terms and conditions which conflict with this Invitation for Bid terms and conditions are considered counter offers and, as such, will cause the Alaska Railroad Corporation to consider the bid non-responsive.

If a bidder attaches additional terms and conditions as part of the bid, such attachments must be accompanied by a disclaimer stating that in the event of conflict between the terms and conditions of this Invitation for Bid and the terms and conditions of the bidder/contractor, the terms and conditions of the Invitation for Bid will prevail.

**ARRC Disadvantaged Business Enterprise (DBE) Program:** ARRC is an equal opportunity corporation that encourages the participation of DBEs as prime contractors and subcontractors on its contracts funded in whole or in part by the Federal Transit Administration (FTA) or the Federal Highway Administration (FHWA). The ARRC has a race neutral DBE Program and does not set DBE goals on individual solicitations. Nonetheless, the ARRC aspires to achieve an overall DBE participation of 3.0% in federal fiscal years 2019-2021 on contracts funded by agencies within the U.S. Department of Transportation. If this contract is funded in whole or in part by funds from the FTA or the FHWA, it is imperative that you consult the Federal Terms and Conditions portion of this solicitation.



The Alaska Railroad is a member of Green Star (<http://www.greenstarinc.org/>). ARRC earned an initial Green Star Award in 1994 and a Green Star Air Quality Award in 2007. The Alaska Railroad considers Green Star membership to be a positive business attribute, and regards a Green Star award as a tangible sign of an organization's commitment to environmental stewardship and continual improvement within its operations.

Please direct all responses and/or questions concerning this invitation to bid in writing to Tim Bates, Alaska Railroad Corporation, Supply Management, 327 W. Ship Creek Avenue, Anchorage, AK 99501, telephone number 907-265-2355, email address [BatesT@akrr.com](mailto:BatesT@akrr.com).

Sincerely,

Tim Bates  
Contract Administrator  
Alaska Railroad Corporation

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## APPENDIX A – Required Documents

**REQUIRED FOR BID** Bids will not be considered if the following documents are not completely filled out and submitted at the time of bidding:

1. Construction Bid Form - [Form 395-0121]
2. Bid Bond - [Form 395-0120]
3. Cost Schedule - Appendix I
4. Questionnaire - [Form 395-0136]

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**REQUIRED AFTER NOTICE OF APPARENT LOW BIDDER** The apparent low bidder is required to complete and submit the following documents within **Five (5) Working Days** after receipt of written notification:

1. Subcontractor List - [Form 395-0131]
2. Contractor's QA/QC Plan
3. Contractor's Site Health & Safety Plan

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**REQUIRED FOR AWARD** In order to be awarded the contract, the successful bidder must completely fill out and submit the following documents within the time specified in the intent to award letter:

1. Certificate of Insurance - [from Insurance Carrier]
2. Payment Bond - [Form 395-0126]
3. Performance Bond - [Form 395-0127]
4. Contract - [Form 395-0122] and Notice to Proceed, ARRC Generated
5. State of Alaska Department of Labor - Notice of Work
6. Contractor's Business License and Contractors License

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### **POST AWARD DOCUMENTATION**

1. Weekly Certified Payrolls
2. QA/QC Reports
3. State of Alaska, DOL Notice of Completion



# APPENDIX B – Bidders Instructions

## BIDDERS INSTRUCTIONS & SPECIAL REQUIREMENTS (CONSTRUCTION)

To be considered for award, Bids must be made in accordance with the following requirements:

**Duty to Seek Clarification:** ARRC shall not be held responsible for a Bidder's lack of understanding of what is required by the Invitation to Bid. Should a Bidder not understand any aspect of the Invitation to Bid, or require further explanation or clarification regarding the intent or requirements of the same, it shall be the responsibility of the Bidder to seek clarification from ARRC prior to submitting his or her Bid.

**Terms and Conditions:** Any resulting contract from this Invitation to Bid shall incorporate the general terms and conditions contained in this bid package.

**Contract Documents:** Bidders shall familiarize themselves with the requirements of all of the Contract Documents which include, but are not limited to the "Bidders Instructions & Special Requirements", the Invitation to Bid, Bid and Contract Forms, General Conditions, Special Conditions, Specifications, Drawings, any Addenda issued prior to the receipt of Bids, and any other documents referenced or incorporated therein.

**Examination of Site:** Bidders should visit the Project Site(s) and take such other steps as may be reasonably necessary to ascertain the nature and location of the Work, and the general and local conditions which may affect the Work and the cost thereof.

**Examination and Interpretation of Documents:** Each Bidder shall examine the Contract Documents carefully and shall make written requests to ARRC prior to Bid submission for interpretation or correction of any ambiguity, inconsistency, discrepancy, omission, or error therein which the bidder may discover. Any interpretation or correction will be issued in an Addendum by ARRC. Only a written interpretation or correction shall be binding. No Bidder shall rely on any interpretation or correction given by any other method.

**Addenda:** ARRC may modify the Invitation to Bid prior to the date fixed for opening of Bids by issuance of an Addendum to all parties who have been furnished the Bid Package for bidding purposes. Bidders must acknowledge receipt of all Addenda on the Construction Bid Form [Form 395-0121].

**Qualification of Bidders:** Pursuant to ARRC Procurement Rule 1600.3, before a Bid is considered for award, ARRC may request a Bidder to submit information regarding the Bidder's capability in all respects to fully perform the contract requirements or the individual integrity and reliability which will assure good faith performance. Such information shall include the Bidder's prior experience in performing comparable Work, the availability of necessary financing, equipment, facilities, expertise and personnel to perform the Work and whether he or she has ever been terminated or defaulted on construction work.

**Bid Forms:** Bids must be submitted on the forms provided by ARRC, completed in all respects as required by the Bid Forms and other Contract Documents and manually signed by an authorized official of the Bidder. Bidders may make copies of the Bid Forms for submission of Bids.

**Submission of Bids:** Bids must be sealed, marked, and addressed as directed in the Invitation to Bid and must be delivered to the office designated in the Invitation to Bid prior to the exact time set for opening bids. Late bids will not be considered.

**Modification, Correction, Withdrawal of Bids:** Modification, correction or withdrawal of Bids will be allowed only as provided in ARRC Procurement Rule 1200.8.

**Bid Opening:** Bids will be opened in public at the time set forth in the Invitation to Bid in accordance with ARRC Procurement Rule 1200.6. The contents of the Bids will be open for public inspection after the notice of intent to award a contract is given.

**Evaluation of Bids:** Bids will be evaluated in accordance with the provisions of ARRC Procurement Rule 1200.7. Alternative bids, if called for, are intended to provide ARRC a range of comparative costs which will allow identification of the combinations most responsive to ARRC's need. The order in which the alternatives are listed or set out in the Invitation to Bid should not be taken as any indication as to the order in which ARRC may elect to select the alternatives, if any. Bidders shall submit bid prices for all alternatives stated in the Invitation to Bid and are advised that the order in which the alternatives, if any, are chosen by ARRC, may affect which Bidder is the lowest responsive and responsible Bidder.

**Bid Security:** In accordance with ARRC Procurement Rule 1200.4, all Bids shall be accompanied by bid security in the form of a cashier's check or an acceptable Bid Bond, a form of which is provided herein, in the amount of five percent (5%) of the Bid price.

**Rejection of Bids:** ARRC reserves the right to waive minor defects or informalities in a Bid in accordance with the provisions of ARRC Procurement Rule 1200.8, or to reject any or all Bids in accordance with the provisions of ARRC Procurement Rule 1600.2.

**Award of Contract:** Unless the solicitation is canceled or all bids are rejected, the procurement officer shall award a contract based on the solicited bids with reasonable promptness by written notice to the lowest, responsible and responsive Bidder whose bid conforms in all material respects to the requirements and criteria set out in the Invitation to Bid.

**Execution of Contract:** A written contract must be signed by the Bidder to whom an award is made and returned to ARRC within ten (10) calendar days, together with all required performance and payment bonds, and certificate(s) of insurance in the amounts required by the Invitation to Bid. The Bidder to whom award is made shall not be permitted to occupy the project site until he has first obtained the required insurance and submitted to ARRC proof of such insurance together with a statement certifying that said insurance conforms to requirements set forth in the Invitation to Bid.

**Failure to Execute Contract:** If the Bidder to whom the Contract is awarded refuses or neglects to execute it, or fails to furnish the required bonds and insurance within the time specified, the amount of his bid security may be retained by ARRC as liquidated damages.

**Aggrieved Bidder:** An aggrieved bidder/offeror may protest an ARRC procurement action by filing a written protest with the procurement officer in accordance with the procedures and time limits specified in ARRC Procurement Rules 1800.1-1800.11

**Government Contract Requirements:** If Federal funds will be used to pay for any part of the project described in the Invitation to Bid, any contract awarded hereunder will contain provisions requiring the successful Bidder to comply with all pertinent provisions, agreements, and clauses of the subject federal grant and all pertinent laws, regulations, Presidential directives, and executive orders to the extent they apply to the subject matter of the contract.

**Drug and Alcohol-Free Workplace:** Safety is paramount at ARRC. For that reason, ARRC maintains an alcohol and drug-free workplace and requires that the Contractor do the same. At all times during the performance of this contract, the Contractor shall have in place a written drug and alcohol program that includes, at a minimum, the following:

- a. a requirement that all applicants present a negative pre-employment drug screen prior to being hired by the Contractor;
- b. a requirement that employees submit to a "reasonable suspicion" drug and/or alcohol test when showing signs and symptoms of drug and/or alcohol influence on duty;
- c. a requirement that employees submit to "reasonable cause/post-accident" drug and alcohol tests following certain accidents or incidents (with the threshold level triggering testing to be determined by the Contractor);
- d. a provision defining a positive alcohol test as one that reveals a breath alcohol level of .02 or greater;
- e. a provision defining a positive drug test as one that reveals concentrations at the levels set forth in 49 C.F.R. § 40.87(b)(screening test) and 49 C.F.R. § 40.87(c)(confirmatory test) or greater;
- f. a provision that outlines the consequences of a positive drug or alcohol test and the consequences of an employee's refusal to submit to drug/alcohol testing; and
- g. a provision that establishes the conditions under which an employee may return to work following a positive drug and/or alcohol test, which at a minimum include an evaluation by a substance abuse professional and compliance with a recommended treatment program.

The Contractor agrees that at any time during the performance of this contract, if an ARRC employee reports to the Contractor that an employee of the Contractor or its subcontractor is showing signs and symptoms of drug/alcohol influence on duty, the Contractor shall remove the employee from ARRC property immediately and shall have the employee tested for drug/alcohol influence. If the employee tests positive, the Contractor shall ensure that the employee is not returned to work on the project until he/she has met the return to work requirements contained in the Contractor's written program.

*FRA Drug & Alcohol Testing Compliance. The Contractor agrees to establish and implement a drug and alcohol testing program that complies with 49 C.F.R. part 219, produce any documentation necessary to establish its compliance with part 219, and permit any authorized representative of the Federal Railroad Administration (FRA), ARRC or its agents, to inspect the facilities and records associated with the implementation of the drug and alcohol testing program as required under 49 C.F.R. part 219 and review the testing process. The Contractor agrees further to submit the annual Management Information System (MIS) reports required by 49 C.F.R. 219.800 covering the previous calendar year to the FRA before March 15. The Contractor agrees further to include this provision in any subcontracts that involve the performance of Roadway Worker services for ARRC.*

*FRA Emergency Order Requiring Face Mask Use in Railroad Operations. The Contractor agrees to comply with 49 CFR Parts 209 & 211; Emergency Order No. 32, Notice No. 1.*

**SUMMARY:** To help prevent the spread of coronavirus disease 2019 (COVID-19), the Federal Railroad Administration (FRA) is issuing this emergency order (E.O.) to require compliance with the mask requirements of the Order of the Centers for Disease Control and Prevention (CDC), *Requirement for Persons to Wear Masks While on Conveyances and at Transportation Hubs*. This E.O. also implements *Promoting COVID-19 Safety in Domestic and International Travel*, issued on January 21, 2021, requiring

masks to be worn in or on airports, commercial aircraft, and various modes of surface transportation, including trains. Specifically, this E.O. addresses requirements for face mask use with respect to all freight rail operations and portions of each passenger rail operation under FRA's safety jurisdiction.

**Offer Acceptance Period:** For the purpose of award, offers made in accordance with this ITB shall be good and firm for a period of thirty (30) days from the date of bid opening.

**Site-Safety Plan Requirement:** Before the contractor or any subcontractor begins any construction related work under this contract including but not limited to mobilization, equipment setup, storage, etc., taking place on sites under Alaska Railroad Corporation (ARRC) control, they will submit a site Health and Safety Plan to ARRC for compatibility acceptance.

The plan must be compatible with ARRC Safety Policies, including On-Track Safety, ARRC on-site employee safety including safety for Project Managers, Construction Managers, Flaggers, Visitors, Safety personnel, Quality Assurance staff, vendors, and the public. The plan must outline procedures for first aid, emergency response, chemical exposures, spills, site sign-in requirements for site-safety briefings, coordination with ARRC dispatch, Section 6.16 (SAFETY AND PROTECTION), Section 6.17 (WORK SAFETY ON RAILROAD PROPERTY), and Section 6.18 (EMERGENCIES), other sections of the contract GENERAL CONDITIONS.

A complete, detailed Site-Safety Plan shall be submitted to the Project Manager at least 5 days prior to commencement of any Work on the Project

#### **ALASKA BIDDER'S PREFERENCE**

Preferences shall be applied to bids that qualify for an Alaska Bidder's Preference. An Alaska bidder preference is five percent (5%). "Alaska Bidder" means a person who:

1. holds a current Alaska business license;
2. submits a bid for goods, services, or construction under the name as it appears on the person's current Alaska business license;
3. has maintained a place of business within the State of Alaska staffed by bidder or an employee of the bidder for a period of six (6) months immediately preceding the date of this bid;
4. is incorporated or qualified to do business within the State of Alaska; is a sole proprietorship, and the proprietor is a resident of the State of Alaska; or is a partnership and all partners are residents of the State of Alaska;
5. is a joint venture, composed entirely of ventures that qualify under (1) through (4) of this subsection.

#### **CONTRACTOR'S INSTRUCTION FOR SUBMITTING CERTIFIED PAYROLL (03/25/08)**

This contract may include work on an Alaska Railroad Corporation (ARRC) construction project, which is subject to the wage/certified payroll requirements of the DOLWD and/or it may include work on a federally funded construction project and be subject to U. S. Department of Labor Davis-Bacon Act wage/certified payroll requirements. As part of the contract the following will be required:

1. All contractors paid under a construction contract funded in whole or in part with federal funds shall pay laborers and mechanics the higher of the two wages listed in this contract from the U. S. Department of Labor ([www.access.gpo.gov/davisbacon/](http://www.access.gpo.gov/davisbacon/)) or from the DOLWD ([www.labor.state.ak.us/lss/home.htm](http://www.labor.state.ak.us/lss/home.htm)). Contractors paid under ARRC only funded construction contracts shall pay laborers and mechanics the appropriate wage established by the DOLWD, which is often called Little Davis-Bacon wages.
2. All contractors employing laborers and mechanics under this contract, including the owner/operator if he or she worked on the job, must submit weekly certified payrolls that contain the information listed on the DOLWD Weekly Certified Payroll Form 07-6058, pages 1 and 2. Owner/operators working on the project as mechanics or laborers, either as prime or subcontractor, must file certified payrolls and record all information including the hourly wage, fringe benefits, hours worked, overtime, et cetera, however they can defer the weekly payment and write over the total deductions and net pay boxes "owner/operator." Page 2 is the "Statement of Compliance" and must bear an original signature. The prime contractor is responsible for gathering the certified payrolls, with original signatures, from each subcontractor and for submitting them, along with its own, to the ARRC Certified Payroll Processor.
3. **Private utility companies** exempt by the state of Alaska from filing certified payrolls because they are working on their own lines must provide a copy of the state approved sworn work affidavit indicating they are paying state DOLWD required wages. Private Utility companies shall file Notices of Work (NOW) and Notices of Completion (NOC) with DOLWD, listing subcontractors, if any. The DOLWD approved finalized affidavit, NOW, and NOC shall be sent to the ARRC. The utility company shall collect original certified payrolls from all subcontractors and submit them weekly to the ARRC as outlined in these submission instructions.
4. These weekly certified payrolls must be sent to ARRC within seven days after the regular "payday" for that certified payroll at the following address:

<https://certpayportal.akrr.com/>

The contractor and its subcontractors are also responsible for filing certified payrolls with DOLWD as required.

5. The certified payroll must be completely filled out by the contractor including, but not limited to:
  - i. **Contractor's complete name**, including joint ventures, Inc., LLC. etc.
  - ii. **Contractor's license number**, also called the contractor's registration number, is required in addition to a business license to do construction work in the state. The prime contractor must be registered even if the contractor does not work on the site, but only uses site subcontractors.
  - iii. **Employee's**
    - a. Name
    - b. Address (domicile and mailing)
    - c. Social security number
    - d. Job classification
    - e. Hours worked
    - f. Wages/fringe benefits paid

Owner/operators working on the project as mechanics or laborers, either as prime or

subcontractor, must file certified payrolls and record all information including the hourly wage, fringe benefits, hours worked, overtime, et cetera, however they can defer the weekly payment and write over the total deductions and net pay boxes “owner/operator.”

iv. **Contracting agency project number**, which is the ARRC contract/purchase order number, is listed on the DOLWD finalized Notice of Work. This notice also lists the **DOLWD project number, project name, and location**. The prime contractor will supply all of this information to its subcontractors.

v. **Week ending date and payroll numbers**. The first week or part of a week of payroll will be designated as payroll number 1 for the first week, 2 for the second week, etc. until the final week worked on the project. The final payroll must be marked FINAL.

vi. The **Statement of Compliance** must be completely filled out indicating how fringe benefits are paid and listing the payroll period. The Statement of Compliance must be signed, dated, and filed (delivered or postmarked) within seven days of the payment date of the payroll. The Statement of Compliance must have an original signature.

vii. **Stamp or write “Confidential”** on the certified payroll to help ensure the privacy of contractor employees.

Failure to submit timely, complete, and accurate weekly certified payrolls to ARRC may result in the delay of payment on the contract. Sample copies of DOLWD certified payroll forms with the “Statement of Compliance” are shown in Appendix A.





# APPENDIX B-2: State of Alaska Certified Payroll Form, 07-0658, page 2

## STATEMENT OF COMPLIANCE

**CERTIFIED PAYROLL FORM 07-6058**

Contractors & Subcontractors Please Note!!!

**SSN MUST be listed for each employee on payroll**

8 AAC 30.020 CERTIFIED PAYROLL. (a) All Contractors (including owner/operators) who perform work on a public construction contract for the state or political subdivision of the state shall file with the Department a certified payroll (Form 07-6058) before Friday of each week that covers the preceding week.

(b) The certified payroll shall be submitted to the Department's regional office in which the work is performed.

Region I North of N63°  Labor Standards & Safety Div, DOLWD 675 7th Ave., Station J-1 Fairbanks, AK 99701-4593 (907) 451-2886 Fax: (907) 451-2885	Region II, South of N63°  Labor Standards & Safety Div, DOLWD 3301 Eagle Street, Suite 301 Anchorage, AK 99503-4149 (907) 269-4900 Fax: (907) 269-4915	Region IIA, Southeast Alaska, (From Yakutat south)  Labor Standards & Safety, DOLWD P. O. Box 21149 1111 W. 8th Street, Rm 302 Juneau, AK 99801 (907) 465-4842 Fax: (907) 465-3584
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In lieu of submitting Form 07-6058, contractors may submit his/her payroll form THE FORM MUST CONTAIN SOCIAL SECURITY NUMBERS FOR EACH EMPLOYEE.  
The contractor's payroll record must contain the same information required on this form.

Sec. 35.05.040 requires that all contractors or subcontractors who perform work on a public construction contract for the state or a political subdivision of the state shall, **BEFORE FRIDAY OF EACH WEEK**, file with the Department of Labor and Workforce Development (DOLWD), a sworn affidavit for the previous week, setting out in detail the number of workers employed, wages paid each week, job classification of each employee, hours worked each day and week, and other information which the DOLWD requires.

**CONTRACTORS WHO DISREGARD THEIR OBLIGATIONS TO THEIR EMPLOYEES, INCLUDING PAYMENT OF THE APPROPRIATE PREVAILING RATES OF PAY, UNCONDITIONAL PAYMENT, AND PAYMENT NOT LESS THAN ONCE A WEEK MAY BE DEBARRED FROM PUBLIC CONSTRUCTION.**

Date: 22-Dec-04

(2) That Alaska Strong Steel, Inc.  
(Contractor / Subcontractor)

I Jane Doe, President do hereby state  
(Name of Signatory Party) (Title)

is in full compliance with the provisions set forth in AS 36.10, which requires employment preference for Alaska residents as outlined in AS 36.95.010; and

(1) That I pay or supervise the payment of persons employed by Alaska Strong Steel, Inc. on the  
(Contractor / Subcontractor)

(3) That any payrolls otherwise under this contract required to be submitted for the above period are correct and complete;

Gold Creek Bridge Project; that during the payroll  
(Building or Work)

that the wage rates for laborers, mechanics or field surveyors contained herein are not less than the current applicable wage rates established by the DOLWD; that the classification set forth therein for each laborer, mechanic or field surveyor conforms with the work performed; and

period commencing on 12-Dec-04, and ending on  
(date)

(4) That any apprentices employed in the above period are duly registered in a bona fide apprenticeship program registered with the State apprenticeship agency recognized by the Bureau of Apprenticeship and Training, United States Department of Labor, or if no such agency exists in the State, are registered with the Bureau of Apprenticeship and Training, United States Department of Labor; or

18-Dec-04, all persons employed on said project have  
(date)

(5) That I am a bona fide owner/operator and that my contract amount meets or exceeds the prevailing wage for each hour I have worked. My last progress payment was received on \_\_\_\_\_ For \_\_\_\_\_

been paid full weekly wages earned, that no rebates have been or will be made either directly or indirectly to or on behalf of said

(6) That where fringe benefits are paid to approved plans, funds or programs: (check all applicable items)

Alaska Strong Steel, Inc.  
(Contractor / Subcontractor)

(a) In addition to the basic hourly wage rates paid to each laborer, mechanic or field surveyor listed on this payroll, payments of fringe benefits as currently published by DOLWD

from the full weekly wages earned by an person, and that no deductions have been made either directly or indirectly from the full wages earned by any person, other than permissible deductions, on projects covered by Alaska Statute 36 as defined in regulations issued by the Commissioner of Labor; or on Federal Projects as defined in Regulations, Part 3 (29 CFR Subtitle A), issued by the Secretary of Labor under the Copeland Act, as amended (48 Stat. 948; 63 Stat. 108; 72 Stat. 967; 76 Stat. 357; 40 USC 276 (c), and described below:

have been or will be made to a union trust.

and;

(b) In addition to the basic hourly wage rates paid to each laborer, mechanic or field surveyor listed on this payroll, payments of fringe benefits as currently published by DOLWD have been or will be made to the appropriate programs for the benefit of such workers, except as noted in Section 6(d) below. Fringe benefit payments will be made at least quarterly to an approved plan. The name of the plan is:

(c) Each laborer, mechanic or field surveyor listed on this payroll has been paid, as indicated on the payroll, an amount not less than the sum of the applicable basic hourly wage rate plus the amount of the required fringe benefits as currently published by DOLWD, except as noted in Section 6(d).

(d) Exceptions:

Exception (Craft)	Explanation
Remarks:	

The willful falsification of any of the above information may subject the contractor or subcontractor to civil or criminal prosecution. See Section 1001 of Title 18 and Section 231 of the United States Code. Also see AS 36.05.060.

*Jane Doe*

Signature (original signature required)

**Jane Doe, President**

Name & Title (print or type)



## **APPENDIX C – Minimum Qualifications/Preferences**

### **MINIMUM QUALIFICATIONS**

The construction services to be completed in Bid Item No. 8 & Bid Item No. 9 through this solicitation are critical to the operation of the ARRC. Any contractor/subcontractor who responds to this solicitation must meet the following minimum qualifications in order to be considered responsive:

1. Track-work shall be completed by a contractor/subcontractor with direct and verifiable track-work experience on at least five (5) projects spanning in duration of at least five (5) years total experience.

2. Employees shall be 49 CFR Part 213 certified and have experience with AREMA standards applicable to this work.

### **PREFERENCES**

1. **ALASKA BIDDER PREFERENCE:** Award will be made to the lowest responsive and responsible bidder after an Alaska bidder preference of five percent (5%) has been applied. The preference will be given to a person who: (1) holds a current Alaska business license at the time designated in the invitation to bid for bid opening; (2) submits a bid for goods or services under the name on the Alaska business license; (3) has maintained a place of business within the state staffed by the bidder, or an employee of the bidder, for a period of six months immediately preceding the date of the bid; (4) is incorporated or qualified to do business under the laws of the state, is a sole proprietorship and the proprietor is a resident of the state, is a limited liability company organized under AS 10.50 and all members are residents of the state, or is a partnership under AS 32.06 or AS 32.11 and all partners are residents of the state; and, (5) if a joint venture, is composed entirely of ventures that qualify under (1) - (4) of this subsection.

2. **ALASKA VETERAN PREFERENCE:** If a bidder qualifies for the Alaska bidder preference and is a qualifying entity as defined herein, they will be awarded an Alaska veteran preference of five percent (5%). The preference will be given to a (1) sole proprietorship owned by an Alaska veteran; (2) partnership under AS 32.06 or AS 32.11 if a majority of the partners are Alaska veterans; (3) limited liability company organized under AS 10.50 if a majority of the members are Alaska veterans; or (4) corporation that is wholly owned by individuals and a majority of the individuals are Alaska veterans, and may not exceed \$5,000. The bidder must also add value by actually performing, controlling, managing, and supervising the services provided, or for supplies, the bidder must have sold supplies of the general nature solicited to other state agencies, other governments, or the general public.

**In order to receive the Alaska Bidder Preference and/or Alaskan Veteran Preference, the bid must also include a statement certifying that the bidder is eligible to receive said preferences. The application of preferences is for bid evaluation purposes only.**

## **APPENDIX D – Scope of Work**

Work completed under this contract includes, but is not limited to; the removal of up to 1,500 track feet of buried yard track in its entirety and replacement of said track with OMNI Products, Inc. TraCast 2 pre-cast railroad crossing panels and installation of rail. Work subsidiary to the aforementioned includes the salvage and/or disposal of all removed materials (rails, ties, other track materials), removal and replacement of asphalt concrete (AC) pavement necessary for the installation of the panels, disposal of unclassified excavation for the same; and the procurement, placement, grading, and compaction of classified materials for the panel's subgrade (*foundation*); installation of transition ties (*as required*) and the surfacing and/or raising of the yard tracks leading up-to the improvements.

Substantial Completion: Substantial Completion shall be on or before **01 October 2021**, unless accepted and agreed upon otherwise by the Owner. This completion scope includes all work items contained within the Contract Documents, properly completed, and fully serviceable for the intended use.

Final Completion: Final Completion of all work shall be on or before **15 October 2021**.

# **APPENDIX E – General Conditions**

## **GENERAL CONDITIONS (CONSTRUCTION) (Revised 11/14/05)**

### **1. ARTICLE 1 - DEFINITIONS:**

Wherever used in the Contract Documents the following terms, or pronouns in place of them, are used, the intent and meaning, unless a different intent or meaning is clearly indicated, shall be interpreted as set forth below.

The titles and headings of the Sections, Subsections and Articles herein are intended for convenience of reference and shall not be considered as having bearing on their interpretation.

Whenever used in the Specifications or other Contract Documents the following terms have the meaning indicated which are applicable to both the singular and plural thereof. Working titles which have a masculine gender, are intended to refer to persons of either sex.

Terms not defined below shall have their ordinary accepted meanings within the context which they are used. "Webster's Third New International Dictionary of the English Language, Unabridged, Copyright 1961", or subsequent revision thereof, shall provide ordinarily accepted meanings. Words which have a well-known technical or trade meaning when used to describe Work, materials or equipment shall be interpreted in accordance with such meaning.

#### **Addenda:**

All clarifications, corrections, or changes issued graphically or in writing by the Owner after the Invitation to Bid but prior to the opening of Bids.

#### **Application For Payment:**

The form provided by the Owner which is used by the Contractor in requesting progress or Final payments and which is to include such supporting documentation as is required by the Contract Documents.

#### **Approved or Approval:**

Means written approval by the Owner or his authorized representative as defined in paragraph 2.1.

#### **ARRC Procurement Rules:**

Means the Rules governing the procurement of supplies, services, professional services and construction adopted by ARRC in accordance with A.S. 36.30.015(e). Said Rules may be downloaded from ARRC's web site, [www.alaskarailroad.com](http://www.alaskarailroad.com), under General Information, Purchasing/Contracts.

#### **A.S.:**

Initials which stand for Alaska Statute.

#### **Award:**

The acceptance, by the Owner, of the successful Bid.

#### **Bid:**

The offer of a Bidder, on the prescribed form to perform the Work in accordance with the Contract Documents at the prices quoted.

#### **Bid Bond:**

The security furnished with a Bid to guarantee that the Bidder will enter into a Contract if his Bid is accepted by the Owner.

**Bidder:**

Any individual, firm, corporation or any acceptable combination thereof, or joint venture submitting a Bid for the advertised Work.

**Calendar Day:**

Every day shown on the calendar, beginning and ending at midnight.

**Change Order:**

A written order by the Owner directing changes to the Contract, within its general scope.

**Conditions of the Contract:**

Those portions of the Contract Documents which define the rights and responsibilities of the contracting parties and of others involved in the Work. The Conditions of the Contract include General Conditions, Supplementary Conditions and other Conditions specified in the Invitation to Bid.

**Contract:**

The Contract Documents form the Contract between the Owner and the Contractor for the Work to be performed. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations or agreements, either written oral.

**Contract Documents:**

The Contract Form, Addenda, the bidding requirements and Contractor's Bid (including all appropriate bid tender forms), the Bonds, the Conditions of the Contract and all other Contract requirements, the Specifications, and the Drawings furnished by the Owner to the Contractor, together with all Change Orders and documents approved by the Contracting Officer for inclusion, modifications and supplements issued on or after the Effective Date of the Contract.

**Contracting Officer:**

The person authorized to enter into and administer the Contract on behalf of the Owner. He has authority to make findings, determinations and decisions with respect to the Contract and, when necessary, to modify or terminate the Contract.

**Contractor:**

The individual, firm, corporation or any acceptable combination thereof, contracting with the Owner for performance of the Work.

**Contract Amount:**

The total moneys payable by the Owner to the Contractor under the terms of the Contract Documents.

**Contract Time:**

The number of Calendar Days or the date specified in the Contract and authorized time extensions which identify how much time the Contractor is allowed to achieve Final Completion.

**Consultant:**

A person, firm, agency or corporation retained by the Owner to prepare Contract Documents, perform construction administration services, or other Project related services.

**Defective:**

An adjective which refers to Work that is unsatisfactory, faulty or deficient, or does not conform to the Contract Documents, or does not meet the requirements of any inspection, reference standard, test or Approval referred to in the Contract Documents, or has been damaged prior to the Owner's Approval of Final payment.

**Directive:**

A written communication to the Contractor from the Owner interpreting or enforcing a Contract requirement or ordering commencement of an item of Work.

**Drawings:**

The drawings which show the character and scope of the Work to be performed and which have been furnished by the Owner or the Owner's Consultant and are by reference made a part of the Contract Documents.

**Effective Date of the Contract:**

The date on which the Contract is fully executed by both Contractor and the Owner.

**Final Completion:**

The Work (or specified part thereof) has progressed to the point that all Work is complete as determined by the Owner.

**General Requirements:**

Sections of the Contract Documents which contain administrative and procedural requirements as well as requirements for temporary facilities.

**Holidays:**

The Owner recognizes the following Holidays:

- New Years Day - January 1
- President's Day - Third Monday in February
- Memorial Day - Last Monday in May
- Independence Day - July 4
- Labor Day - First Monday in September
- Columbus Day-Second Monday in October
- Veteran's Day - November 11
- Thanksgiving Day - Fourth Thursday in November
- 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.

**Install:**

Means to build into the Work, ready to be used in complete and operable condition and in compliance with the Contract Documents.

**Invitation to Bid:**

The public announcement, as required by law, inviting Bids for Work to be performed and/or materials to be furnished.

**Notice of Intent to Award:**

The written notice by the Owner to all Bidders identifying the apparent successful Bidder and establishing the Owner's intent to execute the Contract when all conditions required for execution of the Contract are met.

**Notice to Proceed:**

A written notice to the Contractor to begin the Work and establishing the date on which the Contract Time begins.

**Owner:**

The Alaska Railroad Corporation ("ARRC") or its authorized representative(s).

**Payment Bond:**

The security furnished by the Contractor and his Surety to guarantee payment of the debts arising out of performance of the Work.

**Performance Bond:**

The security furnished by the Contractor and his Surety to guarantee performance and completion of the Work in accordance with the Contract Documents.

**Project:**

The total construction, of which the Work performed under the Contract Documents is the whole or a part.

**Project Manager:**

The authorized representative of the Owner who is responsible for administration of the Contract.

**Regulatory Requirements:**

All laws, rules, regulations, ordinances, codes and/or orders applicable to the Work.

**Shop Drawings:**

All Drawings, diagrams, illustrations, schedules and other data which are specifically prepared by or for the Contractor to illustrate some portion of the Work and all illustrations, brochures, standard schedules, performance charts, instructions, diagrams and other information prepared by a supplier and submitted by the Contractor to illustrate material, equipment, fabrication, or erection for some portion of the Work.

**Specifications:**

Those portions of the Contract Documents consisting of written technical descriptions of materials, equipment, construction systems, standards and workmanship as applied to the Work and certain administrative and procedural details applicable thereto.

**Subcontractor:**

An individual, firm, or corporation to whom the Contractor sublets part of the Contract.

**Substantial Completion:**

Although not fully completed, the Work (or a specified part thereof) has progressed to the point where, in the opinion of the Owner as evidenced by the Owner's written notice, it is sufficiently complete, in accordance with the Contract Documents, so that the Work (or specified part) can be utilized for the purposes for which it is intended. The terms "Substantially Complete" and "Substantially Completed" as applied to any Work refer to Substantial Completion thereof.

**Supplemental Agreement:**

A written agreement between the Contractor and the Owner covering Work that is not within the general scope of the Contract.

**Surety:**

The corporation, partnership, or individual, other than the Contractor, executing a bond furnished by the Contractor.

**Unit Price Work:**

Work to be paid for on the basis of unit prices.

**Work:**

Work is the act of, and the result of, performing services, furnishing labor, furnishing and incorporating materials and equipment into the Project and performing other duties and obligations, all as required by the Contract Documents. Such Work, however incremental, will culminate in the entire completed Project, or the various separately identifiable parts thereof.

## **2. ARTICLE 2 - AUTHORITIES AND LIMITATIONS:**

### **2.1 AUTHORITIES AND LIMITATIONS:**

2.1.1 The Owner alone, shall have the power to bind the Owner and to exercise the rights, responsibilities, authorities and functions vested in the Owner by the Contract Documents, except that the Owner shall have the right to designate in writing authorized representatives to act for him.

2.1.2 Wherever any provision of the Contract Documents specifies an individual or organization, whether Governmental or private, to perform any act on behalf of or in the interests of the Owner that individual or organization shall be deemed to be the Owner's authorized representative under this Contract but only to the extent so specified.

2.1.3 The Owner may, at any time during the performance of this Contract, vest in any such authorized representative's additional power and authority to act for the Owner or designate additional representatives, specifying the extent of their authority to act for the Owner. A copy of each document vesting additional authority in or removing that authority from an authorized representative or designating an additional authorized representative shall be furnished to the Contractor.

2.1.4 The Owner reserves the right to appoint a new Project Manager without affecting any of the Contractor's obligations to the Owner under this Contract.

2.1.5 The Contractor shall perform the Work in accordance with any written order (including but not limited to instruction, direction, interpretation or determination) issued by an authorized representative in accordance with the authorized representative's authority to act for the Owner.

2.1.6 The Contractor assumes all the risk and consequences of performing the Work in accordance with any order (including but not limited to instruction, direction, interpretation or determination) of anyone not authorized to issue such order, and of any order not in writing.

2.1.7 Should the Owner or his authorized representative designate Consultant(s) to act for the Owner as provided for in Paragraph 2.1.1, the performance or nonperformance of the Consultant under such authority to act, shall not give rise to any Contractual obligation or duty of the Consultant to the Contractor, any subcontractor, any supplier, or any other organization performing any of the Work or any Surety representing them.

2.1.8 The term "Owner" when used in the text of these General Conditions or other Contract Documents following this section shall also mean any duly authorized representative of the Owner when authorized in accordance with Paragraph 2.1.1.

### **2.2 EVALUATIONS BY OWNER:**

2.2.1 The Owner will decide all questions which may arise as to:

2.2.1.1 Quality and acceptability of materials furnished;

2.2.1.2 Quality and acceptability of Work performed;

2.2.1.3 Compliance with the Schedule of Progress;

2.2.1.4 Interpretation of Contract Documents;

2.2.1.5 Acceptable fulfillment of the Contract on the part of the Contractor.

2.2.2 In order to avoid cumbersome terms and confusing repetition of expressions in the Contract Documents, whenever the terms "as ordered", "as directed", "as required", "as approved", or terms of like effect or import are used, or the adjectives "reasonable", "suitable", "acceptable", "proper" or "satisfactory" or adjectives of like effect or import are used it shall be understood as if the expression were followed by the words "the Owner".

2.2.3 When such terms are used to describe a requirement, direction, review or judgment of the Owner as to the Work, it is intended that such requirement, direction, review or judgment will be solely to evaluate the Work for compliance with the Contract Documents (unless there is a specific statement indicating otherwise).

2.2.4 The use of any such term or adjective shall not be effective to assign to the Owner any duty or authority to supervise or direct the furnishing or performance of the Work or any duty or authority to undertake responsibility contrary to the provisions of paragraphs 2.3 or 2.4.

### **2.3 MEANS & METHODS:**

2.3.1 The means, methods, techniques, sequences or procedures of construction, or safety precautions and the program incident thereto, and the failure to perform or furnish the Work in accordance with the Contract Documents are the sole responsibility of the Contractor.



## **2.4 VISITS TO SITE:**

2.4.1 The Owner will make visits to the site, off-site fabrication sites and approved remote storage sites at intervals appropriate to the various stages of construction to observe the progress and quality of the executed Work and to determine, in general, if the Work is proceeding in accordance with the Contract Documents.

2.4.2 Such observations or the lack of such observations shall in no way relieve the Contractor from his duty to perform the Work in accordance with the Contract Documents.

## **3. ARTICLE 3 - CONTRACT DOCUMENTS: INTENT, AMENDING, REUSE:**

### **3.1 INCOMPLETE CONTRACT DOCUMENTS:**

3.1.1 The execution of the Contract by the Contractor is considered a representation that the Contractor examined the Contract Documents to make certain that all sheets and pages were provided and that the Contractor is satisfied as to the conditions to be encountered in performing the Work.

3.1.2 The Owner expressly denies any responsibility or liability for a Bid submitted on the basis of an incomplete set of Contract Documents.

### **3.2 COPIES OF CONTRACT DOCUMENTS:**

3.2.1 The Owner shall furnish to the Contractor up to five copies of the Contract Documents.

3.2.2 Additional copies will be furnished, upon request, at the cost of reproduction stated in the Invitation to Bid.

### **3.3 SCOPE OF WORK:**

3.3.1 The Contract Documents comprise the entire Contract between the Owner and the Contractor concerning the Work.

3.3.2 The Contract Documents are complementary; what is called for by one is as binding as if called for by all. The Contract Documents will be construed in accordance with the Regulatory Requirements of the place of the Project.

3.3.3 It is specifically agreed between the parties executing this Contract that it is not intended by any of the provisions of the Contract to create in the public or any member thereof a third party benefit, or to authorize anyone not a party to this Contract to maintain a suit pursuant to the terms or provisions of the Contract.

### **3.4 INTENT OF CONTRACT DOCUMENTS:**

3.4.1 It is the intent of the Contract Documents to describe a functionally complete Project to be constructed in accordance with the Contract Documents.

3.4.2 Any work, materials or equipment that may reasonably be inferred from the Contract Documents as being required to produce the intended result will be supplied, without any adjustment in Contract Amount or Contract Time, whether or not specifically called for.

3.4.3 Reference to standard specifications, manuals or codes of any technical society, organization or association, or to the Regulatory Requirements of any governmental authority, whether such reference be specific or by implication, shall mean the edition stated in the Contract Documents or if not stated the latest standard specification, manual, code or Regulatory Requirements in effect at the time of advertisement for the Project (or, in the Effective Date of the Contract if there was no advertisement).

3.4.4 However, no provision of any referenced standard specification, manual or code (whether or not specifically incorporated by reference in the Contract Documents) shall be effective to change the duties and responsibilities of the Owner and the Contractor, or any of their Consultants, agents or employees from those set forth in the Contract Documents, nor shall it be effective to assign to the Owner or any of the Owner's Consultants, agents or employees, any duty or authority to supervise or direct the furnishing or performance of the Work or any duty or authority to undertake responsibility contrary to the provisions of paragraphs 2.3 or 2.4.

3.4.5 Unless otherwise specified in the Contract Documents, words which have well-known technical or construction industry meanings are used in the Contract Documents in accordance with such recognized meanings.



### **3.5 DISCREPANCY IN CONTRACT DOCUMENTS:**

3.5.1 Before undertaking the Work, the Contractor shall carefully study and compare the Contract Documents and check and verify pertinent figures, and dimensions shown thereon and all applicable field measurements.

3.5.2 Work in the area by the Contractor shall imply verification of figures, dimensions and field measurements.

3.5.3 If, during the above study or during the performance of the Work, the Contractor finds a conflict, error, discrepancy or omission in the Contract Document, or a discrepancy between the Contract Documents and any standard specification, manual, code, or regulatory requirement which affects the Work, the Contractor shall promptly report such discrepancy in writing to the Owner.

3.5.4 The Contractor shall obtain a written interpretation or clarification from the Owner before proceeding with any Work affected thereby.

3.5.5 Any adjustment made by the Contractor without this determination shall be at his own risk and expense.

3.5.6 However, the Contractor shall not be liable to the Owner for failure to report any conflict, error or discrepancy in the Contract Documents unless the Contractor had actual knowledge thereof or should reasonably have known thereof.

### **3.6 DISCREPANCY - ORDER OF PRECEDENCE:**

3.6.1 When conflicts, errors, or discrepancies within the Contract Documents exist, the order of precedence from most governing to least governing will be as follows:

3.6.1.1 Supplementary Conditions

3.6.1.2 General Conditions

3.6.1.3 Technical Specification

3.6.1.4 Drawings

3.6.1.5 Standard Construction Details

3.6.1.6 Standard Specifications

3.6.2 The Contractor shall not take advantage of any apparent error or omission in the Contract Documents. If the Contractor discovers an error or omission, the Owner shall be promptly notified. The Owner will make corrections and interpretation as necessary to fulfill the intent of the Contract. Scaled measurements shall not be used when the dimensions on the plan are given or can be computed.

### **3.7 CLARIFICATIONS AND INTERPRETATIONS:**

3.7.1 The Owner will issue with reasonable promptness such written clarifications or interpretations of the requirements of the Contract Documents as the Owner may determine necessary, which shall be consistent with or reasonably inferable from the overall intent of the Contract Documents.

### **3.8 REUSE OF DOCUMENTS:**

3.8.1 Neither the Contractor nor any subcontractor, or supplier or other person or organization performing or furnishing any of the Work under a direct or indirect Contract with the Owner shall have or acquire any title to or ownership rights in any of the Contract Documents (or copies thereof) prepared by or for the Owner and they shall not reuse any of the Contract Documents on extensions of the Project or any other Project without written consent of the Owner.

3.8.2 Contract Documents prepared by the Contractor in connection with the Work shall become the property of the Owner.

## **4. ARTICLE 4 - LANDS AND PHYSICAL CONDITIONS:**

### **4.1 AVAILABILITY OF LANDS:**

4.1.1 The Owner shall furnish as indicated in the Contract Documents, the lands upon which the Work is to be performed, rights-of-way and easements for access thereto, and such other lands which are designated for use of the Contractor in connection with the Work.

4.1.2 Easements for permanent structures or permanent changes in existing facilities will be obtained and paid for by the Owner, unless otherwise provided in the Contract Documents.

4.1.3 The Contractor shall provide for all additional lands and access thereto that may be required for temporary construction facilities or storage of materials and equipment.

#### **4.2 VISIT TO SITE:**

4.2.1 The execution of the Contract by the Contractor is considered a representation that the Contractor has visited and carefully examined the site and is satisfied as to the conditions to be encountered in performing the Work and as to the requirements of the Contract Documents.

#### **4.3 EXPLORATIONS AND REPORTS:**

4.3.1 Reference is made to the Supplementary Conditions for identification of those reports of explorations and tests of subsurface conditions at the site that have been utilized by the Owner in preparation of the Contract Documents.

4.3.2 The Contractor may for his purposes rely upon the accuracy of the factual data contained in such reports, but not upon interpretations or opinions drawn from such factual data contained therein or for the completeness or sufficiency thereof.

4.3.3 Except as indicated in the immediately preceding sentence and in paragraphs 4.4 and 9.9, Contractor shall have full responsibility with respect to surface and subsurface conditions at the site.

#### **4.4 UTILITIES:**

4.4.1 The horizontal and vertical locations of known underground utilities as shown or indicated by the Contract Documents are approximate and are based on information and data furnished to the Owner by the owners of such underground utilities.

4.4.2 The Contractor shall have full responsibility for:

4.4.2.1 Reviewing and checking all information and data concerning utilities.

4.4.2.2 Locating all underground utilities shown or indicated in the Contract Documents which are affected by the Work.

4.4.2.3 Coordination of the Work with the owners of all utilities during construction.

4.4.2.4 Safety and protection of all utilities as provided in paragraph 6.16.

4.4.2.5 Repair of any damage to utilities resulting from the Work in accordance with paragraphs 4.4.4 and 4.5.

4.4.3 If Work is to be performed by any utility owner, the Contractor shall cooperate with such owner to facilitate the Work.

4.4.4 In the event of interruption to any utility service as a result of accidental breakage or as a result of being exposed or unsupported, the Contractor shall promptly notify the utility owner and the Owner.

4.4.5 If service is interrupted repair Work shall be continuous until the service is restored.

4.4.6 No Work shall be undertaken around fire hydrants until provisions for continued service have been approved by the local fire authority.

#### **4.5 DAMAGED UTILITIES:**

4.5.1 When utilities are damaged by the Contractor, the utility owner shall have the choice of repairing the utility or having the Contractor repair the utility.

4.5.2 In the following circumstances, the Contractor shall reimburse the utility Owner for repair costs or provide at no cost to the utility owner or the Owner, all materials, equipment and labor necessary to complete repair of the damage:

4.5.2.1 When the utility is shown or indicated in the Contract Documents.

4.5.2.2 When the utility has been located by the utility owner.

4.5.2.3 When no locate was requested by the Contractor for utilities shown or indicated in the Contract Documents.

4.5.2.4 All visible utilities.

4.5.2.5 When the Contractor could have, otherwise, reasonably been expected to be aware of such utility.

#### **4.6 UTILITIES NOT SHOWN OR INDICATED:**

4.6.1 If, while directly performing the Work, an underground utility is uncovered or revealed at the site which was not shown or indicated in the Contract Documents and which the Contractor could not reasonably

have been expected to be aware of, the Contractor shall, promptly after becoming aware thereof and before performing any Work affected thereby (except in an emergency as permitted by paragraph 6.18) identify the Owner of such underground facility and give written notice thereof to that owner and to the Owner.

4.6.2 The Owner will promptly review the underground utility to determine the extent to which the Contract Documents and the Work should be modified to reflect the impacts of the discovered utility.

4.6.3. The Contract Documents will be amended or supplemented to the extent necessary through the issuance of a Change Order by the Owner.

4.6.4 During such time, the Contractor shall be responsible for the safety and protection of such underground utility as provided in paragraph 6.16.

4.6.5 The Contractor may be allowed an increase in the Contract Amount or an extension of the Contract Time, or both, to the extent that they are directly attributable to the existence of any underground utility that was not shown or indicated in the Contract Documents and which the Contractor could not reasonably have been expected to be aware of.

#### **4.7 SURVEY CONTROL:**

4.7.1 The Owner will identify sufficient horizontal and vertical control data to enable the Contractor to survey and layout the Work.

4.7.2 All survey control work shall be performed under the direct supervision of a registered Land Surveyor.

4.7.3 Upon completion of survey work, all equipment and unused materials shall be removed and the Owner's property shall be left in a neat and clean condition satisfactory to the Owner.

4.7.4 Should the Contractor or its subcontractor fail to comply with the preceding subparagraph, the Owner may perform the required clean-up. All Owner costs and expenses for performing this work shall be collected from the Contractor.

### **5. ARTICLE 5 - BONDS, INSURANCE, AND INDEMNIFICATION:**

#### **5.1 DELIVERY OF BONDS:**

5.1.1 When the Contractor delivers the executed Contract to the Owner, the Contractor shall also deliver to the Owner such bonds as the Contractor may be required to furnish in accordance with paragraph 5.2.

#### **5.2 BONDS:**

5.2.1 The Contractor shall furnish Performance and Payment Bonds, each in an amount as shown on the Contract as security for the faithful performance and payment of all Contractor's obligations under the Contract Documents.

5.2.2 These bonds shall remain in effect for one year after the date of Final Completion and until all obligations under this Contract, except special guarantees as per paragraph 12.7, have been met.

5.2.3 All bonds shall be furnished on forms provided by the Owner (or copies thereof) and shall be executed by such Sureties as are authorized to do business in the State of Alaska.

5.2.4 The Owner may at his option copy the Surety with notice of any potential default or liability.

#### **5.3 REPLACEMENT OF BOND AND SURETY:**

5.3.1 If the Surety on any bond furnished in connection with this Contract is declared bankrupt or becomes insolvent or its right to do business is terminated in any state where any part of the Project is located or it ceases to meet the requirements of paragraph 5.2, or otherwise becomes unacceptable to the Owner, or if any such Surety fails to furnish reports as to his financial condition as requested by the Owner, the Contractor shall within five days thereafter substitute another bond and Surety, both of which must be acceptable to Owner.

#### **5.4 INSURANCE REQUIREMENTS:**

5.4.1 The Contractor shall carry and maintain throughout the life of this Contract, at its own expense, insurance not less than the amounts and coverage herein specified, and the Owner shall be named as an additional named insured under the insurance coverage so specified, with respect to the performance of the Work.

5.4.2 There shall be no right of subrogation against the Owner or its agents performing work in connection with the Work, and this waiver of subrogation shall be endorsed upon the policies.

5.4.3 Insurance shall be placed with the companies acceptable to the Owner, and these policies providing coverage thereunder shall contain provisions that no cancellation or material changes in the policy shall become effective except upon 30 days prior written notice thereof to the Owner.

5.4.4 Prior to commencement of the Work, the Contractor shall furnish certificates to the Owner, in duplicate, evidencing that the insurance policy provisions required hereunder are in force.

5.4.5 Acceptance by the Owner of deficient evidence of insurance does not constitute a waiver of Contract insurance requirements.

5.4.6 The Contractor shall furnish the Owner with certified copies of policies upon request. The minimum coverages and limits required are as follows:

5.4.7 Worker's Compensation insurance in accordance with the statutory coverages required by the State of Alaska and Employers Liability insurance with limits not less than \$1,000,000 and, where applicable, insurance in compliance with any other statutory obligations, whether State or Federal, pertaining to the compensation of injured employees assigned to the Work, including but not limited to Voluntary Compensation, Federal Longshoremen and Harbor Workers Act, Maritime and the Outer Continental Shelf's Land Act and the Federal Employers Liability Act.

5.4.8 Commercial General Liability with limits not less than \$2,000,000 per occurrence and \$2,000,000 aggregate for Bodily Injury and Property Damage, including coverage for Premises and Operations Liability, Products and Completed Operations Liability, Contractual Liability, Broad Form Property Damage Liability and Personal Injury Liability. Coverage shall not contain any exclusions of Explosion, Collapse, or Underground.

5.4.9 Commercial Automobile Liability on all owned, non-owned, hired and rented vehicles with limits of liability of not less than \$1,000,000 Combined Single Limit for Bodily Injury and Property Damage per each accident or loss.

5.4.10 If Work involves use of aircraft, Aircraft Liability insurance covering all owned and non-owned aircraft with a per occurrence limit of not less than \$5,000,000.

5.4.11 If Work involves use of watercraft, Protection and Indemnity insurance with limits not less than \$5,000,000 per occurrence. Hull and Machinery coverage is to be carried on the vessel for the full current market value. This coverage requirement may be waived at the discretion of the Owner if the Contractor self-insures the equipment and will waive all rights of recovery against the Owner in writing.

5.4.12 Where applicable, Professional Liability insurance with limits of not less than \$1,000,000 per claim and \$2,000,000 aggregate, subject to a maximum deductible \$10,000 per claim. The Owner has the right to negotiate increase of deductibles subject to acceptable financial information of the policyholder.

5.4.13 Where applicable, Pollution Liability insurance with a Project limit of not less than \$5,000,000 to include coverage for Asbestos, Hazardous Materials, Lead or other related environmental hazards.

5.4.14 Builder's Risk Insurance: Coverage shall be on an "All Risk" completed value basis and protect the interests of the Owner the Contractor and his subcontractors. Coverage shall include all materials, equipment and supplies that are intended for specific installation in the Project while such materials, supplies and equipment are located at the Project site and in transit from port of arrival to jobsite and while temporarily located away from the Project site.

5.4.15 All insurance policies as described above are required to be written on an "occurrence" basis. In the event occurrence coverage is not available, the Contractor agrees to maintain "claims made" coverage for a minimum of two years after Project Completion.

## **5.5 INDEMNIFICATION:**

5.5.1 The Contractor shall indemnify, save harmless, and defend the Owner and its agents and its employees from any and all claims or actions for injuries or damages sustained by any person or property arising directly or indirectly from the Work or the Contractor's performance of this Contract; however, this provision has no effect if, but only if, the sole proximate cause of the injury or damage is the negligence of the Owner or its agents.

## **6. ARTICLE 6 - CONTRACTOR'S RESPONSIBILITIES:**

### **6.1 SUPERVISION OF WORK:**

6.1.1 The Contractor shall supervise and direct the Work competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to perform the Work in accordance with the Contract Documents.

6.1.2 All Work under this Contract shall be performed in a skillful and workmanlike manner. The Contractor shall be solely responsible for the means, methods, techniques, sequences and procedures of construction.

6.1.3 The Contractor shall keep on the Work at all times during its progress a competent resident superintendent. The Owner shall be advised in writing of the superintendent's name, local address, and telephone number. This written advice is to be kept current until Final Completion.

6.1.4 The superintendent will be the Contractor's representative at the site and shall have full authority to act and sign documents on behalf of the Contractor.

6.1.5 All communications given to the superintendent shall be as binding as if given to the Contractor.

6.1.6 The Contractor shall cooperate with the Owner in every way possible.

## **6.2 CHARACTER OF WORKERS:**

6.2.1 The Contractor shall provide a sufficient number of competent, suitable qualified personnel to survey and lay out the Work and perform construction as required by the Contract Documents.

6.2.2 The Contractor shall at all times maintain good discipline and order at the site.

6.2.3 The Owner may, in writing, require the Contractor to remove from the Work any employee the Owner deems incompetent, careless, or otherwise detrimental to the progress of the Work, but the Owner shall have no duty to exercise this right.

## **6.3 CONTRACTOR TO FURNISH:**

6.3.1 Unless otherwise specified in the Contract Documents, the Contractor shall furnish and assume full responsibility for all materials, equipment and machinery, tools, appliances, fuel, power, light, heat, telephone, water, sanitary facilities, temporary facilities and all other facilities and incidentals necessary for the furnishing, performance, testing, start-up and completion of the Work.

## **6.4 MATERIALS AND EQUIPMENT:**

6.4.1 All materials and equipment shall be of specified quality and new, except as otherwise provided in the Contract Documents. If required by the Owner, the Contractor shall furnish satisfactory evidence (including reports of required tests) as to the kind and quality of materials and equipment.

6.4.2 All materials and equipment shall be applied, installed, connected, erected, used, cleaned, and conditioned in accordance with the instructions of the applicable Supplier except as otherwise provided in the Contract Documents; but no provision of any such instructions will be effective to assign to the Owner or any of the Owner's Consultants, agents or employees, any duty or authority to supervise or direct the furnishing or performance of the Work or any duty or authority to undertake responsibility contrary to the provisions of Paragraphs 2.3 or 2.4.

## **6.5 ANTICIPATED SCHEDULES:**

6.5.1 The construction of this project shall be planned and recorded with a Critical Path Method ("CPM") schedule. The schedule shall be used for coordination and monitoring of all work under the contract including all activity of subcontractors, manufacturers, supplies, utility companies and review activity of the Owner. Within a reasonable time prior to the preconstruction conference, the Contractor shall submit for Owner's approval, a detailed initial CPM schedule. The schedule shall meet the requirements set forth below. The construction time for the entire project shall not exceed the specified Contract Time. Following the Owner's review, if revisions to the proposed CPM schedule are required, the Contractor shall do so promptly. The CPM schedule must be finalized within 30 days of the Notice to Proceed.

6.5.2 The CPM schedule shall be presented as a Precedence Diagram Network developed in the activity-on-node format and shall include a description of no less than 15 major project activities, the duration of each of the project activities, the resources required for each of the project activities, including:

6.5.2.1 labor, showing workdays per week, holidays, shifts per day, men per shift, and hours per shift;

6.5.2.2 equipment, including the number of units of each type of equipment; and

6.5.2.3 materials.

6.5.3 Owner reserves the right to adjust or add to the required project activities.

6.5.4 The activity-on-node diagram shall show the sequence and interdependence of all activities required for complete performance of all items of Work under this Contract, including shop drawings submittals



and reviews and fabrication and delivery activities. No activity duration shall be longer than 15 working days without the Owner's approval. Owner reserves the right to limit the number of activities on the schedule.

6.5.5 Before proceeding with any Work on site, the Contractor shall prepare, submit, and receive the Owner's approval of a 60-Day Preliminary Schedule. The Preliminary Schedule shall provide a detailed breakdown of activities scheduled for the first 60 days of the project and summary of activities for Work beyond 60 days. Said schedule shall include mobilization, submittals, procurement, and construction.

6.5.6 No Work may be pursued at the site without an approved 60-Day Preliminary Schedule or an approved CPM schedule. A Finalized CPM Schedule with detailed breakdown of activities for the entire contract period shall be submitted prior to the first progress payment and accepted prior to application of the second progress payment. The Contractor shall create a baseline schedule of the Accepted Finalized Schedule.

6.5.7 Within fifteen days after the date of the Notice to Proceed, the Contractor shall submit to the Owner for review: anticipated schedule of Shop Drawing submissions, and anticipated Schedule of Values for all of the Work which will include quantities and prices of items aggregating the Contract Amount and will subdivide the Work into no less than 15 line item component parts to serve as the basis for progress payments during construction.

6.5.8 Such prices will include an appropriate amount of overhead and profit applicable to each item of Work which will be confirmed in writing by the Contractor at the time of submission

6.5.9 The CPM schedule shall be submitted in an MS Project 2000 format. For each submittal required hereunder, Contractor shall submit one copy in an electronic format and one hard copy.

## **6.6 FINALIZING SCHEDULES:**

6.6.1 Prior to processing the first Application for Payment, the Owner and the Contractor will finalize the schedules required by paragraph 6.5.

6.6.2 Acceptance by the Owner of the progress schedule will neither impose on the Owner nor relieve the Contractor from full responsibility for the progress or scheduling of the Work.

6.6.3 If accepted, the Finalized Schedule of Shop Drawings and other required submissions will be acceptable to the Owner as providing a workable arrangement for processing the submissions. If accepted the Finalized Schedule of Values will be acceptable to the Owner as an approximation of anticipated value of Work accomplished over the anticipated Contract Time.

6.6.4 Receipt and acceptance of a schedule submitted by the Contractor shall not be construed to assign responsibility for performance or contingencies to the Owner or relieve the Contractor of his responsibility to adjust his forces, equipment, and work schedules as may be necessary to insure completion of the Work within prescribed Contract Time.

6.6.5 Should the prosecution of the Work be discontinued for any reason, the Contractor shall notify the Owner at least 24 hours in advance of resuming operations.

## **6.7 ADJUSTING SCHEDULES:**

6.7.1 Job site progress meetings will be held bi-weekly by the Owner and the Contractor for the purpose of updating the CPM schedule. Progress will be reviewed to verify finish dates of completed activities, remaining duration of uncompleted activities, and any proposed logic and/or time estimate revisions. The Contractor shall submit a reviewed CPM schedule within seven (7) calendar days after this meeting. The revised schedule shall show finish dates of completed activities and updated times for the remaining Work, including any addition, deletion, or revision of activities required by contract modification. In submitting a revised CPM schedule, the Contractor shall state specifically the reason for the revision and the adjustments made in this schedule or methods of operation to ensure completion of all Work within the Contract Time.

6.7.2 The Contract Time will be adjusted only for causes specified in this Contract. As determined by CPM analysis, only delays in activities, which affect milestones dates or contract completion dates will be considered for a time extension. It is understood and agreed by the Owner and the Contractor that float is shared equally. Project float is the time between the scheduled completion of the Work and Substantial Completion and is a resource available to both the Owner and the Contractor. Neither owns the float: the Project owns the float. As such, liability for delay of the Substantial Completion date rests with the party whose actions, last in time, actually cause delay to the Substantial Completion date.

6.7.3 In addition to the CPM schedule, every week during construction, the Contractor shall submit a work plan detailing his/her proposed operations for the forthcoming two (2) weeks. The work plan presented shall be a time scaled Two Week Look Ahead bar chart based and correlated by activity number to the current

schedule. In the event portions of the Work affecting critical milestone dates or contract completion dates are in danger of being delayed, or actually are delayed, the Contractor shall develop and present a plan for remedial action. This plan shall detail the following:

- 6.7.3.1 work activities;
- 6.7.3.2 manpower involved by trade;
- 6.7.3.3 work hours;
- 6.7.3.4 equipment involved; and
- 6.7.3.5 the location of the work to be performed.

6.7.4 Preparation and updating of the CPM schedule and Two Week Work Plans will not be paid for directly. Failure to submit the CPM work schedule and Two Week Work Plans as specified will result in partial withholding of progress payments.

## **6.8 SUBSTITUTES OR "OR-EQUAL" ITEMS:**

6.8.1 Whenever materials or equipment are specified or described in the Contract Documents by using the name of a proprietary item or the name of a particular Supplier the naming of the item is intended to establish the type, function and quality required.

6.8.2 Unless the name is followed by words indicating that no substitution is permitted, materials or equipment of other Suppliers may be accepted by the Owner only if sufficient information is submitted by the Contractor which clearly demonstrates to the Owner that the material or equipment proposed is equivalent or equal in all aspects to that named.

6.8.3 Requests for review of substitute items of material and equipment will not be accepted by the Owner from anyone other than the Contractor.

6.8.4 If the Contractor wishes to furnish or use a substitute item of material or equipment, the Contractor shall make written application to the Owner for acceptance thereof, certifying that the proposed substitute will perform adequately the functions and achieve the results called for by the general design, be similar and of equal substance to that specified and be suited to the same use as that specified.

6.8.5 The application will state that the evaluation and acceptance of the proposed substitute will not delay the Contractor's achievement of Substantial Completion on time, whether or not acceptance of the substitute for use in the Work will require a change in any of the Contract Documents (or in the provisions of any other direct Contract with the Owner for Work on the Project) to adapt the design to the proposed substitute and whether or not incorporation or use of the substitute in connection with the Work is subject to payment of any license fee or royalty.

6.8.6 All variations of the proposed substitute from that specified will be identified in the application and available maintenance, repair and replacement service will be indicated.

6.8.7 The application will also contain an itemized estimate of all costs that will result directly or indirectly from acceptance of such substitute, including costs of redesign and claims of other contractors affected by the resulting change, all of which shall be considered by the Owner in evaluating the proposed substitute.

6.8.8 The Owner may require the Contractor to furnish at the Contractor's expense additional data about the proposed substitute.

6.8.9 The Owner may reject any substitution request which the Owner determines is not in the best interest of the Owner.

## **6.9 SUBSTITUTE MEANS AND METHODS:**

6.9.1 If a specific means, method, technique, sequence or procedure of construction is indicated in or required by the Contract Documents, the Contractor may furnish or utilize a substitute means, method, sequence, technique or procedure of construction acceptable to the Owner, if the Contractor submits sufficient information to allow the Owner to determine that the substitute proposed is equivalent to that indicated or required by the Contract Documents.

## **6.10 EVALUATION OF SUBSTITUTION:**

6.10.1 The Owner will be allowed a reasonable time within which to evaluate each proposed substitute. The Owner will be the sole judge of acceptability, and no substitute will be ordered, installed or utilized without the Owner's prior written acceptance which will be evidenced by either a Change Order or a Shop Drawing approved in accordance with paragraphs 6.19 and 6.20. The Owner may require the Contractor to furnish at the

Contractor's expense a special Performance Bond or other Surety with respect to any substitute.

#### **6.11 DIVIDING THE WORK:**

6.11.1 The divisions and sections of the Specifications and the identifications of any Drawings shall not control the Contractor in dividing the Work among subcontractors or suppliers or delineating the Work to be performed by any specific trade, except as required by law.

#### **6.12 SUBCONTRACTORS:**

6.12.1 The Contractor may utilize the services of licensed specialty subcontractors on those parts of the Work which, under normal contracting practices, are performed by licensed specialty subcontractors, in accordance with the following conditions:

6.12.2 The Contractor shall not award any Work to any subcontractor without prior written Approval of the Owner. This Approval will not be given until the Contractor submits to the Owner a written statement concerning the proposed award to the subcontractor which shall contain required E.E.O. Documents, evidence of insurance, and a copy of the proposed subcontract executed by the subcontractor.

6.12.3 No acceptance by the Owner of any such subcontractor shall constitute a waiver of any right of the Owner to reject Defective Work.

6.12.4 The Contractor shall be fully responsible to the Owner for all acts and omissions of the subcontractors, suppliers and other persons and organizations performing or furnishing any of the Work under a direct or indirect Contract with Contractor just as Contractor is responsible for Contractor's own acts and omissions.

6.12.5 All Work performed for Contractor by a subcontractor will be pursuant to an appropriate written agreement between Contractor and the subcontractor which specifically binds the subcontractor to the applicable terms and conditions of the Contract Documents for the benefit of the Owner and contains waiver provisions as required by paragraph 13.17 and termination provisions as required by Article 14.

6.12.6 Nothing in the Contract Documents shall create any contractual relationship between the Owner and any such subcontractor, supplier or other person or organization, nor shall it create any obligation on the part of the Owner to pay or to see to the payment of any moneys due any such subcontractor, supplier or other person or organization except as may otherwise be required by Regulatory Requirements.

6.12.7 The Owner will not undertake to settle any differences between or among the Contractor, subcontractors, or suppliers.

6.12.8 The Contractor and subcontractors shall coordinate their Work and facilitate general progress of Work.

6.12.9 Each trade shall afford other trades every reasonable opportunity for installation of their Work and storage of materials.

6.12.10 If cooperative Work of one trade must be altered due to lack of proper supervision, or failure to make proper provisions in time by another trade, such conditions shall be remedied by the Contractor with no change in Contract Amount or Contract Time.

6.12.11 The Contractor shall include on his own payrolls any person or persons working on the Contract who are not covered by written subcontract, and shall ensure that all subcontractors include on their payrolls all persons performing Work under the direction of the subcontractor.

#### **6.13 USE OF PREMISES:**

6.13.1 The Contractor shall confine construction equipment, the storage of materials and equipment and the operations of workers to the Project limits and approved remote storage sites and lands and areas identified in and permitted by Regulatory Requirements, rights-of-way, permits and easements, and shall not unreasonably encumber the premises with construction equipment or other materials or equipment.

6.13.2 The Contractor shall assume full responsibility for any damage to any such land or area, or to the owner or occupant thereof or of any land or areas contiguous thereto, resulting from the performance of the Work.

6.13.3 Should any claim be made against the Owner by any such owner or occupant because of the performance of the Work, the Contractor shall defend, indemnify and hold the Owner and its agents harmless therefrom.



#### **6.14 STRUCTURAL LOADING:**

6.14.1 The Contractor shall not load nor permit any part of any structure to be loaded in any manner that will endanger the structure, nor shall the Contractor subject any part of the Work or adjacent property to stresses or pressures that will endanger it.

#### **6.15 RECORD DOCUMENTS:**

6.15.1 The Contractor shall maintain in a safe place at the site one record copy of all Drawings, Specifications, Addenda, Field Memos, Work Orders, Change Orders, Supplemental Agreements, and written interpretations and clarifications issued pursuant to paragraph 3.7 in good order and annotated to show all changes made during construction.

6.15.2 Copies of these record documents together with all approved samples and a counterpart of all approved Shop Drawings shall be provided to the Owner on site.

6.15.3 Upon completion of the Work, the annotated record documents, samples and Shop Drawings will be delivered to the Owner.

6.15.4 Record documents shall accurately record variations in the Work which vary from requirements shown or indicated in the Contract Documents.

#### **6.16 SAFETY AND PROTECTION:**

6.16.1 The Contractor alone shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work.

6.16.2 The Contractor shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss to:

6.16.2.1 All employees on the Work and other persons and organizations who may be affected thereby;

6.16.2.2 All the Work and materials and equipment to be incorporated therein, whether in storage on or off the site; and

6.16.2.3 Other property at the site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, and utilities not designated for removal, relocation or replacement in the course of construction.

6.16.3 In the performance of this contract, the Contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation. The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the Owner may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the Work covered by the contract.

It is a condition of this contract, and shall be made a condition of each subcontract entered into pursuant to this contract, that the Contractor and any subcontractor shall not permit any employee in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous, or dangerous to his/her health or safety, as determined under the OSHA construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 333).

Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 333).

6.16.4 The Contractor shall notify owners of adjacent property and utility owners when prosecution of the Work may affect them, and shall cooperate with them in the protection, removal, relocation and replacement of their property.

6.16.5 All damage, injury or loss to any property caused, directly or indirectly, in whole or in part, by the Contractor, any Subcontractor, supplier or any other person or organization directly or indirectly employed by any of them to perform or furnish any of the Work or anyone for whose acts any of them may be liable, shall be remedied by the Contractor with no change in Contract Amount or Contract Time except as stated in paragraph 4.6, except damage or loss attributable to unforeseeable causes beyond the control of and without the fault or negligence of the Contractor, including but not restricted to acts of God, or the public enemy or governmental authorities.

6.16.6 The Contractor's duties and responsibilities for the safety and protection of the Work shall continue until Final Completion except as otherwise expressly provided in connection with Substantial

Completion.

6.16.7 The Contractor shall designate a responsible safety representative at the site. This person shall be the Contractor's superintendent unless otherwise designated in writing by the Contractor to the Owner.

#### **6.17 WORK SAFETY ON RAILROAD PROPERTY:**

6.17.1 The safety of personnel, property, rail operations, and the public is of paramount importance in the prosecution of the Work pursuant to this contract. As reinforcement and in furtherance of overall safety measures to be observed by Contractor (and not by way of limitation), the following special safety rules shall be followed while working on Alaska Railroad Corporation ("ARRC") property. Further railroad safety information may be obtained from the ARRC Safety Office at 907-265-2440. Safety information is also available on the ARRC website at [www.alaskarailroad.com](http://www.alaskarailroad.com).

6.17.2 In the event Contractor or its subcontractor will be performing construction or other activities on or in close proximity to a railroad track, the Contractor shall be responsible for compliance with the Federal Railroad Administration's Roadway Worker Protection ("RWP") regulations (49 CFR 214, Subpart C). Under 49 CFR 214, Subpart C, railroad contractors are responsible for the training of their employees on these regulations. All RWP related Work shall be conducted in strict compliance with the RWP safety standards set forth in 49 CFR 214, Subpart C and the Contractor will be required to submit a Railroad Safety Plan to ARRC to demonstrate compliance with said safety standards prior to beginning any RWP related Work. Specific information on Railroad Safety Plans may be obtained from the ARRC Safety Office at 907-265-2440.

6.17.3 In the event Contractor will be performing construction or other activities on a railroad bridge, the provisions of 49 CFR 214 regarding bridge worker safety shall apply. All bridge related Work shall be conducted in strict compliance with the bridge worker safety standards set forth in 49 CFR 214 and the Contractor will be required to submit a Railroad Safety Plan to ARRC to demonstrate compliance with said safety standards prior to beginning any bridge related Work.

6.17.4 Contractor shall arrange with ARRC to keep itself informed on the time of arrival of all trains and shall stop any of Contractor's or Subcontractor's operations which might be or cause a hazard to the safe passage of the train past the Work site from 10 minutes before the expected arrival of the train until it has passed or at any other time as directed by the flagman.

6.17.5 ARRC flag protection is required before any activity can occur on or near a railroad operating facility such as a track, yard, bridge or shop building. For incidental work, such as surveying or inspection, an ARRC qualified flagman will provide a safety briefing prior to the commencement of the Work to discuss how and when protection from train traffic is to be provided. For any activity involving a disturbance or potential disturbance to the track, track embankment, or any railroad facility, ARRC may require a specific Railroad Safety Plan prior to startup. Projects which involve activities which cross the tracks or are longitudinal to the tracks will require a specific Railroad Safety Plan and a one hour ARRC provided training course for Contractor's project supervisors prior to the initiation of Work on ARRC property.

6.17.6 The Contractor and/or Subcontractor shall arrange for ARRC flag protection when performing any Work within 20 feet of any track. All Work within 20 feet of the track shall cease when a train passes and all Contractor and Subcontractor employees shall maintain a distance of at least 20 feet from the track until the train has safely passed. In addition, any Work that could come within 20 feet of the track will cease when a train passes. For example, crane or pile driving activities shall stop when trains pass when the maximum boom and suspended load radius can come within 20 feet of the tracks. Pile driving shall not be done when trains are passing the Work site. Vehicles and other construction equipment shall not be operated or parked closer than 20 feet from any track without ARRC flag protection.

6.17.7 Track outages require ARRC's prior approval. Prior to a proposed track outage, the Contractor shall submit a closure plan to ARRC for approval. The plan will describe the Work to be accomplished, the equipment, manpower and other resources required, and the schedule. Once approved by ARRC, the Contractor shall follow the plan. ARRC reserves the right to assume control of the Work to reestablish rail service if the schedule is not met. Contractor shall bear all costs and damages which may result from failure to meet the closure schedule.

6.17.8 Whenever an ARRC flag person is required for performance of the Work, he or she will be provided by the ARRC at no expense to the Contractor. A minimum of 48 hours' notice is required for ARRC flag protection.

## **6.18 EMERGENCIES:**

6.18.1 In emergencies affecting the safety or protection of persons or the Work or property at the site or adjacent thereto, the Contractor, without special instruction or authorization from the Owner, is obligated to act to prevent threatened damage, injury or loss.

6.18.2 The Contractor shall give the Owner prompt written notice if the Contractor believes that any significant changes in the Work or variations from the Contract Documents is required because of the action taken in response to an emergency. A change will be authorized by one of the methods indicated in paragraph 9.2, as determined appropriate by the Owner.

## **6.19 SHOP DRAWINGS AND SAMPLES:**

6.19.1 After checking and verifying all field measurements and after complying with applicable procedures specified in the Contract Documents, the Contractor shall submit to the Owner for review and Approval in accordance with the accepted schedule of Shop Drawing submissions the required number of all Shop Drawings, which will bear a stamp or specific written indication that the Contractor has satisfied Contractor's responsibilities under the Contract Documents with respect to the review of the submission. All submissions will be identified as the Owner may require. The data shown on the Shop Drawings will be complete with respect to quantities, dimensions, specified performance and design criteria, materials and similar data to enable the Owner to review the information as required.

6.19.2 The Contractor shall also submit to the Owner for review and Approval with such promptness as to cause no delay in Work, all samples required by the Contract Documents. All samples will have been checked by and accompanied by a specific written indication that the Contractor has satisfied Contractor's responsibilities under the Contract Documents with respect to the review of the submission and will be identified clearly as to material, Supplier, pertinent data such as catalog numbers and the use for which intended.

6.19.3 Before submission of each Shop Drawing or sample the Contractor shall have determined and verified all quantities, dimensions, specified performance criteria, installation requirements, materials, catalog numbers and similar data with respect thereto and reviewed or coordinated each Shop Drawing or sample with other Shop Drawings and samples and with the requirements of the Work and the Contract Documents.

6.19.4 At the time of each submission the Contractor shall give the Owner specific written notice of each variation that the Shop Drawings or samples may have from the requirements of the Contract Documents, and, in addition, shall cause a specific notation to be made on each Shop Drawing submitted to the Owner for review and Approval of each such variation.

6.19.5 All variations of the proposed Shop drawing from that specified will be identified in the submission and available maintenance, repair and replacement service will be indicated.

6.19.6 The submittal will also contain an itemized estimate of all costs that will result directly or indirectly from acceptance of such variation, including costs of redesign and claims of other contractors affected by the resulting change, all of which shall be considered by the Owner in evaluating the proposed variation.

6.19.7 If the variation may result in a change of Contract Time or Amount, or Contract responsibility, and is not minor in nature, the Contractor must submit a written request for Change Order with the variation to notify the Owner of his intent.

6.19.8 The Owner may require the Contractor to furnish at the Contractor's expense additional data about the proposed variation.

6.19.9 The Owner may reject any variation request which the Owner determines is not in the best interest of the Owner.

## **6.20 SHOP DRAWING AND SAMPLE REVIEW:**

6.20.1 The Owner will review with reasonable promptness Shop Drawings and samples, but the Owner's review will be only for conformance with the design concept of the Project and for compliance with the information given in the Contract Documents and shall not extend to means, methods, techniques, sequences or procedures of construction (except where a specific means, method, technique, sequence or procedure of construction is indicated in or required by the Contract Documents) or to safety precautions or programs incident thereto.

6.20.2 The review of a separate item as such will not indicate acceptance of the assembly in which the item functions.

6.20.3 The Contractor shall make corrections required by the Owner and shall return the required number of corrected copies of Shop Drawings and submit as required new samples for review.

6.20.4 The Contractor shall direct specific attention in writing to revisions other than the corrections

called for by the Owner on previous submittals.

6.20.5 The Owner's review of Shop Drawings or samples shall not relieve Contractor from responsibility for any variation from the requirements of the Contract Documents unless the Contractor has in writing advised the Owner of each such variation at the time of submission as required by paragraph 6.19.4.

6.20.6 The Owner, if he so determines, may give written Approval of each such variation by Change Order, except that, if the variation is minor and no Change Order has been requested a specific written notation thereof incorporated in or accompanying the Shop Drawing or sample review comments shall suffice as a modification.

6.20.7 No Approval by the Owner will relieve the Contractor from responsibility for errors or omissions in the Shop Drawings or from responsibility for having complied with the provisions of paragraph 6.20.3.

6.20.8 Where a Shop Drawing or sample is required by the Specifications, any related Work performed prior to the Owner's review of the pertinent submission will be at the sole expense and responsibility of the Contractor.

## **6.21 MAINTENANCE DURING CONSTRUCTION:**

6.21.1 The Contractor shall maintain the Work during construction and until Substantial Completion, at which time the responsibility for maintenance shall be established in accordance with paragraph 13.10.

## **6.22 CONTINUING THE WORK:**

6.22.1 The Contractor shall carry on the Work and adhere to the progress schedule during all disputes or disagreements with the Owner.

6.22.2 No Work shall be delayed or postponed pending resolution of any disputes, disagreements, or claims except as the Contractor and the Owner may otherwise agree in writing.

## **6.23 CONSENT TO ASSIGNMENT:**

6.23.1 The Contractor shall obtain the prior written consent of the Owner to any proposed assignment of any interest in, or part of this Contract.

6.23.2 The consent to any assignment or transfer shall not operate to relieve the Contractor or his Sureties of any of his or its obligations under this Contract or the Performance Bonds.

6.23.3 Nothing herein contained shall be construed to hinder, prevent, or affect an assignment of monies due, or to become due hereunder, made for the benefit of the Contractor's creditors pursuant to law.

## **6.24 USE OF EXPLOSIVES:**

6.24.1 When the use of explosives is necessary for the prosecution of the Work, the Contractor shall exercise the utmost care not to endanger life or property, including new Work and shall follow all Regulatory Requirements applicable to the use of explosives.

6.24.2 The Contractor shall be responsible for all damage resulting from the use of explosives.

6.24.3 All explosives shall be stored in a secure manner in compliance with all Regulatory Requirements, and all such storage places shall be clearly marked.

6.24.4 Where no Regulatory Requirements apply, safe storage shall be provided not closer than 1,000 feet from any building, camping area, or place of human occupancy.

6.24.5 The Contractor shall notify each public utility owner having structures in proximity to the site of his intention to use explosives. Such notice shall be given sufficiently in advance to enable utility owners to take such steps as they may deem necessary to protect their property from injury.

6.24.6 However, the Contractor shall be responsible for all damage resulting from the use of the explosives, whether or not, utility owners act to protect their property.

## **6.25 CONTRACTOR'S RECORDS:**

6.25.1 Records of the Contractor and subcontractors relating to personnel, payrolls, invoices of materials, and any and all other data relevant to the performance of the Contract, must be kept on a generally recognized accounting system.

6.25.2 Such records must be available during normal Work hours to the Owner for purposes of investigation to ascertain compliance with Regulatory Requirements and provisions of the Contract Documents.

6.25.3 Payroll records must contain the name and address of each employee, his correct classification, social security number, rate of pay, daily and weekly number of hours of worked, deductions made, and actual



wages paid and any other information required by the U.S. and/or State Department of Labor.

6.25.4 The Contractor and subcontractors shall make employment records available for inspection by the Owner and representatives of the U.S. and/or State Department of Labor and will permit such representatives to interview employees during working hours on the Project.

6.25.5 Records of all communications between the Owner and the Contractor and other parties, where such communications affected performance of this Contract, must be kept by the Contractor and maintained for a period of three years from Final Completion.

6.25.6 The Owner or its assigned representative may perform an audit of these records during normal work hours after written notice to the Contractor.

## **6.26 CONSTRUCTION QUALITY CONTROL PLAN:**

6.26.1 The Contractor shall establish and maintain an effective quality management system. The quality management system shall consist of plans, procedures, and the organization necessary to provide material, equipment, and workmanship to comply with the requirements of the contract documents. The system shall cover the proposed sequence of the work including both on-site and off-site operations. To meet this requirement, the Contractor shall prepare a Construction Quality Control (CQC) plan that addresses all quality control requirements specified in the contract documents. A complete, detailed CQC plan shall be submitted to the Project Manager at least 10 days prior to commencement of any Work on the Project. The CQC must be approved in writing by the Project Manager prior to proceeding with the Work. The Contractor shall not revise the CQC or the quality staffing levels or replace any of the key personnel specified therein without prior written approval from the Project Manager.

## **7. ARTICLE 7 - LAWS AND REGULATIONS:**

### **7.1 LAWS TO BE OBSERVED:**

7.1.1 The Contractor shall keep fully informed of all Federal and State Regulatory Requirements and all Orders and decrees of bodies or tribunals having any jurisdiction or authority, which in any manner affect those engaged or employed on the Work, or which in any way affect the conduct of the Work.

7.1.2 The Contractor shall at all times observe and comply with all such Regulatory Requirements, orders and decrees; and shall defend and indemnify the Owner and its representatives against claim or liability arising from or based on the violation of any such Regulatory Requirement, order, or decree whether by the Contractor, subcontractor, or any employee of either.

7.1.3 Except where otherwise expressly required by applicable Regulatory Requirements, the Owner shall not be responsible for monitoring Contractor's compliance with any Regulatory Requirements.

### **7.2 PERMITS, LICENSES, AND TAXES:**

7.2.1 The Contractor shall procure all permits and licenses, pay all charges, fees and taxes, and give all notices necessary and incidental to the due and lawful prosecution of the Work. As a condition of performance of this Contract, the Contractor shall pay all Federal, State and local taxes incurred by the Contractor, in the performance of the Contract. Proof of payment of these taxes is a condition precedent to Final payment by the Owner under this Contract.

7.2.2 The Contractor's certification that taxes have been paid (as contained in the Release of Contract) will be verified with the Department of Revenue and Department of Labor, prior to Final payment.

7.2.3 If any Federal, State or local tax is imposed, charged, or repealed after the date of Bid opening and is made applicable to and paid by the Contractor on the articles or supplies herein contracted for, then the Contract shall be increased or decreased accordingly by a Change Order.

### **7.3 PATENTED DEVICES, MATERIALS AND PROCESSES:**

7.3.1 If the Contractor employs any design, device, material, or process covered by letters of patent, trademark or copyright, the Contractor shall provide for such use by suitable legal agreement with the patentee or owner.

7.3.2 The Contractor and the Surety shall, defend, indemnify and save harmless the Owner and its agents, any affected third party, or political subdivision from any and all claims for infringement by reason of the use of any such patented design, device, material or process, or any trademark or copyright, and shall indemnify the Owner for any costs, expenses, and damages which it may be obliged to pay by reason of any infringement, at any time during the prosecution or after the completion of the Work.

**7.4 COMPLIANCE OF SPECIFICATION AND DRAWINGS:**

7.4.1 If the Contractor observes that the Specification and Drawings supplied by the Owner are at variance with any Regulatory Requirements, Contractor shall give the Owner prompt written notice thereof, and any necessary changes will be authorized by one of the methods indicated in paragraph 9.2. as determined appropriate by the Owner.

7.4.2 If the Contractor performs any Work knowing or having reason to know that it is contrary to such Regulatory Requirements, and without such notice to the Owner, the Contractor shall bear all costs arising therefrom; however, it shall not be the Contractor's primary responsibility to make certain that the Specifications and Drawings supplied by the Owner are in accordance with such Regulatory Requirements.

**7.5 ACCIDENT PREVENTION:**

7.5.1 The Contractor shall comply with AS 18.60.075 and all pertinent provisions of the Construction Code Occupational Safety and Health Standards issued by the Alaska Department of Labor.

**7.6 SANITARY PROVISIONS:**

7.6.1 The Contractor shall provide and maintain in a neat and sanitary condition such accommodations for the use of his employees and Owner representatives in strict accordance with the requirements of the State and local Boards of Health, OSHA or of other bodies or tribunals having jurisdiction.

**7.7 BUSINESS REGISTRATION:**

7.7.1 The Contractor shall comply with AS 08.18.011, as follows: *"it is unlawful for a person to submit a bid or Work as a Contractor until he has been issued a certificate of registration by the Department of Commerce. A partnership or joint venture shall be considered registered if one of the general partners or venturers whose name appears in the name under which the partnership or venture does business is registered."*

**7.8 PROFESSIONAL REGISTRATION AND CERTIFICATION:**

7.8.1 All craft trades, architects, engineers and land surveyors, electrical administrators, explosive handlers, and welders employed under the Contract shall specifically comply with applicable provisions of AS 08.18, 08.48, 08.40, 08.52, and 08.99.

7.8.2 Provide copies of individual licenses within seven days following a request from the Owner.

**7.9 LOCAL BUILDING CODES:**

7.9.1 The Contractor shall comply with AS 35.10.025 which requires construction in accordance with applicable local building codes including the obtaining of required permits.

**7.10 AIR QUALITY CONTROL:**

7.10.1 The Contractor shall comply with all applicable provision of AS 46.03.04 as pertains to Air Pollution Control.

**7.11 ARCHAEOLOGICAL OR PALEONTOLOGICAL DISCOVERIES:**

7.11.1 When the Contractor's operation encounters prehistoric artifacts, burials, remains of dwelling sites, or paleontological remains, such as shell heaps, land or sea mammal bones or tusks, the Contractor shall cease operations immediately and notify the Owner.

7.11.2 No artifacts or specimens shall be further disturbed or removed from the ground and no further operations shall be performed at the site until so directed.

7.11.3 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 document.

**7.12 WAGES AND HOURS OF LABOR:**

7.12.1 The Contractor shall submit certified payrolls bearing an original signature on a weekly or biweekly basis to the State Department of Labor as required by law, and shall comply with all other applicable labor reporting laws. The Contractor shall also submit certified payrolls bearing an original signature, along with those of its subcontractors, to the Owner on a weekly basis and shall retain copies of the payrolls for a minimum of

three (3) years.

7.12.2 The Contractor shall be responsible for the submission and retention of certified payrolls of all of its subcontractors.

7.12.3 The certification shall affirm that the payrolls are current and complete, that the wage rates contained therein are not less than the applicable rates referenced in the Contract Documents, and that the classification set forth for each laborer or mechanic conforms with the work he performed.

7.12.4 The Contractor and its subcontractors shall attend all hearings and conferences and produce such books, papers, and documents all as requested by the Department of Labor.

### **7.13 THE FOLLOWING LABOR PROVISIONS SHALL ALSO APPLY TO THIS CONTRACT:**

7.13.1 The Contractor and his subcontractors shall pay all employees unconditionally and not less than once a week. Wages may not be less than those stated in the Invitation to Bid, 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 and easily accessible place at the site of the Work. The Owner shall withhold so much of the accrued payments as is necessary to pay laborers, mechanics, or field surveyors employed by the Contractor or Subcontractors the difference between the rates of wages required by the Contract to be paid laborers, mechanics, or field surveyors on the Work, and the rates of wages in fact received by laborers, mechanics or field surveyors.

### **7.14 OVERTIME WORK HOURS AND COMPENSATION:**

7.14.1 Pursuant to 40 U.S.C. 327-330 and AS 23.10.060, the Contractor shall not require nor permit any laborer or mechanic in any workweek in which he is employed on any Work under this Contract to work in excess of eight hours in any Calendar Day or in excess of forty hours in such workweek on work subject to the provisions of the Contract Work Hours and Safety Standards Act unless such laborer or mechanic receives compensation at a rate not less than one and one half times his basic rate of pay for all such hours worked in excess of eight hours in any Calendar Day or in excess of forty hours in such workweek whichever is the greater number of overtime hours.

7.14.2 In the event of any violation of this provision, the Contractor shall be liable to any affected employee for any amounts due and penalties and to the Owner for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic employed in violation of this provision in the sum of \$10.00 for each Calendar Day on which such employee was required or permitted to be employed on such Work in excess of eight hours or in excess of the standard workweek of forty hours without payment of the overtime wages required by this paragraph.

### **7.15 COVENANT AGAINST CONTINGENT FEES:**

7.15.1 The Contractor warrants that no person or selling agent has been employed or retained to solicit or secure this Contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, excepting bona fide employees or bona fide established commercial or selling agencies maintained by the Contractor for the purpose of securing business.

7.15.2 For breach or violation of this warranty, the Owner shall have the right to annul this Contract without liability or, in its discretion, to deduct such improper consideration from the Contract Amount or otherwise recover the full amount of such commission, percentage, brokerage, or contingent fee.

### **7.16 OFFICIALS NOT TO BENEFIT:**

7.16.1 No member of or delegate to the U.S. Congress, the State Legislature, or other State or Owner officials shall be admitted to any share or part of this Contract, nor to any benefit that may arise there from. However, this provision shall not be construed to extend to this Contract if made with a corporation for its general benefit.

### **7.17 PERSONAL LIABILITY OF PUBLIC OFFICIALS:**

7.17.1 In carrying out any of the provisions thereof, or in exercising any power or authority granted to the Owner by the Contract, there will be no liability upon the Owner nor upon its agents or authorized as its representatives, either personally or as officials of the State of Alaska, it being always understood that in such matters they act as agents and representatives of the Owner.

## **8. ARTICLE 8 - OTHER WORK:**

### **8.1 RELATED WORK AT SITE:**

8.1.1 The Owner reserves the right at any time to contract for and perform other or additional work on or near the Work covered by the Contract.

8.1.2 When separate contracts are let within the limits of the Project, the Contractor shall conduct his work so as not to interfere with or hinder the work being performed by other contractors. The Contractor shall join his work with that of the others in an acceptable manner and shall perform it in proper sequence to that of others.

8.1.3 If the fact that other such work is to be performed is identified or shown in the Contract Documents, the Contractor shall assume all liability, financial or otherwise, in connection with this Contract and indemnify and save harmless the Owner and its agents from any and all damages or claims that may arise because of inconvenience, delay, or loss experienced by the Contractor because of the presence and operations of other contractors.

8.1.4 If the fact that such other work is to be performed was not identified or shown in the Contract Documents, written notice thereof will be given to the Contractor prior to starting any such other work. If the Contractor believes that such performance will require an increase in Contract Amount or Contract Time, the Contractor shall notify the Owner of such required increase within fifteen (15) calendar days following receipt of the Owner's notice. Should the Owner find such increase(s) to be justified, a Change Order will be executed.

### **8.2 ACCESS, CUTTING, AND PATCHING:**

8.2.1 The Contractor shall afford each utility owner and any other contractor who is a party to such a direct contract with the Owner (or the Owner, if the Owner is performing the additional work with the Owner's employees) proper and safe access to the site and a reasonable opportunity for the introduction and storage of materials and equipment and the execution of such work and shall properly connect and coordinate the Work with the work of others.

8.2.2 The Contractor shall do all cutting, fitting and patching of the Work that may be required to make its several parts come together properly and integrate with such other Work, the Contractor shall not endanger any Work of others by cutting, excavating or otherwise altering their Work and will only cut or alter such other Work with the written consent of the Owner.

8.2.3 The duties and responsibilities of the Contractor under this paragraph are for the benefit of other contractors to the extent that there are comparable provisions for the benefit of the Contractor in said direct Contracts between the Owner and other contractors.

### **8.3 DEFECTIVE WORK BY OTHERS:**

8.3.1 If any part of the Contractor's Work depends for proper execution or results upon the Work of any such other Contractor, utility owner, or the Owner, the Contractor shall inspect and promptly report to the Owner in writing any delays, defects or deficiencies in such Work that render it unavailable or unsuitable for such proper execution and results. The Contractor's failure to so report will constitute an acceptance of the other Work as fit and proper for integration with Contractor's Work except for latent or non-apparent defects and deficiencies in the other Work.

### **8.4 COORDINATION:**

8.4.1 If the Owner contracts with others for the performance of other Work at the site, Owner will have authority and responsibility for coordination of the activities among the various contractors.

## **9. ARTICLE 9 - CHANGES:**

### **9.1 OWNER'S RIGHT TO CHANGE:**

9.1.1 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 within the general scope of the Contract, including but not limited to changes:



- 9.1.1.1 In the Contract Documents;
- 9.1.1.2 In the method or manner of performance of the Work;
- 9.1.1.3 In Owner-furnished facilities, equipment, materials, services, or site;
- 9.1.1.4 Directing acceleration in the performance of the Work.

## **9.2 AUTHORIZATION OF CHANGES WITHIN THE GENERAL SCOPE:**

9.2.1 Additions, deletions, or revisions in the Work within the general scope of the Contract as specified in paragraph 9.1 shall be authorized by one or more of the following ways:

9.2.1.1 Directive (pursuant to paragraph 9.3)

9.2.1.2 A Change Order (pursuant to paragraph 9.4)

9.2.1.3 Owner's acceptance of Shop Drawing variations from the Contract Documents as specifically identified by the Contractor as required by paragraph 6.19.4.

## **9.3 DIRECTIVE:**

9.3.1 The Owner shall provide written clarification or interpretation of the Contract Documents (pursuant to paragraph 3.7).

9.3.2 The Owner may authorize minor variations in the Work from the requirements of the Contract Documents which do not involve an adjustment in the Contract Amount or the Contract Time and are consistent with the overall intent of the Contract Documents.

9.3.3 The Owner may order the Contractor to correct Defective Work or methods which are not in conformance with the Contract Documents.

9.3.4 The Owner may direct the commencement or suspension of Work or emergency related Work (as provided in paragraph 6.18).

9.3.5 Upon the issuance of a directive to the Contractor by the Owner, the Contractor shall immediately proceed with the performance of the Work as prescribed by such directive.

9.3.6 If the Contractor believes that the changes noted in a directive may cause an increase in the Contract Amount or an extension of Contract Time, the Contractor shall immediately provide written notice to the Owner depicting such increases before proceeding with the directive, except in the case of an emergency.

9.3.7 If the Owner finds the increase in Contract Amount or the extension of Contract Time justified, a Change Order will be issued.

9.3.8 If however, the Owner does not find that a Change Order is justified, the Owner may direct the Contractor to proceed with the Work.

9.3.9 The Contractor shall cooperate with the Owner in keeping complete daily records of the cost of such Work.

9.3.10 If a Change Order is ultimately determined to be justified, in the absence of agreed prices and unit prices, payment for such Work will be made on a cost of the Work basis as provided in paragraph 10.4.

## **9.4 CHANGE ORDER:**

9.4.1 A change in Contract Time, Contract Amount, or responsibility may be made for changes within the scope of the Work only by Change Order.

9.4.2 Upon receipt of an executed Change Order, the Contractor shall promptly proceed with the Work involved which will be performed under the applicable conditions of the Contract Documents except as otherwise specifically provided.

9.4.3 Changes in Contract Amount and Contract Time shall be made in accordance with Articles 10 and 11.

## **9.5 SHOP DRAWING VARIATIONS:**

9.5.1 Variations by Shop Drawings shall only be eligible for consideration under paragraph 9.4 when the conditions affecting the price, time, or responsibility are identified by the Contractor in writing and a request for a Change Order is submitted as per paragraph 6.19.7.

## **9.6 CHANGES OUTSIDE THE GENERAL SCOPE; SUPPLEMENTAL AGREEMENT**

9.6.1 Any change which is outside the general scope of the Contract, as determined by the Owner, must be authorized by the appropriate representatives of the Owner and the Contractor.

## **9.7 UNAUTHORIZED WORK:**

9.7.1 The Contractor shall not be entitled to an increase in the Contract Amount or an extension of the Contract Time with respect to any Work performed that is not required by the Contract Documents as amended, modified and supplemented as provided in this Article 9, except in the case of an emergency as provided in paragraph 6.18 and except in the case of uncovering Work as provided in paragraph 12.4.4.

## **9.8 NOTIFICATION OF SURETY:**

9.8.1 If notice of any change affecting the general scope of the Work or the provisions of the Contract Documents including, but not limited to, Contract Amount or Contract Time is required by the provisions of any Bond to be given to a Surety, the giving of any such notice will be the Contractor's responsibility, and the amount of each applicable Bond will be adjusted accordingly.

## **9.9 DIFFERING SITE CONDITIONS:**

9.9.1 The Contractor shall promptly, and before such conditions are disturbed (except in an emergency as permitted by paragraph 6.18), notify the Owner in writing of:

9.9.1.1 subsurface or latent physical conditions at the site differing materially from those indicated in the Contract, and which could not have been discovered by a careful examination of the site, or

9.9.1.2 unknown physical conditions at the site, or an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in Work of the character provided for in this Contract.

9.9.2 The Owner shall promptly investigate the conditions, and if the Owner finds that such conditions do materially so differ and cause an increase or decrease in the Contractor's cost of, or time required for, performance of this Contract, an equitable adjustment shall be made and the Contract modified in writing accordingly.

9.9.3 Any claim for additional compensation by the Contractor under this clause shall be made in accordance with Article 15 and shall not be allowed unless the Contractor has first given the notice required by this Contract.

9.9.4 In the event that the Owner and the Contractor are unable to reach an agreement concerning an alleged differing site condition, the Contractor will be required to keep an accurate and detailed record which will indicate the actual cost of the Work done under the alleged differing site condition.

9.9.5 Failure to keep such a record shall be a bar to any recovery by reason of such alleged differing site conditions. The Owner shall be given the opportunity to supervise and check the keeping of such records.

## **9.10 VALUE ENGINEERING PROPOSALS BY THE CONTRACTOR:**

9.10.1 Proposals may be submitted to the Owner for modifying the plans, specifications, or other requirements of the Contract for the sole purpose of reducing the total costs of construction without impairing in any manner the essential functions or characteristics of the project, including service life, economy of operations, ease of maintenance, benefits to the traveling public, desired appearance or design and safety standards. After execution of the Contract, an initiative may be recommended by the Contractor or, if applicable, sponsoring governmental agency. The initiative must be identified as a Value Engineering Proposal (VEP), and may include modifications to the plans or specifications, construction phasing or procedures, or other contract requirements. Any cost savings generated to the Contract as a result of VEP offered by the Contractor and approved by Owner will be shared equally between the Contractor and Owner as specified in paragraph 9.14. Bid prices are not to be based on the anticipated approval of a VEP. If a VEP is rejected, the Contract shall be completed in accordance with the original terms of the Contract or as otherwise modified. Any decision whether to approve or accept a VEP shall be within the sole discretion of Owner. Owner will bear no liability for any delay in considering a VEP, the refusal to accept or approve such a proposal, or any other matter connected with a VEP.

## **9.11 SUBMITTAL & REVIEW OF VEP CONCEPT OR IDEA:**

9.11.1 The Contractor shall initially submit a brief letter proposal with graphics to Owner to illustrate the concept or idea. The Contractor shall indicate whether adequate time is available in its schedule for formal submittal and review prior to VEP implementation.

9.11.2 Owner will review the concept or idea within ten days of the Contractor's initial submittal and inform the Contractor in writing whether the concept or idea has merit and should be submitted as a formal VEP.

9.11.3 If Owner determines that the time for response is indicated in the Contractor's letter proposal is

insufficient for review, Owner may choose to evaluate the need for a non-compensable time extension to the Contract. Its evaluation will be based on the additional time needed by the Owner for its review and the effect on the Contractor's schedule occasioned by the added time. The need for such a time extension will be evaluated in accordance with Article 11.

## **9.12 FORMAL SUBMITTAL OF THE VEP:**

9.12.1 Within 30 days after Owner has determined the VEP concept or idea has merit, the Contractor shall formally submit a proposal. The proposal shall include sufficient data for Owner to make an informed decision regarding the proposal and shall include, at a minimum, the following information:

9.12.1.1 A statement that the Proposal is submitted as a VEP.

9.12.1.2 A description of the difference between the existing contract and the proposed change and the advantages and disadvantages of each, including effects on service life, economy of operations, ease of maintenance, benefits to the traveling public, desired appearance and safety.

9.12.1.3 A complete set of plans and specifications showing the proposed revisions relative to the original contract features and requirements supported by design computations as necessary for a thorough and expeditious evaluation.

9.12.1.4 A complete analysis indicating the final estimated costs and quantities to be replaced by the VEP compared to the new costs and quantities generated by the VEP.

9.12.1.5 A statement specifying the date by which a Change Order adopting the VEP must be executed to obtain the maximum cost reduction.

9.12.1.6 A statement detailing the effect the VEP will have on the time for completing the Contract.

9.12.1.7 A description of any previous use or testing of the VEP and the conditions and results. If the VEP was previously submitted on another Owner project, indicate the date, contract number, and the action taken by Owner.

9.12.1.8 A detailed statement indicating the costs for developing the changes, along with the costs for preparing the value engineering joint proposal.

## **9.13 VEP CONDITIONS:**

9.13.1 Value Engineering Proposals will be considered only when all of the following conditions are met:

9.13.1.1 A VEP, approved or not approved by Owner applies only to the contract on which it is submitted. A submitted VEP becomes the property of Owner. The VEP shall contain no restrictions imposed by the Contractor on its use or disclosure. Owner has the right to use, duplicate and disclose in whole or in part any data necessary for the utilization of the VEP. Owner retains the right to use any accepted VEP or part thereof on other projects without obligation to the Contractor. This provision is not intended to deny rights provided by law with respect to patented materials or processes.

9.13.1.2 If Owner is already considering certain revisions to the Contract or has considered or approved changes in the Contract of a like nature on other contracts which are subsequently incorporated in a VEP, Owner may reject the VEP and may change the Contract without obligation to the Contractor.

9.13.1.3 The Contractor shall have no claim for additional costs or delays resulting from the rejection of a VEP, including development costs, loss of anticipated profits, increased material or labor costs except as allowed in paragraph 9.14.

9.13.1.4 Owner will determine if a VEP qualifies for consideration and evaluation. It may reject any VEP that requires excessive time or costs for review, evaluation or investigation, or that is not consistent with Owner's design policies and criteria for the project.

9.13.1.5 Owner will reject all or any portion of work performed under an approved VEP if unsatisfactory results are obtained. The Owner will direct the removal of rejected work and require construction to proceed under the original contract requirements without reimbursement for rejected work performed under the VEP, or for its removal. Where modifications to the VEP are approved to adjust to field or other conditions, reimbursement will be limited to the total amount payable for the work at the contract bid prices as if it were constructed under the original contract requirements. The rejection or limitation of reimbursement shall not constitute the basis of any claim against Owner for delay or for other costs.

9.13.1.6 The proposed work shall not contain experimental features but shall contain features that have been used under similar or acceptable conditions on other projects or locations acceptable to Owner.

9.13.1.7 VEPs will not be considered if equivalent options are already provided in the Contract.

9.13.1.8 The savings generated by the VEP must be sufficient to warrant a review and processing. A savings resulting solely from the elimination or reduction in quantity of a single bid item will not be considered as a VEP. A savings resulting from the elimination or reduction in quantity of a bid item specified as part of a VEP will be considered.

9.13.1.9 Additional information needed to evaluate VEPs shall be provided in a timely manner. Untimely submittals of additional information will result in rejection of the VEP. Where design changes are proposed, the additional information could include results of field investigations and surveys, design computations, and field change sheets.

9.13.1.10 The Contractor may submit VEPs for an approved subcontractor. Reimbursement will be made to the Contractor. Subcontractors may not submit a VEP except through the Contractor.

9.13.1.11 The Contractor shall ensure the VEP is sealed by an Alaska Registered Engineer.

#### **9.14 VEP ACCEPTANCE, REJECTION & PAYMENT:**

9.14.1 Within 30 days of the Contractor's formal submission of the VEP, Owner will accept or reject the VEP.

9.14.2 The Contractor will be notified in writing by the Owner as to whether the proposal has been accepted. The decision by Owner is final and shall not be subject to the provisions of Article 15.

9.14.3 If the VEP is rejected, Owner will share equally in the Contractor's costs for developing and presenting the proposal, and the Contractor will share equally in the cost to Owner for investigating and evaluating the proposal. A Change Order will be executed to adjust the Contract Amount for the net increase or decrease in monies resulting from the Contractor's development costs as listed above in paragraph 9.12.1.8, and Owner's evaluation costs. The Change Order will terminate Owner's review of the VEP.

9.14.4 If the VEP is accepted in whole or part, the necessary contract modifications and contract price adjustments will be made by the execution of a Change Order which will specifically state that it is executed pursuant to the provisions of this subsection. Owner will be the sole judge of the acceptability of a VEP and of the estimated net savings in construction costs from the adoption of all or any part of the VEP.

9.14.5 The Contractor shall continue to perform the Work in accordance with the requirements of the Contract until a Change Order incorporating the VEP has been executed, or until the Contractor has been given written acceptance or rejection by the Owner.

9.14.6 The executed Change Order shall incorporate the changes in the plans, specifications, or other requirements of the Contract which are necessary to permit the VEP, or such part of it which has been accepted, to be put into effect, and shall include any conditions upon which Owner's approval thereof is based. The executed Change Order shall extend or decrease the Contract Time if required by Owner.

9.14.7 The executed Change Order shall provide that the Contractor be paid 50% of the net savings amount as reflected by the difference between the cost of the revised work and the cost of the related construction required by the original contract computed at contract bid prices. The net savings will take into account the Contractor's cost of developing the VEP and implementing the change, and reducing this amount by Owner's cost for investigating and evaluating the VEP, including any ascertainable collateral costs to Owner. Such collateral costs may include increased costs for maintenance, operation, related work items, additional work items, or elements of related or additional work items.

9.14.8 The executed Change Order shall also provide for the adjustment of the Contract Amount. The Contract Amount shall be adjusted by subtracting Owner's share of the accrued net savings.

9.14.9 The amount specified to be paid to the Contractor in the executed Change Order shall constitute full compensation to the Contractor for the VEP and the performance of the work thereof pursuant to the said Change Order.

### **10. ARTICLE 10 - CONTRACT AMOUNT; COMPUTATION AND CHANGE:**

#### **10.1 CONTRACT AMOUNT:**

10.1.1 The Contract Amount constitutes the total compensation (subject to authorized adjustments) payable to the Contractor for performing the Work. All duties, responsibilities and obligations assigned to or undertaken by the Contractor shall be at his expense without change in the Contract Amount. The Contract Amount may only be changed by a Change Order or Supplemental Agreement.

## **10.2 CLAIM FOR CHANGE IN CONTRACT AMOUNT:**

10.2.1 Any claim for an increase or decrease in the Contract Amount shall be submitted in accordance with the terms of Article 15, and shall not be allowed unless the notice requirements of this Contract have been met.

## **10.3 CHANGE ORDER PRICE DETERMINATION:**

10.3.1 The value of any Work covered by a Change Order for an increase or decrease in the Contract Amount shall be determined in one of the following ways:

10.3.2 Where the Work involved is covered by unit prices contained in the Contract Documents, by application of unit prices to the quantities of the items involved (subject to the provisions of paragraph 10.9).

10.3.3 By mutual acceptance of a lump sum price which includes overhead and profit.

10.3.4 When 10.3.1 and 10.3.2 are inapplicable, on the basis of the Cost of the Work (determined as provided in paragraphs 10.4 and 10.5) plus a contractor's fee for overhead and profit (determined as provided in paragraph 10.6).

## **10.4 COST OF THE WORK:**

10.4.1 The term Cost of the Work means the sum of all costs necessarily incurred and paid by the Contractor in the proper performance of the Work.

10.4.2 Except as otherwise may be agreed to in writing by the Owner, such costs shall be in amount no higher than those prevailing in the locality of the Project, shall include only the following items and shall not include any of the costs itemized in paragraph 10.5:

10.4.2.1 Payroll costs for employees in the direct employ of the Contractor in the performance of the Work under schedules of job classifications agreed upon by the Owner and the Contractor.

10.4.2.2 Payroll costs for employees not employed full time on the Work shall be apportioned on the basis of their time spent on the Work.

10.4.2.3 Payroll costs shall include, but not be limited to, salaries and wages plus the cost of fringe benefits which shall include Social Security Contributions, Unemployment, Excise and Payroll Taxes, Workers' or Workmen's compensation, health and retirement benefits, bonuses, sick leave, vacation and holiday pay applicable thereto.

10.4.2.4 Such employees shall include superintendents and foremen at the site.

10.4.2.5 The expenses of performing Work after regular working hours, on Saturday, Sunday or Legal Holidays, shall be included in the above to the extent authorized by the Owner.

10.4.2.6 Cost of all materials and equipment furnished and incorporated in the Work, including costs of transportation and storage thereof, and suppliers' field services required in connection therewith. All cash discounts shall accrue to the Contractor unless the Owner deposits funds with the Contractor with which to make payments, in which case the cash discounts shall accrue to the Owner. All trade discounts, rebates and refunds and all returns from sale of surplus materials and equipment shall accrue to the Owner, and the Contractor shall make provisions so that they may be obtained.

10.4.2.7 Payments made by the Contractor to subcontractors for Work performed by subcontractors. If required by the Owner, Contractor shall obtain competitive quotes from subcontractors or suppliers acceptable to the Contractor and shall deliver such quotes to the Owner who will then determine which quotes will be accepted. If a subcontract provides that the subcontractor is to be paid on the basis of Cost of the Work plus a fee, the subcontractor's Cost of the Work shall be determined in the same manner as the Contractor's Cost of Work. All subcontracts shall be subject to the other provisions of the Contract Documents insofar as applicable.

10.4.2.8 Costs of special Consultants (including but not limited to engineers, architects, testing laboratories, and surveyors) employed for services necessary for the completion of the Work.

10.4.2.9 Supplemental costs including the following:

10.4.2.9.1 The proportion of necessary transportation, travel and subsistence expenses of the Contractor's employees incurred in discharge of duties connected with the Work.

10.4.2.9.2 Cost, including transportation and maintenance, of all materials, supplies, equipment, machinery, appliances, office and temporary facilities at the site and hand tools not owned by the workers, which are consumed in the performance of the Work, and cost less market value of such items used but not consumed which remain the property of the Contractor.

10.4.2.9.3 Rentals of all construction equipment and machinery and the parts thereof



whether rented from the Contractor or others in accordance with rental agreements approved by the Owner and the costs of transportation, loading, unloading, Installation, dismantling and removal thereof - all in accordance with terms of said rental agreements. The rental of any such equipment, machinery or parts shall cease when the use thereof is no longer necessary for the Work.

10.4.2.9.4 Sales, consumer, use or similar taxes related to the Work, and for which the Contractor is liable, imposed by Regulatory Requirements.

10.4.2.9.5 Fees for permits and licenses.

10.4.2.9.6 Losses and damages (and related expenses), not compensated by insurance or otherwise, to the Work or otherwise sustained by the Contractor in connection with the performance and furnishing of the Work provided they have resulted from causes other than the negligence of the Contractor, any subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable. Such losses shall include settlements made with the written consent and Approval of the Owner. No such losses, damages and expenses shall be included in the Cost of the Work for the purpose of determining the Contractor's Fee. If, however, any such loss or damage requires reconstruction and the Contractor is placed in charge thereof, the Contractor shall be paid for services a fee in accordance with paragraph 10.6.

10.4.2.9.7 The cost of utilities, fuel and sanitary facilities at the site.

10.4.2.9.8 Minor expenses such as telegrams, long distance telephone calls, telephone service at the site, expressage and similar petty cash items in connection with the Work.

10.4.2.9.9 Cost of premiums for additional bonds and insurance required because of changes in the Work and premiums for property insurance coverage within the limits of the deductible amounts established by the Owner in accordance with Article 5.

## **10.5 EXCLUDED COSTS:**

10.5.1 The term Cost of the Work shall not include any of the following:

10.5.1.1 Payroll costs and other compensation of Contractor's officers, executives, principles (of partnership and sole proprietorships), general managers, engineers, architects, estimators, attorneys, auditors, accountants, purchasing and contracting agency, expeditors, 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 and not specifically included in the agreed upon schedule of job classifications referred to in paragraph 10.4.2.1 - all of which are to be considered administrative costs covered by the Contractor's Fee.

10.5.1.2 Expenses of Contractor's principal and branch offices other than Contractor's office at the site.

10.5.1.3 Any part of Contractor's capital expenses including interest on Contractor's capital employed for the Work and charges against Contractor for delinquent payments.

10.5.1.4 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 by subparagraph 10.4.2.9.9 above).

10.5.1.5 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.

10.5.1.6 Costs for the use of small tools having a value of five hundred dollars (\$500) or less.

10.5.1.7 Other overhead or general expense costs of any kind and the costs of any item not specifically and expressly included in paragraph 10.4.

## **10.6 CONTRACTOR'S FEE:**

10.6.1 The Contractor's Fee allowed to Contractor for overhead and profit shall be a mutually agreed upon fixed fee, or if none can be agreed upon, a fee based on the following percentages of the various portions of the Cost of the Work:

10.6.1.1 For costs incurred under subparagraphs 10.4.2.1 through 10.4.2.6, the Contractor's Fee shall be 15%;

10.6.1.2 For costs incurred under subparagraphs 10.4.2.7, 10.4.2.8 and 10.4.2.9, the Contractor's Fee shall be 10%; and if a subcontract is on the basis of Cost of the Work plus a fee, the maximum allowable to the Contractor on account of overhead and profit of all subcontractors shall be 10%;

10.6.2 No fee shall be payable on the basis of costs itemized under paragraph 10.5;



10.6.3 The amount of credit to be allowed by the Contractor to the Owner for any such change which results in a net decrease in cost will be the amount of the actual net decrease plus a deduction in Contractor's Fee by a mutually agreed upon amount or if none can be agreed upon, then an amount equal to 5% of the net decrease; and

10.6.4 When both additions and credits are involved in any one change, the adjustment in Contractor's Fee shall be computed on the basis of the net change in accordance with subparagraphs 10.6.1.1. and 10.6.1.2.

#### **10.7 COST BREAKDOWN:**

10.7.1 Whenever the cost of any Work is to be determined pursuant to paragraphs 10.4 and 10.5, the Contractor will submit in a form acceptable to the Owner an itemized cost breakdown together with supporting data.

#### **10.8 CASH ALLOWANCES:**

10.8.1 It is understood the Contractor has included in the Contract Amount all allowances so named in the Contract Documents and shall cause the Work so covered to be done by such subcontractors or suppliers and for such sums within the limit of the allowances as may be acceptable to the Owner. Contractor agrees that:

10.8.1.1 The allowances include the cost to Contractor (less any applicable trade discounts) of materials and equipment required by the allowances to be delivered at the site, and all applicable taxes; and

10.8.1.2 Contractor's cost for unloading and handling on the site, labor, installation costs, overhead, profit and other expenses contemplated for the allowances have been included in the Contract Amount and not in the allowances. No demand for additional payment on account of any thereof will be valid. Prior to Final payment, an appropriate Change Order will be issued to reflect actual amounts due the Contractor on account of Work covered by allowances, and the Contract Amount shall be correspondingly adjusted.

#### **10.9 UNIT PRICE WORK:**

10.9.1 Where the Contract Documents provide that all or part of the work is to be Unit Price Work, initially the Contract Amount will be deemed to include for all Unit Price Work an amount equal to the sum of the established unit prices for each separately identified item of Unit Price Work times the estimated quantity of each item as indicated in the Contract.

10.9.2 The estimated quantities of items of Unit Price Work are not guaranteed and are solely for the purpose of comparison of Bids and determining an initial Contract Amount.

10.9.3 Determinations of the actual quantities and classifications of Unit Price Work performed by the Contractor will be made by the Owner in accordance with paragraph 10.10.

10.9.4 Each unit price will be deemed to include an amount considered by the Contractor to be adequate to cover the Contractor's overhead and profit for each separately identified item.

10.9.5 If the "Basis of Payment" clause in the Contract Documents relating to any unit price in the bid schedule requires that the said unit price cover and be considered compensation for certain Work or material essential to the item, this same Work or material will not also be measured or paid for under any other pay item which may appear elsewhere in the Contract Documents.

10.9.6 Payment to the Contractor shall be made only for the actual quantities of Work performed and accepted or materials furnished, in conformance with the Contract Documents.

10.9.7 When the accepted quantities of Work or materials vary from the quantities stated in the bid schedule, or change documents, the Contractor shall accept as payment in full, payment at the stated unit prices for the accepted quantities of Work and materials furnished, completed and accepted, except as provided below:

10.9.7.1 When the quantity of Work to be done or material to be furnished under any item, for which the total cost of the item exceeds 10% of the total Contract Amount, is increased by more than 25% of the quantity stated in the bid schedule, or change documents, either party to the Contract, upon demand, shall be entitled to an equitable unit price adjustment on the portion of the Work above 125% of the quantity stated in the bid schedule.

10.9.7.2 When the quantity of Work to be done or material to be furnished under any major item, for which the total cost of the item exceeds 10% of the total Contract Amount, is decreased by more than 25% of the quantity stated in the bid schedule, or change documents, either party to the Contract, upon demand, shall be entitled to an equitable price adjustment for the quantity of Work performed or material furnished, limited to a total payment of not more than 75% of the amount originally bid for the item.

## **10.10 DETERMINATIONS FOR UNIT PRICES:**

10.10.1 The Owner will determine the actual quantities and classifications of Unit Price Work performed by the Contractor .

10.10.2 The Owner will review with the Contractor preliminary determinations on such matters before certifying the prices on the Bid Schedule.

10.10.3 The Owner's certification thereon will be final and binding on the Contractor, unless, within ten days after the date of any such decision, the Contractor delivers to the Owner written notice of intention to appeal from such a decision.

## **11. ARTICLE 11 - CONTRACT TIME; COMPUTATION & CHANGE:**

### **11.1 COMMENCEMENT OF CONTRACT TIME; NOTICE TO PROCEED:**

11.1.1 The Contract Time will commence to run on the day indicated in the Notice to Proceed.

### **11.2 STARTING THE WORK:**

11.2.1 No Work on Contract items shall be performed before the effective date of the Notice to Proceed. The Contractor shall notify the Owner at least 24 hours in advance of the time actual construction operations will begin. The Contractor may request a limited Notice to Proceed after Award has been made, to permit him to order long lead materials which could cause delays in Project completion. However, granting is within the sole discretion of the Owner, and refusal or failure to grant a limited Notice to Proceed shall not be a basis for claiming for delay, extension of time, or alteration of price.

### **11.3 COMPUTATION OF CONTRACT TIME:**

11.3.1 When the Contract Time is specified on a Calendar Days basis, all Work under the Contract shall be completed within the number of Calendar Days specified.

11.3.2 The count of Contract Time begins on the day following receipt of the Notice to Proceed by the Contractor, if no starting day is stipulated therein.

11.3.3 Calendar Days shall continue to be counted against Contract Time until and including the date of Final Completion of the Work.

11.3.4 When the Contract completion time is specified as a fixed calendar date, it shall be the date of Final Completion.

### **11.4 TIME CHANGE:**

11.4.1 The Contract Time may only be changed by a Change Order or Supplemental Agreement.

### **11.5 EXTENSION DUE TO DELAYS:**

11.5.1 The right of the Contractor to proceed shall not be terminated nor the Contractor charged with liquidated or actual damages because of any delays to the completion of the Work due to unforeseeable causes beyond the control and without the fault or negligence of the Contractor, including, but not restricted to the following: acts of God or of the public enemy, acts of the Owner in contractual capacity, acts of another contractor in the performance of a contract with the Owner, floods, fires, epidemics, quarantine restrictions, strikes, freight embargoes, unusually severe weather and delays of subcontractors or suppliers due to such causes.

11.5.2 Any delay in receipt of materials on the site, caused by other than one of the specifically mentioned occurrences above, does not of itself justify a time extension.

11.5.3 The Owner shall ascertain the facts and the extent of the delay and extend the time for completing the Work when the findings of fact justify such an extension.

### **11.6 ESSENCE OF CONTRACT:**

11.6.1 All time limits stated in the Contract Documents are of the essence of the Contract.

### **11.7 REASONABLE COMPLETION TIME:**

11.7.1 It is expressly understood and agreed by and between the Contractor and the Owner that the date of beginning and the time for Final Completion of the Work described herein are reasonable times for the completion of the Work.

## **11.8 DELAY DAMAGES:**

11.8.1 Whether or not the Contractor's right to proceed with the Work is terminated, he and his sureties shall be liable for damages resulting from his refusal or failure to complete the Work within the specified time. Liquidated damages for delay shall be paid by the Contractor or his Surety to the Owner in the amount as specified in the Supplementary Conditions for each Calendar Day the completion of the Work or any part thereof is delayed beyond the Contract Time required by the Contract, or any extension thereof. If such amount of liquidated damages is not established by the Contract Documents, then the Contractor and his Surety shall be liable to the Owner for any actual damages occasioned by such delay.

11.8.2 The Contractor acknowledges that the liquidated damages established herein are not a penalty but rather constitute an estimate of damages that the Owner will sustain by reason of delayed completion. These liquidated damages are intended as compensation for losses difficult to estimate, and include those items enumerated in the Supplementary Conditions.

11.8.3 These damages will continue to run both before and after termination in the event of default termination. These liquidated damages do not cover excess costs of completion or the Owner's costs, fees, and charges related to re-procurement.

11.8.4 If a default termination occurs, the Contractor or his Surety shall pay in addition to these damages, all excess costs and expenses related to completion as provided by Article 14.2.9.

## **12. ARTICLE 12 - QUALITY ASSURANCE:**

### **12.1 WARRANTY AND GUARANTY:**

12.1.1 The Contractor warrants and guarantees to the Owner that all Work will be in accordance with the Contract Documents and will not be Defective.

12.1.2 Prompt notice of all defects shall be given to the Contractor. All Defective Work, whether or not in place, may be rejected, corrected or accepted as provided for in this Article.

### **12.2 ACCESS TO WORK:**

12.2.1 The Owner and the Owner's representatives, testing agencies and governmental agencies with jurisdiction interests will have access to the Work at reasonable times for their observation, inspecting and testing. The Contractor shall provide proper and safe conditions for such access.

### **12.3 TESTS AND INSPECTIONS:**

12.3.1 The Contractor shall give the Owner timely notice of readiness of the Work for all required inspections, tests or Approvals.

12.3.2 If Regulatory Requirements of any public body having jurisdiction require any Work (or part thereof) to specifically be inspected, tested or approved, the Contractor shall assume full responsibility therefor, pay all costs in connection therewith and furnish the Owner the required certificates of inspection, testing or Approval.

12.3.3 The Contractor shall also be responsible for and shall pay all costs in connection with any inspection or testing required in connection with Owner's acceptance of a supplier of materials or equipment proposed to be incorporated in the Work, or of materials or equipment submitted for Approval prior to the Contractor's purchase thereof for incorporation in the Work.

12.3.4 The cost of all inspections, tests and Approvals in addition to the above which are required by the Contract Documents shall be paid by the Contractor.

12.3.5 The Owner may perform additional tests and inspections which it deems necessary to insure quality control. All such failed tests or inspections shall be at the Contractor's expense.

12.3.6 If any Work (including the Work of others) that is to be inspected, tested or approved is covered without written concurrence of the Owner, it must, if requested by the Owner, be uncovered for observation.

12.3.7 Such uncovering shall be at the Contractor's expense unless the Contractor has given the Owner timely notice of Contractor's intention to cover the same and the Owner has not acted with reasonable promptness in response to such notice.

12.3.8 Neither observations nor inspections, test or Approvals by the Owner of others shall relieve the Contractor from the Contractor's obligations to perform the Work in accordance with the Contract Documents.

### **12.4 UNCOVERING WORK:**

12.4.1 If any Work is covered contrary to the written request of the Owner, it must, if requested by the

Owner, be uncovered for the Owner's observation and replaced at the Contractor's expense.

12.4.2 If the Owner considers it necessary or advisable that covered Work be observed, inspected or tested, the Contractor, at the Owner's request, shall uncover, expose or otherwise make available for observation, inspection or testing as the Owner may require, that portion of the Work in question, furnishing all necessary labor, material and equipment.

12.4.3 If it is found that such Work is Defective, the Contractor shall bear all direct, indirect and consequential costs of such uncovering, exposure, observation, inspection and testing and of satisfactory reconstruction, (including but not limited to fees and charges of engineers, architects, attorneys and other professional) and the Owner shall be entitled to an appropriate decrease in the Contract Amount.

12.4.4 If, however, such Work is not found to be Defective, the Contractor shall be allowed an increase in the Contract Amount or an extension of the Contract Time, or both, directly attributable to such uncovering, exposure, observation, inspection, testing and reconstruction.

## **12.5 OWNER MAY STOP THE WORK:**

12.5.1 If the Work is Defective, or the Contractor fails to supply suitable materials or equipment, or fails to furnish or perform the Work in such a way that the completed Work will conform to the Contract Documents, the Owner may order the Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, this right of the Owner to stop the Work shall not give rise to any duty on the part of the Owner to exercise this right for the benefit of the Contractor or any other party.

## **12.6 CORRECTION OR REMOVAL OF DEFECTIVE WORK:**

12.6.1 If required by the Owner, the Contractor shall promptly, as directed, either correct all Defective Work, whether or not fabricated, installed or completed, or, if the Work has been rejected by the Owner, remove it from the site and replace it with Work which conforms to the requirements of the Contract Documents. The Contractor shall bear all direct, indirect and consequential costs of such correction removal (including but not limited to fees and charges of engineers, architects, attorneys and other professionals) made necessary thereby.

## **12.7 ONE YEAR CORRECTION PERIOD:**

12.7.1 If within one year after the date of Final Completion or such longer period of time as may be prescribed by Regulatory Requirements or by the terms of any applicable special guarantee required by the Contract Documents or by any specific provision of the Contract Documents, any Work is found to be Defective, the Contractor shall promptly, without cost to the Owner and in accordance with the Owner's written instructions, either correct such Defective Work, or, if it has been rejected by the Owner, remove it from the site and replace it with conforming Work.

12.7.2 If the Contractor does not promptly comply with the terms of such instructions, or in an emergency where delay would cause serious risk of loss or damage, the Owner may have the Defective Work corrected or the rejected Work removed and replaced, and all direct, indirect and consequential costs of such removal and replacement (including but not limited to fees and charges of engineers, architects, attorneys and other professionals) will be paid by the Contractor.

12.7.3 In special circumstances where a particular item of equipment is placed in continuous service for the benefit of the Owner before Substantial Completion of all the Work, the correction period for the item may begin on an earlier date if so provided in the Specifications or by Change Order.

12.7.4 Provisions of this paragraph are not intended to shorten the Statute of Limitations for bringing an action.

## **12.8 ACCEPTANCE OF DEFECTIVE WORK:**

12.8.1 Instead of requiring correction or removal and replacement of Defective Work, the Owner may accept Defective Work, and in this event, the Contractor shall bear all direct, indirect and consequential costs attributable to the Owner's evaluation of and determination to accept such Defective Work (costs to include but not be limited to fees and charges of engineers, architects, attorneys and other professionals).

12.8.2 If any such acceptance occurs prior to Final payment, a Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to the Work and the Owner shall be entitled to an appropriate decrease in the Contract Amount.

12.8.3 If the Owner has already made Final payment to the Contractor, an appropriate amount shall be paid by the Contractor or his Surety to the Owner.

## **12.9 OWNER MAY CORRECT DEFECTIVE WORK:**

12.9.1 If the Contractor fails within a reasonable time after written notice from the Owner to proceed to correct Defective Work or to remove and replace rejected Work as required by the Owner in accordance with paragraph 12.6, or if the Contractor fails to perform the Work in accordance with the Contract Documents, or if the Contractor fails to comply with any other provision of the Contract Documents, the Owner may, after seven days' written notice to the Contractor, correct and remedy any such deficiency. In exercising the rights and remedies under this paragraph the Owner shall proceed expeditiously.

12.9.2 To the extent necessary to complete corrective and remedial action, the Owner may exclude the Contractor from all or part of the site, take possession of all or part of the Work, and suspend the Contractor's services related thereto, take possession of the Contractor's tool, appliances, construction equipment and machinery at the site and incorporate in the Work all materials and equipment stored at the site or approved remote storage sites or for which the Owner has paid the Contractor but which are stored elsewhere, the Contractor shall allow the Owner and his authorized representatives such access to the site as may be necessary to enable the Owner to exercise the rights and remedies under this paragraph.

12.9.3 All direct, indirect and consequential costs of the Owner or its agents in exercising such rights and remedies will be charged against the Contractor, and a Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to the Work and the Owner shall be entitled to an appropriate decrease in the Contract Amount.

12.9.4 Such direct, indirect and consequential costs will include but not be limited to fees and charges of engineers, architects, attorneys and other professionals, all court and arbitration costs and all cost of repair and replacement of Work of others destroyed or damaged by correction, removal or replacement of the Contractor's Defective Work.

12.9.5 The Contractor shall not be allowed an extension of the Contract Time because of any delay in performance of the Work attributable to the exercise by the Owner of the Owner's rights and remedies hereunder.

## **13. ARTICLE 13 - PAYMENTS TO CONTRACTOR AND COMPLETION:**

### **13.1 SCHEDULE OF VALUES:**

13.1.1 The Schedule of Values established as provided in paragraph 6.6 will serve as the basis for progress payments and will be incorporated into a form of Application for Payment acceptable to the Owner. Progress payments on account of Unit Price Work will be based on the number of units completed.

### **13.2 PRELIMINARY PAYMENTS:**

13.2.1 Upon Approval of the Schedule of Values the Contractor may be paid for direct costs substantiated by paid invoices and other prerequisite documents required by the Contract Documents. Direct costs shall include the cost of Bonds, insurance, approved materials stored on the site or at approved remote storage sites, deposits required by a supplier prior to fabricating materials, and other approved direct mobilization costs substantiated as indicated above. These payments shall be included as a part of the total Contract Amount as stated in the Contract.

### **13.3 APPLICATION FOR PROGRESS PAYMENT:**

13.3.1 The Contractor shall submit to the Owner for review an Application for Payment filled out and signed by the Contractor covering the Work completed as of the date of the Application for Payment and accompanied by such supporting documentation as required by the Contract Documents.

13.3.2 Progress payments will be made as the Work progresses on a monthly basis.

### **13.4 REVIEW OF APPLICATION FOR PROGRESS PAYMENT:**

13.4.1 Owner will, either indicate in writing a recommendation of payment, or return the Application for Payment to the Contractor indicating in writing the Owner's reasons for refusing to recommend payment.

13.4.2 If the latter case, the Contractor may make the necessary corrections and resubmit the Application for Payment.



### **13.5 STORED MATERIALS AND EQUIPMENT:**

13.5.1 If payment is requested on the basis of materials and equipment not incorporated in the Work but delivered and suitably stored at the site or at another location agreed to in writing, the Application for Payment shall also be accompanied by a bill of sale, invoice or other documentation warranting that the Owner has received the materials and equipment free and clear of all charges, security interests and encumbrances and evidence that the materials and equipment are covered by appropriate property insurance and other arrangements to protect the Owner's interest therein, all of which will be satisfactory to the Owner.

13.5.2 No payment will be made for perishable materials that could be rendered useless because of long storage periods.

13.5.3 No progress payment will be made for living plant materials until planted.

13.5.4 The payment may be reduced by an amount equal to transportation and handling cost if the materials are stored offsite, in a remote location, or will require special handling.

### **13.6 CONTRACTOR'S WARRANTY OF TITLE:**

13.6.1 The Contractor warrants and guarantees that title to all Work, materials and equipment covered by any Application for Payment, whether incorporated in the Project or not, will pass to the Owner no later than the time of payment free and clear of any claims, liens, security interests and further obligations.

### **13.7 WITHHOLDING OF PAYMENTS:**

13.7.1 The Owner may withhold or refuse payment for any of the reasons listed below provided it gives written notice of its intent to withhold and of the basis for withholding:

13.7.2 The Work is Defective, or completed Work has been damaged requiring correction or replacement, or has been installed without Approval of Shop Drawings, or by an unapproved subcontractor.

13.7.3 The Contract Amount has been reduced by Change Order.

13.7.4 The Owner has been required to correct Defective Work or complete Work in accordance with paragraph 12.9.

13.7.5 The Owner's actual knowledge of the occurrence of any of the events enumerated in subparagraphs 14.2.1.1 through 14.2.1.11 inclusive.

13.7.6 Claims have been made against the Owner or against the funds held by the Owner on account of the Contractor's actions or inactions in performing this Contract, or there are other items entitling the Owner to a set off.

13.7.7 Subsequently discovered evidence or the results of subsequent inspections or tests, nullify any previous payments for reasons stated in subparagraphs 13.7.1 through 13.7.5.

13.7.8 The Contractor has failed to fulfill or is in violation of any of his obligations under any provision of this Contract.

### **13.8 RETAINAGE:**

13.8.1 At any time the Owner finds that satisfactory progress is not being made it may in addition to the amounts withheld under 13.7 retain a maximum amount equal to 10% of the total amount earned on all subsequent progress payments.

13.8.2 This retainage may be released at such time as the Owner finds that satisfactory progress is being made.

### **13.9 REQUEST FOR RELEASE OF FUNDS:**

13.9.1 If the Contractor believes the basis for withholding is invalid or no longer exists, immediate written notice of the facts and Contract provisions on which the Contractor relies, shall be given to the Owner, together with a request for release of funds and adequate documentary evidence proving that the problem has been cured.

13.9.2 In the case of withholding which has occurred at the request of the Department of Labor, the Contractor shall provide a letter from the Department of Labor stating that withholding is no longer requested.

13.9.3 Following such a submittal by the Contractor, the Owner shall have a reasonable time to investigate and verify the facts and seek additional assurances before determining whether release of withheld payments is justified.



### **13.10 SUBSTANTIAL COMPLETION:**

13.10.1 When the Contractor considers the Work ready for its intended use the Contractor shall notify the Owner in writing that the Work of a designated portion thereof is substantially complete (except for items specifically listed by the Contractor as incomplete) and request that the Owner issue a certificate of Substantial Completion.

13.10.2 Within a reasonable time thereafter, the Owner, the Contractor and appropriate Consultant(s) shall make an inspection of the Work to determine the status of completion.

13.10.3 If the Owner does not consider the Work substantially complete, the Owner will notify the Contractor in writing giving the reasons therefor. If the Owner considers the Work substantially complete, the Owner will within fourteen days execute and deliver to the Contractor a certificate of Substantial Completion with a tentative list of items to be completed or corrected.

13.10.4 At the time of delivery of the certificate of Substantial Completion the Owner will deliver to the Contractor a written division of responsibilities pending Final Completion with respect to security, operation, safety, maintenance, heat, utilities, insurance and warranties which shall be consistent with the terms of the Contract Documents.

13.10.5 The Owner shall be responsible for all Owner costs resulting from the initial inspection and the first re-inspection, and the Contractor shall pay all costs incurred by the Owner resulting from re-inspections, thereafter.

### **13.11 ACCESS FOLLOWING SUBSTANTIAL COMPLETION:**

13.11.1 The Owner shall have the right to exclude the Contractor from the Work after the date of Substantial Completion, but the Owner shall allow Contractor reasonable access to complete or correct items on the tentative list.

### **13.12 FINAL INSPECTION:**

13.12.1 Upon written notice from the Contractor that the entire Work or an agreed portion thereof is complete, the Owner will make a Final inspection with the Contractor and appropriate Consultants and will notify the Contractor in writing of all particulars in which this inspection reveals that the Work is incomplete or Defective.

13.12.2 The Contractor shall immediately take such measures as are necessary to remedy such deficiencies.

13.12.3 The Contractor shall pay for all costs incurred by the Owner resulting from re-inspections.

### **13.13 FINAL APPLICATION FOR PAYMENT:**

13.13.1 After the Contractor has completed all such corrections to the satisfaction of the Owner and delivered all maintenance and operating instructions, schedules, guarantees, bonds, certificates of payment to all laborers, subcontractors and Suppliers, certificates of inspection, marked-up record documents and other documents all as required by the Contract Documents, and after the Owner has indicated that the Work is acceptable (subject to the provisions of paragraph 13.16), the Contractor may make application for Final payment following the procedure for progress payments.

13.13.2 The Application for Final Payment shall be accompanied by all certificates, warranties, guaranties, releases, affidavits, and other documentation required by the Contract Documents.

### **13.14 FINAL PAYMENT AND FINAL COMPLETION:**

13.14.1 If on the basis of the Owner's observation of the Work during construction and Final inspection, and the Owner's review of the Application for Final Payment and accompanying documentation all as required by the Contract Documents, the Owner is satisfied that the Work has been completed and the Contractor's other obligations under the Contract Documents have been fulfilled, the Owner will process Application for Final Payment.

13.14.2 Otherwise, the Owner will return the Application for Final Payment to the Contractor, indicating in writing the reasons for refusing to process Final payment, in which case the Contractor shall make the necessary corrections and resubmit the Application for Final Payment.

13.14.3 If, through no fault of the Contractor, Final Completion of the Work is significantly delayed, the Owner shall, upon receipt of the Contractor's Final Application for Payment, 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 to be held by the Owner for Work not fully completed or corrected is less than the retainage provided

for in paragraph 13.8, and if Bonds have been furnished as required in paragraph 5.1, the written consent of the Surety to the payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by the Contractor to the Owner with the application for such payment.

13.14.4 Such payment shall be made under the terms and conditions governing Final Payment, except that it shall not constitute a waiver of claims.

**13.15 FINAL ACCEPTANCE:**

13.15.1 Following receipt of the Contractor's Release with no exceptions, and certification that laborers, subcontractors and material men have been paid, certification of payment of payroll and revenue taxes, and Final payment to the Contractor, the Owner will issue a letter of Final Acceptance, releasing the Contractor from further obligations under the Contract, except as provided in paragraph 13.16.

**13.16 CONTRACTOR'S CONTINUING OBLIGATION:**

13.16.1 The Contractor's obligation to perform and complete the Work and pay all laborers, subcontractors, and material men in accordance with the Contract Documents shall be absolute.

13.16.2 Neither any progress or Final payment by the Owner, nor the issuance of a certificate of Substantial Completion, nor any use or occupancy of the Work or any part thereof by the Owner, nor any act of acceptance by the Owner nor any failure to do so, nor any review and Approval of a Shop Drawing or sample submission, nor any correction of Defective Work by the Owner will constitute an acceptance of Work not in accordance with the Contract Documents or a release of the Contractor's obligation to perform the Work in accordance with the Contract Documents.

**13.17 WAIVER OF CLAIMS BY CONTRACTOR:**

13.17.1 The making and acceptance of Final payment will constitute a waiver of all claims by the Contractor against the Owner other than those previously made in writing and still unsettled.

**13.18 NO WAIVER OF LEGAL RIGHTS:**

13.18.1 The Owner shall not be precluded or be estopped by any payment, measurement, estimate, or certificate made either before or after the completion and acceptance of the Work and payment therefor, from showing the true amount and character of the Work performed and materials furnished by the Contractor, nor from showing that any payment, measurement, estimate or certificate is untrue or is incorrectly made, or that the Work or materials are Defective.

13.18.2 The Owner shall not be precluded or estopped, not with standing any such measurement, estimate, or certificate and payment in accordance therewith, from recovering from the Contractor or his Sureties, or both, such damages as it may sustain by reason of Contractor's failure to comply with requirements of the Contract Documents.

13.18.3 Neither the acceptance by the Owner, or any representative of the Owner, nor any payment for or acceptance of the whole or any part of the Work, nor any extension of the Contract Time, nor any possession taken by the Owner, shall operate as a waiver of any portion of the Contract or of the power herein reserved, or of any right to damages.

13.18.4 A waiver by the Owner of any breach of the Contract shall not be held to be a waiver of any other subsequent breach.

**13.19 DEDUCTIONS:**

13.19.1 The Owner may deduct from the amount of any payment made to the Contractor any sums owed to the Owner by the Contractor including but not limited to:

13.19.1.1 Past due sales tax,

13.19.1.2 port and harbor fees,

13.19.1.3 property tax or rent.

13.19.2 Before making any such deductions, the Owner shall have provided Contractor written notice of the amount claimed by the Owner to be due and owing from the Contractor.

**14. ARTICLE 14 - SUSPENSION OF WORK, DEFAULT AND TERMINATION:**

#### **14.1 OWNER MAY SUSPEND WORK:**

14.1.1 The Owner may, at any time suspend the Work or any portion thereof by notice in writing to the Contractor. If the Work is suspended without cause the Contractor shall be allowed an increase in the Contract Amount or an extension of the Contract Time, or both, directly attributable to any suspension if the Contractor makes an approved claim therefor as provided in Article 15.

14.1.2 However, no adjustment shall be made under this clause for any suspension, delay, or interruption to the extent that suspension is due to the fault or negligence of the Contractor, or that suspension is necessary for Contract compliance, or that performance would have been so suspended, delayed, or interrupted by any other cause, including the fault or negligence of the Contractor.

14.1.3 In case of suspension of Work, the Contractor shall be responsible for preventing damage to or loss of any of the Work already performed and of all materials whether stored on or off the site or approved remote storage sites.

#### **14.2 DEFAULT OF CONTRACTOR:**

14.2.1 If the Contractor:

14.2.1.1 Fails to begin the Work under the Contract within the time specified in the Contract Documents, or

14.2.1.2 Fails to perform the Work in accordance with the Contract Documents (including, but not limited to, failure to supply sufficient skilled workmen or suitable materials or equipment or failure to adhere to the progress schedule established under paragraph 6.6 as revised from time to time), or

14.2.1.3 Performs the Work unsuitably or neglects or refuses to remove materials or to correct Defective Work.

14.2.1.4 Discontinues the prosecution of the Work, or

14.2.1.5 Fails to resume Work which has been discontinued within a reasonable time after notice to do so, or

14.2.1.6 Becomes insolvent or is declared bankrupt, or commits any act of bankruptcy or insolvency except as prohibited by 11 U.S.C. 363, or

14.2.1.7 Allows any final judgment to stand against him unsatisfied for period of 60 days, or

14.2.1.8 Makes an assignment for the benefit of creditors without the consent of the Owner, or

14.2.1.9 Disregards Regulatory Requirements of any public body having jurisdiction, or

14.2.1.10 Otherwise violates in any substantial way any provisions of the Contract Documents,

or

14.2.1.11 For any cause whatsoever, fails to carry on the Work in an acceptable manner, the Owner may give notice in writing to the Contractor and his Surety of such delay, neglect, or default.

14.2.2 If the Contractor or Surety, within the time specified in the above Notice of Default, shall not proceed in accordance therewith, then the Owner may, upon written notification to the Contractor or Surety of the fact of such delay, neglect or default and the Contractor's failure to comply with such notice, have full power and authority without violating the Contract, to take the prosecution of the Work out of the hands of the Contractor.

14.2.3 The Owner may terminate the services of the Contractor, exclude the Contractor from the site and take possession of the Work and of all the Contractor's tools, appliances, construction equipment and machinery at the site and use the same to the full extent they could be used by the Contractor (without liability to the Contractor for trespass or conversion), incorporate in the Work all materials and equipment stored at the site or for which the Owner has paid the Contractor but which are stored elsewhere, and finish the Work as the Owner may deem expedient.

14.2.4 The Owner may enter into an agreement for the completion of said Contract according to the terms and provisions thereof, or use such other methods that in the opinion of the Owner are required for the completion of said Contract in an acceptable manner.

14.2.5 The Owner may, by written notice to the Contractor and his Surety or his representative, transfer the employment of the Work from the Contractor to the Surety, or if the Contractor abandons the Work undertaken under the Contract, the Owner may, at his option with written notice to the Surety and without any written notice to the Contractor, transfer the employment for said Work directly to the Surety.

14.2.6 The Surety shall submit its plan for completion of the Work, including any contracts or agreements with third parties for such completion, to the Owner for Approval prior to beginning completion of the Work. Approval of such Contracts shall be in accordance with all applicable requirements and procedures for Approval

of subcontracts as stated in the Contract Documents.

14.2.7 Upon receipt of the notice terminating the services of the Contractor, the Surety shall enter upon the premises and take possession of all materials, tools, and appliances thereon for the purpose of completing the Work included under the Contract and employ by contract or otherwise any person or persons to finish the Work and provide the materials therefor, without termination of the continuing full force and effect of this Contract.

14.2.8 In case of such transfer of employment to the Surety, the Surety shall be paid in its own name on estimates covering Work subsequently performed under the terms of the Contract and according to the terms thereof without any right of the Contractor to make any claim for the same or any part thereof.

14.2.9 If the Contract is terminated for default, the Contractor and the Surety shall be jointly and severally liable for damages for delay as provided by paragraph 11.8, and for the excess cost of completion, and all costs and expenses incurred by the Owner in completing the Work or arranging for completion of the Work, including but not limited to costs of assessing the Work to be done, costs associated with advertising, soliciting or negotiating for bids or proposals for completion, and other re-procurement costs.

14.2.10 Following termination the Contractor shall not be entitled to receive any further balance of the amount to be paid under the Contract until the Work is fully finished and accepted, at which time if the unpaid balance exceeds the amount due the Owner and any amounts due to persons for whose benefit the Owner has withheld funds, such excess shall be paid by the Owner to the Contractor.

14.2.11 If the damages, costs, and expenses due the Owner exceed the unpaid balance, the Contractor and his Surety shall pay the difference.

14.2.12 If, after notice of termination of the Contractor's right to proceed under the provisions of this clause, it is determined for any reason that the Contractor was not in default under the provisions of this clause, or that the delay was excusable under the provisions of this clause, or that termination was wrongful, the rights and obligations of the parties shall be determined in accordance with the clause providing for convenience termination.

### **14.3 RIGHTS OR REMEDIES:**

14.3.1 Where the Contractor's services have been so terminated by the Owner, the termination will not affect any rights or remedies of the Owner against the Contractor then existing or which may thereafter accrue.

14.3.2 Any retention or payment of moneys due the Contractor by the Owner will not release the Contractor from liability.

### **14.4 CONVENIENCE TERMINATION:**

14.4.1 The performance of the Work may be terminated by the Owner in accordance with this section in whole or in part, whenever, for any reason the Owner shall determine that such termination is in the best interest of the Owner.

14.4.2 Any such termination shall be effected by delivery to the Contractor of a Notice of Termination, specifying termination is for the convenience of the Owner the extent to which performance of Work is terminated, and the date upon which such termination becomes effective.

14.4.3 Immediately upon receipt of a Notice of Termination and except as otherwise directed by the Owner the Contractor shall:

14.4.3.1 Stop Work on the date and to the extent specified in the Notice of Termination;

14.4.3.2 Place no further orders or subcontracts for materials, services, or facilities except as may be necessary for completion of such portion of the Work as is not terminated;

14.4.3.3 Terminate all orders and subcontracts to the extent that they relate to the performance of Work terminated by the Notice of Termination;

14.4.3.4 With the written Approval of the Owner, to the extent he may require, settle all outstanding liabilities and all claims arising out of such termination of orders and subcontracts, the cost of which would be reimbursable, in whole, or in part, in accordance with the provisions of the Contract;

14.4.3.5 Submit to the Owner a list, certified as to quantity and quality, of any or all items of termination inventory exclusive of items the disposition of which had been directed or authorized by the Owner;

14.4.3.6 Transfer to the Owner the completed or partially completed record Drawings, Shop Drawings, information, and other property which, if the Contract had been completed, would be required to be furnished to the Owner;

14.4.3.7 Take such action as may be necessary, or as the Owner may direct, for the protection and preservation of the property related to the Contract which is in the possession of the Contractor and in which the Owner has or may acquire any interest.

14.4.4 The Contractor shall proceed immediately with the performance of the above obligations.

14.4.5 When the Owner orders termination of the Work effective on a certain date, all Work in place as of that date will be paid for in accordance with the Basis of Payment clause of the Contract.

14.4.6 Materials required for completion and on hand but not incorporated in the Work will be paid for at cost plus 15% with materials becoming the property of the Owner or the Contractor may retain title to the materials and be paid an agreed upon lump sum.

14.4.7 Materials on order shall be canceled, and the Owner shall pay reasonable factory cancellation charges with the option of taking delivery of the materials in lieu of payment of cancellation charges.

14.4.8 The Contractor shall be paid 10% of the cost, freight not included, of materials canceled, and direct expenses only for Contractor chartered freight transport which cannot be canceled without charges, to the extent that the Contractor can establish them.

14.4.9 The extra costs due to cancellation of Bonds and insurance and that part of job start-up and phase-out costs not amortized by the amount of Work accomplished shall be paid by the Owner.

14.4.10 Charges for loss of profit or consequential damages shall not be recoverable except as provided above.

14.4.11 The termination claim shall be submitted promptly, but in no event later than 90 days from the effective date of termination, unless one or more extensions in writing are granted by the Owner upon request of the Contractor made in writing within the 90 day period.

14.4.12 Upon failure of the Contractor to submit his termination claim within the time allowed, the Owner may determine, on the basis of information available to him, the amount, if any, due to the Contractor by reason of the termination and shall thereupon pay to the Contractor so determined.

14.4.13 The Contractor and the Owner may agree upon whole or any part of the amount or amounts to be paid to the Contractor by reason of the total or partial termination of the Work pursuant to paragraph 14.4.

14.4.14 The Contract shall be amended accordingly, and the Contractor shall be paid the agreed amount. In the event of the failure of the Contractor and the Owner to agree in whole or in part, as provided heretofore, as to the amounts with respect to costs to be paid to the Contractor in connection with the termination of the Work the Owner shall determine, on the basis of information available to him, the amount, if any, due to the Contractor by reason of the termination and shall pay to the Contractor the amount determined as follows:

14.4.14.1 All costs and expenses reimbursable in accordance with the Contract not previously paid to the Contractor for the performance of the Work prior to the effective date of the Notice of Termination;

14.4.14.2 So far as not included above, the cost of settling and paying claims arising out of the termination of the Work under subcontracts or orders which are properly chargeable to the terminated portions of the Contract;

14.4.14.3 The reasonable costs of settlement with respect to the terminated portion of the Contract heretofore, to the extent that these costs have not been covered under the payment provisions of the Contract.

14.4.15 The Contractor shall have the right of appeal under the Owner's claim procedures, as defined in Article 15, for any determination made by the Owner, except if the Contractor has failed to submit his claim within the time provided and has failed to request an extension of such time, Contractor shall have no such right of appeal. In arriving at the amount due the Contractor under this section, there shall be deducted:

14.4.15.1 All previous payments made to the Contractor for the performance of Work under the Contract prior to termination;

14.4.15.2 Any claim for which the Owner may have against the Contractor;

14.4.15.3 The agreed price for, or the proceeds of sale of, any materials, supplies, or other things acquired by the Contractor or sold pursuant to the provisions of this section and not otherwise recovered by or credited to the Owner; and,

14.4.15.4 All progress payments made to the Contractor under the provisions of this section.

14.4.16 Where the Work has been terminated by the Owner said termination shall not affect or terminate any of the rights of the Owner against the Contractor or his Surety then existing or which may thereafter accrue because of a default.

14.4.17 Any retention or payment of monies by the Owner due to the Contractor under the terms of the Contract shall not release the Contractor or his Surety from liability.



14.4.18 Unless otherwise provided for in the Contract Documents, or by applicable statute, the Contractor, from the effective date of termination and for a period of three years after final settlement under this Contract, shall preserve and make available to the Owner at all reasonable times at the office of the Contractor, all its books, records, documents, and other evidence bearing on the cost and expenses of the Contractor under this Contract and relating to the Work terminated hereunder.

## **15. ARTICLE 15 - CLAIMS AND DISPUTES:**

### **15.1 NOTIFICATION:**

15.1.1 In addition to the notice requirements set out elsewhere in this Contract, if the Contractor becomes aware of any act or occurrence which may form the basis of a claim by the Contractor for additional compensation or an extension of time for performance, or if any dispute arises regarding a question of fact or interpretation of the Contract, the Contractor shall immediately inform the Project Manager.

15.1.2 If the matter cannot be resolved by agreement within 7 days, the Contractor shall, within the next 14 days, submit an Intent to Claim in writing to the Project Manager.

15.1.3 The Claim, if not resolved, shall be presented to the Project Manager, in writing, within 60 days following receipt of the Intent to Claim.

15.1.4 Receipt of the Claim will be acknowledged in writing by the Project Manager.

15.1.5 The Contractor agrees that unless these written notices are provided, the Contractor will have no entitlement to additional time or compensation for such act, event or condition.

15.1.6 The Contractor shall in any case continue diligent performance of the Contract.

### **15.2 PRESENTING CLAIM:**

15.2.1 The Claim shall be submitted in accordance with ARRC Procurement Rule 1800.12 and shall specifically include the following:

15.2.1.1 The act, event or condition giving rise to the claim.

15.2.1.2 The Contract provisions which apply to the claim and under which relief is provided.

15.2.1.3 The item or items of Contract Work affected and how they are affected.

15.2.1.4 The specific relief requested, including additional Contract Time if applicable, and the basis upon which it was calculated.

### **15.3 CLAIM VALIDITY, ADDITIONAL INFORMATION, & PROJECT MANAGER'S ACTIONS:**

15.3.1 The Claim, in order to be valid, must not only show that the Contractor suffered damages or delay but that those conditions were actually a result of the act, event or condition complained of and that the Contract provides entitlement to relief to the Contractor for such act, event, or condition.

15.3.2 The Project Manager reserves the right to make written request to the Contractor at any time for additional information which the Contractor may possess relative to the Claim.

15.3.3 The Contractor agrees to provide the Project Manager such additional information within 30 days of receipt of such a request. Failure to furnish such additional information may be regarded as a waiver of the Claim.

15.3.4 The Claim, if not resolved by agreement within 60 days of its receipt, will automatically be forwarded to the Owner for formal written decision.

### **15.4 OWNER'S DECISION:**

15.4.1 The Contractor will be furnished the Owner's Decision within the next 90 days, unless additional information is requested by the Owner.

15.4.2 The Owner's Decision is final and conclusive unless fraudulent as to the Claim.

### **15.5 NOTICE OF APPEAL:**

15.5.1 Within 14 days of receipt of the Owner's Decision, the Contractor may deliver a Notice of Appeal to the Owner in accordance with ARRC Procurement Rule 1800.13 and request a hearing.

15.5.2 The Notice of Appeal shall include specific exceptions to the Owner's Decision, including specific provisions of the Contract, which the Contractor intends to rely upon in the appeal.



15.5.3 General assertions that the Owner's Decision is contrary to law or to fact are not sufficient.

**15.6 OWNER'S DECISION ON APPEAL:**

15.6.1 The decision of the Owner on appeal will be rendered within 90 days after the conclusion of a hearing conducted under ARRC Procurement Rule 1800.15 or the date of receipt of the Notice of Appeal, whichever is later.

15.6.2 The time limits given above may be extended by mutual consent.

15.6.3 The decision of the Owner on appeal shall be final and conclusive unless the Contractor appeals to the superior court in accordance with ARRC Procurement Rule 1800.18.

**16. ARTICLE 16 - MISCELLANEOUS:**

**16.1 GOVERNING LAW:**

16.1.1 This Contract shall be governed by the laws of the State of Alaska and the provisions of ARRC's Procurement Rules.

**16.2 CONTRACT CLAUSES:**

16.2.1 If any contract clause is declared null and void, then all other clauses shall remain in force.

END OF SECTION

## **APPENDIX F** – Supplemental Conditions

### **SC-01 – Basis of Payment**

Payment will be made for work performed in accordance with project drawings and these specifications. Payment shall be made only for the actual quantity of work completed. Contractor shall provide invoices with sufficient detail to support progress payments and include ARRC assigned Contract number. Final payment will be made upon final acceptance of the work by ARRC, receipt of warranties and Alaska Department of Labor Notice of Completion.

Monthly progress payments to the Contractor based on estimate of the value of work performed and materials on hand under subsection 109-1.07 of the 2020 edition of the Alaska Department of Transportation and Public Facilities **Standard Specifications for Highway Construction (SSHC)**. At the Owner's discretion, a progress payment may be made twice monthly if the value of the estimate exceeds \$10,000.00. Request for payments must be made to the Owner via an approved format and bi-monthly payment requests must be made in writing on, or before, the pre-construction meeting.

### **SC-02 – Section 240, Railroad**

**240-1.01 DESCRIPTION.** The Contractor shall be responsible for all railroad trackwork and construction items associated with this Project within the limits shown on the Plans. All work on ARRC property shall be conducted in strict accordance with the requirements contained herein and in subsection 107-1.08 "*RAILWAY HIGHWAY PROVISIONS*" of the 2020 edition of the SSHC. Unless otherwise specified, all track materials and work methods shall comply with the applicable standards contained herein.

#### **240-1.02 DEFINITIONS.**

1. ARRC. Alaska Railroad Corporation.
2. AREMA. American Railway Engineering and Maintenance-of-Way Association.
3. W.C.L.I.B. West Coast Lumberman's Inspection Bureau.
4. FRA. Federal Railroad Administration.

#### **240-1.03 REFERENCED STANDARDS.**

1. ARRC Standard Plans.
2. AREMA Manual for Railway Engineering
3. AREMA Portfolio of Trackwork Plans
4. All standards listed in each section of these specifications but referenced thereafter by a basic designation only (e.g., *AREMA*), form a part of the specifications to the extent indicated by the reference. The most recent edition of the standard at the time of advertising shall apply.

**240-1.04 REFERENCED DRAWINGS.** Drawings are incorporated by reference herein and made a part of these specifications.

**240-1.05 STORAGE.** Storage facilities shall be in areas designated by the Owner or Owner's Representative.

**240-1.06 CLEAN-UP.** At the end of each day's Work, the job site shall be cleaned up and left in a neat, safe, secure, and workman-like condition.

Before requesting a final inspection, the entire premises shall be cleaned up to the satisfaction of the Owner.

**240-1.07 SURVEYING.** All surveying work necessary for the performance of this project shall be furnished by the Contractor in accordance with Section 642.

**240-1.08 OWNERSHIP.** All removed track materials (rails, ties, other track materials) will become the property of the Contractor, except as noted on the Plans or in the Contract Documents. All track materials that become the property of the Contractor shall be removed from the project area and disposed of in a Contractor-furnished waste disposal site in accordance with all federal, local, state, and tribal regulations; removal and disposal shall be before Substantial Completion unless otherwise approved by the Owner.

**SC-03 – Section 241, Railroad Ballast**

**241-1.01 DESCRIPTION.** The Owner shall furnish Type 3 Ballast at the Whittier Yard. The Contractor shall be responsible for placing, tamping and shaping railroad ballast and surfacing and lining new and existing track and turnouts, in conformance with the lines, grades and thickness' shown on the Plans.

**241-2.01 MATERIALS.** The Owner will supply Type 3 ballast that conforms with the below specification. Prepared ballast shall be crushed shot rock or crushed pit-run rock, size No. 3, composed of hard, strong and durable particles, free from injurious amounts of deleterious substances and conforming to the following requirements:

Property	Test Method	Limits
Bulk Specific Gravity (SSD)	AASHTO T 85	2.65 min.
Absorption	ASTM C 97	2% max
L.A. Abrasion	AASHTO T 96	50% max. loss after 500 revs.
Freeze/Thaw	ASTM D 5312	5% max. loss after 100 cycles
Wet/Dry	ASTM D 5313	1% max. loss
Degradation	ATM 313	40 min.

**Table 1** – Rock Quality Tests

Test	Procedure	Standard	Frequency
Sampling Aggregate	ASTM D7 5 & ASTM C 702	As required	1 per 1,000 tons
Sieve Analysis	ATM 304, Method A	See Table 3 Below	1 per 1,000 tons
Flat and/or Elongated Particles	USACE CRD-C119	5.0% max.	1 per 1,000 tons
Clay Lumps & Friable Particles	ASTM C 142	0.5% max.	1 per 1,000 tons
Fractured Particles	ASTM D5821	80% min., two face	1 per 1,000 tons
Bulk Specific Gravity (SSD)	AASHTO T 85	2.65 min.	1 per source
Absorption	ASTM C 97	2% max.	1 per source
Magnesium Sulfate Soundness	ASTM C88 (Five Cycles)	1% max.	1 per source
L.A. Abrasion	AASHTO T 96	50% max. loss after 500 revolutions	1 per source

**Table 2** – Testing Procedures, Standards, and Frequencies for ARRC Type 3 Ballast

Sieve Opening	2-1/2"	2"	1-1/2"	1"	1/2"	3/8"	No. 200
Percent (%) Passing	100	95-100	35-70	0-15	0-10	0-3	0-0.3

**Table 3** – ARRC Type 3 Ballast Broad Band Gradation

Manufacturing, Handling, Delivery, and Stockpiling of Material. The ballast shall be manufactured, handled, delivered, stockpiled, and placed in such a manner that it is kept clean and free from segregation. Processed ballast shall be washed and/or rescreened as necessary to remove fine particle contamination as defined by the specification prior to stockpiling. Stockpiling of ballast will only be allowed over firm stable base areas. In order to minimize segregation ballast shall be stockpiled in more or less horizontal layers with no dumping over the sides of the stockpile allowed. Travel of construction machinery and other vehicles over the top of the stockpiles shall be kept at a minimum. Contractor will be responsible for the control of dust when hauling to and from stockpile.

## **CONSTRUCTION REQUIREMENTS**

241-3.01 GENERAL. Ballast dumped on subgrade prior to track or turnout construction shall be kept free from material tracked in by construction equipment. Ballast dumped on skeleton track and turnouts shall be distributed uniformly during the dumping operation to minimize the carrying or regulating required to provide the designed ballast section.

Contractor shall submit their plan for handling and placing ballast. This plan shall include source, type of equipment to be used (*e.g., HyRail dump truck*), location of stockpiles, and method of distribution.

### 241-3.02 BALLAST PLACEMENT.

1. Ballast shall be placed to the lines and grades indicated. The average thickness shall be within one-quarter inch of the thickness shown on the drawings. Ballast shall not be placed on soft, muddy, or frozen areas. Where the prepared subgrade (*roadbed*) is soft, muddy, rutted, exhibits severe depressions, or is otherwise damaged, the ballast shall not be placed until the damaged subgrade has been repaired and the Owner has approved the area.
2. Forming of ruts that would impair proper drainage shall be prevented when distributing ballast from trucks and off track equipment. Any ruts formed greater than one (1) inch shall be leveled and graded to drain.
3. Ballast shall be unloaded as close as possible to the point of use so that unnecessary handling is prevented. Excess ballast shall be picked up and redistributed at the Contractor's expense. Ballast shall be handled in such a manner as to ensure it remains clean of deleterious materials and within specifications.
4. Minimum Ballast Depth: The minimum depth of ballast below the bottom of the tie shall be 12 inches.

### 241-3.03 TRACK TAMPING, SURFACING AND FINAL DRESSING.

1. This work shall consist of shaping, tamping, surfacing and dressing of the ballast section on all new track and runoffs except that which is included in other work items. These work limits are shown on the plans as the anchoring limits.
2. Preliminary Surfacing. The preliminary alignment and surfacing gangs shall follow the unloading of the ballast. Rail and tie installation, spiking, bolt tightening, and ballast placement shall be complete prior to commencement of surfacing and alignment work.
3. Lifts. The track, after being aligned, shall be brought to grade, surfaced in lifts not to exceed four (4) inches each and tamped. When using jacks, they shall be placed close enough together to prevent undue bending of rail or stress of rail and joint. Both rails shall be raised at one time and as uniformly as possible, except where super-elevation is required. The track shall be lifted so

that after a period of not less than five (5) train operations after the last lift, it will be necessary to give the track a final lift of between one (1) and two (2) inches to bring it to grade.

4. Raising and tamping of track shall be performed with an automatic, vibratory, squeeze type power tamper with sixteen (16) tamping heads, capable of raising both rails simultaneously and maintaining cross level. The tamper shall be a Jackson 6700 Series, or an Owner-approved equal, truss type tamper with lift, line and surface capability. If the equipment selected by the Contractor differs from a Jackson 6700 Series, the Contractor must submit equipment make, model, and specifications to the Owner for approval and the equipment shall be subject to inspection and acceptance by the Owner. Every tie in the track shall receive two or more full insertions of the tamping heads. Ballast shall be power-tamped under both sides of ties from each end to a point fifteen (15) inches inside each rail for 8 foot-6 inch ties and eighteen (18) inches for 10 foot ties. The center shall be filled with ballast, but tamping shall not be permitted in the center of the tie between the above stated limits. Both ends of the ties shall be tamped simultaneously and tamping inside and outside of the rail shall be done at the same time. Tamping tools shall be worked opposite each other on the same tie. Ballast under switch ties and road crossing ties shall be tamped the entire length of each tie and care must be taken not to "center bind ties". All ties shall be tamped to provide solid bearing against the base of the rail after the track or turnout is raised to grade at final surfacing. All down ties shall be brought up to the base of rail and shall be machine tamped. The resultant track surface and alignment shall be uniform and smooth. Tamping of track in snow or frozen ballast conditions shall not be permitted.
5. Contractor shall prepare, for the Owner's review and approval, a detailed tamping procedure covering tamping equipment and methods. The specification shall include a complete description of equipment to be used and variables that can be adjusted such as:
  - a. Number of insertions of tamping tools per tie.
  - b. Number of passes of tamping machine.
  - c. Depth of penetration.
  - d. Lifting capacity.
  - e. Lining capacity.
  - f. Year, make and model of tamping machine.
6. Replacement of Ties. After tamping has been completed and the jacks removed, any damaged ties shall be removed and replaced. All ties pulled loose or replaced shall be restored to their proper position, re-spiked and re-tamped to provide full bearing against the rail, at no cost to the owner.
7. Runoff of Track Raises. The runoff at the end of a raise shall not exceed one quarter (1/4) inch in thirty-one (31) feet of track unless otherwise noted on the Plan and/or the Contract Documents, or as approved by the Owner.
8. Final Surfacing. After preliminary surfacing has been completed, grade and line stakes shall be checked and the track brought to final grade and alignment.
9. Final Tamping. Track shall be brought to grade and the ballast re-tamped in the manner described for preliminary surfacing, except that the tamping distance inside the rail shall be decreased from 12 to 10 inches for eight (8) foot ties, fifteen (15) to thirteen (13) inches for eight (8) foot-six (6) inch ties, and eighteen (18) to sixteen (16) inches for nine (9) foot and ten (10) foot ties.
  - a. After final tamping is complete, ballast shall be dressed to the section indicated with a Fairmont C154BR ballast regulator, or Owner-approved equal, and all ballast removed from the top of crossties, tie plates and base of rail by the ballast regulator broom. If the equipment

selected by the Contractor differs from a Fairmont C154BR, the Contractor must submit equipment make, model, and specifications to the Owner for approval.

10. Surplus ballast remaining after final surfacing and dressing of the ballast section shall be distributed or otherwise disposed of as directed by the Owner.
11. Upon completion of the work, the Contractor shall remove all rubbish, waste, and discarded materials generated by the work from the project area and dispose of the materials in a Contractor-furnished waste disposal site in accordance with all federal, local, state, and tribal regulations. Areas where the Contractor has worked, including but not limited to, project areas, material storage sites, and borrow or disposal areas shall be left in a clean, well-graded, and well-drained condition.
12. One hundred–eighty (180) calendar days after the track has been accepted and put into operation, the Contractor may be required to perform, at no additional cost to the Owner, any necessary resurfacing adjustments to leave the track in alignment and on grade.
13. Completed track shall meet the following tolerances. Track installed by the Contractor not meeting the tolerances specified below shall be repaired to meet said requirements, at no additional cost to the Owner.
  - a. Gauge. Track gauge shall be within plus or minus 1/8 inch of standard gauge.
  - b. Alignment. Alignment shall be measured as the deviation of the mid-offset of a 62 foot line, with the ends of the line at points on the gauge side of the line rail, 5/8 inch below the top of the railhead. Either rail may be used as the line rail on tangent track; however, the same rail shall be used for the entire length of the tangent. The outside rail in a curve is always the line rail. Alignment on tangents shall not deviate from uniformity more than 1/2 inch. Alignment on curves shall not deviate from uniformity more than 3/8 inches.
  - c. Track Surface. Track surface shall meet the following requirements:
    - i. The runoff at the end of a raise shall not exceed 1/4 inch for any 31 foot of rail.
    - ii. The deviation from design profile on either rail at the mid-ordinate of a 62 foot chord shall not exceed 1/4 inch.
    - iii. Deviation from design elevations on spirals shall not exceed 1/2 inch.
    - iv. Deviation from zero cross level at any point on tangent or from designated super-elevation on curves or spirals shall not exceed 1/8 inch.
    - v. The difference in cross level between any two points less than 62 foot apart on tangents, and on curves between spirals shall not exceed 1/8 inch.

#### **SC-04 – Section 242, Trackwork**

**242-1.01 DESCRIPTION**. This work consists of constructing skeleton yard track to the alignment and limits shown on the Plans.

**242-2.01 MATERIALS**. The Owner shall supply all track materials in the Whittier Yard to construct skeleton track. The material shall conform to the current AREMA "Manual for Railway Engineering" and as detailed in this specification.

1. **Premium/High Strength Rail**. Rail shall be 115 RE rail section (new or used), last hole blank and 78 to 80 feet in length. Rail shall either be head hardened or fully heat treated. Rail shall conform to the latest current AREMA Manual for Railway Engineering, Volume 1, Chapter 4, Rail, Specifications for Steel Rail and ARRC Standard Plan 3.1 with the clarifications listed below. The



bidder shall include with their bid response sufficient technical data to allow for a detailed evaluation of the product bid.

- a. Size. Per AREMA Chapter 4, Part 1, Figure 4-1-1, 115 RE Rail Section.
  - b. Drilling. Rail shall be last hole blank with two 1-1/4 in. diameter holes centered 2-7/8 in. above the base of the rail and 9-1/2 in. and 15-1/2 in. from each end of the rail. For use with 6-hole, 36-in. angle bars and 1-1/16 in. track bolts. Per AREMA.
  - c. Length. Per AREMA Chapter 4, Section 2.1 Article 11, standard length is 80 feet. Rail shorter than 74 feet in length will not be accepted. Rail shorter than 80 feet in length will not be accepted at crossing locations.
2. Angle Joint Bars. Angle joint bars shall be new 36 in. head free, standard toeless, 6 holes for use with 115 RE rail with hole spacing to fit rail drilling per AREMA Volume 1, Chapter 4, Section 2.8. Joint bars shall be quenched or medium carbon steel, rolled steel only, heat #16. Hole diameter shall be 1-1/8 in
3. Rail Anchors. In wood tie areas only. Use new rail anchors sized to conform to the rail and "Specifications for Rail Anchors" in Chapter 5, Part 7 of the AREMA Manual. Use Unit V, drive-on type rail anchors for 115 RE, no substitute. For 115 RE, width 1-3/32 in. x thickness 21/32 in. and weight 1.8 lb. Application shall be by a standard sledgehammer without the use of special tool or an anchor applicator to drive on. Packaging shall be in 50# bags containing 28 each with 75 bags per pallet, banded.
4. Tie Plates.
- a. Crossings and Switch. For 5-1/2 in. rail base for crossings and switches: Shall be PANDROL TPL-P26M, 5.5 x 7-3/4 in. x 15 in. with four 1 in. round holes and two 11/16 in. square holes. 1:40 cant.
  - b. Curve and Tangent. Shall be 7-3/4 in. x 14 in. x 5-1/2 in. with A-8 punching, 3/4 in. square holes. 1:40 cant.
  - c. Tie Plates. Tie plates may remain in place if they are in serviceable condition.
5. e-Clips. Shall be PANDROL Part Number ECL-2055 (right hand) for use with 115 RE rail and Pandrol tie plates.
6. j-Clips. For use on wood ties with angle joint bars. Shall be PANDROL Part Number J-clip.
7. Screw spikes. New, PANDROL, 15/16 in. x 6 in. SQ HD, Washer Type Part No. 6619, 1.1 pound each. For use with 13/16-in. socket. Packaged 50 to bag. Requires 3/4-in. diameter x 6-in. deep pre-bore in hardwood ties.
8. Track Bolts, Nuts & Washers. Bolts and nuts shall be new and manufactured in accordance with AREMA Volume 1, Chapter 4, Section 1.4 and 2.9. Bolts shall be 1-1/16 in. diameter x 6 inches long for a full nut, lock-washer and 2 threads exposed after tightening, but not to exceed a 1 in. exposure after tightening.
9. Nut-lock Washer (a.k.a. Spring Washer). New, to fit 115 RE rail with thread diameter of 1-1/16 in. Product must conform to current AREMA Specifications Volume 1, Chapter 4, Section 2.10 for Spring Washers and ARRC Standard Plan #7.0.
10. Wooden Cross Ties. Cross ties shall be treated, 7-in. x 9-in. x 10 ft and 7-in. x 9-in. x 8 1/2 ft. Cross ties shall be manufactured in accordance with the current AREMA Manual for Railway Engineering, Chapter 3; W.C.L.I.B. Grading Rules #17, paragraph 192b; and this specification. Hardwood ties shall be new.
- a. Timber. Cross ties shall be sawn from sound, straight live timber, free from any defect that might impair durability and/or strength. Multiples or combinations will not be accepted. Cross ties shall be cut square at the ends and have all bark that impairs treatability entirely removed.

- b. Stump Pull. Stump pulls will be graded the same as holes or splits in the end of a tie. Cross ties with a stump pull that goes into the interior more than 5 in. will be rejected.
- c. Wane. Cross ties shall have a minimum 8 in. face. Minimum face specifications apply to the entire length of the cross tie. All wane shall be free of bark.
- d. Knots. A knot exceeding in diameter 1/4 of the width of the surface on which it appears will be rejected if it occurs in the rail bearing area. Outside the rail bearing area, knots will be accepted up to a diameter of 1/3 of the surface on which they appear. A cluster of knots will be judged as being a large knot in damaging effect. Rail bearing area shall be defined as 20 in. to 40 in. from center of tie.
- e. Cross Grain. Any cross tie with cross grain exceeding one in fifteen will be rejected.
- f. Straightness. A cross tie will be considered straight when (1) a straight line along the top from middle of one end to middle of the other end is not closer than 3 in. from either side of tie, and (2) when a straight line along a side from middle on one end to the middle of the other end is everywhere more than 2 ½ in. from top or bottom of the tie.
- g. Bark. Any cross tie containing more than a minimal amount of ingrown bark will be rejected.
- h. Saw Kerf. A saw kerf is not required.
- i. Treatment. All treatment shall meet the specifications of the American Wood Preservers Association Standards Book C6 and the following guidelines. A treatment report shall be accurately completed for all charges and at a minimum shall contain the following:
  - i. Charge number
  - ii. Date
  - iii. Wood species and size
  - iv. Total retort time in hours
  - v. Conditioning time in hours
  - vi. Pressing time in hours
  - vii. Retention in pounds per cubic meter
  - viii. Average penetration to be shown for oak
  - ix. Initial air time, if applicable
  - x. Gauge readings and times
  - xi. Treating operator's signature
  - xii. Seasoned condition (dry or green), if green show moisture content.
  - xiii. Final Vacuum
  - xiv. Weight of solution at 100 °F
  - xv. Work tank number and cylinder number

The preservative shall consist of a mixture of 50 percent by volume of creosote oil and 50 percent by volume of residuum oil, 50/50 coal tar solution may also be used. Final readings shall be entered on the treating report.

- j. Care of Treated Wood. Extreme care shall be used in handling treated cross ties to avoid damage to the edges of the timbers or breaking through the treated portions and exposing untreated wood. The use of peavies, cant hooks, pickaroons, long hooks or pointed tools shall be such as not to break through the treated portion of the wood. If damage during handling which could potentially impair the longevity of material service life, this material shall then be retreated at the Contractor's expense. All cost associated with retreatment, including oil, shall be the responsibility of the Contractor.

- k. Boring. All cross ties shall be bored and adzed in conformance to the ARRC Standard Tie Boring and Adzing Plan 1.13. Adzing may be deleted if vendor will certify that ties furnished will be flat and provide a uniform bearing surface for the tie plates.
- l. Anti-splitting Devices. All hardwood cross ties shall have steel multi-nail anti-splitting end plates in accordance with the current AREMA Manual of Railway Engineering, Chapter 3, Section 1.8 titled "Ties and Wood Preservation", Section 1.9.2.3 titled "Nail Plates", and Section 1.10.3 titled "Nail Plates".
- m. Species. Acceptable hardwood species are Red Oak, White Oak, Hickory, Black Walnut, Gum, Beech, Ash, White Heart Sycamore, Hackberry and Hard Maple.

242-3.01 CONSTRUCTION REQUIREMENTS. Track construction shall be performed in accordance with the current ARRC Standards, AREMA Manual for Railway Engineering, and as specified in this document. Scope of construction includes but is not limited to, unloading and distribution of track material, distribution and spacing of cross ties, laying, bolting and spiking rail, field welding of jointed rail, placing rail anchors, raising, aligning and tamping track, and shaping ballast to the design section. The rail for the crossing panels shall be box anchored to the ties prior to moving the panels.

Construction procedures and methods shall be employed that keep the railroad sub-ballast and ballast sections from becoming rutted or disturbed and any operation that causes damage shall be stopped immediately. Alternate construction methods shall be instituted.

All removed track materials (rails, ties, other track materials) will become the property of the Contractor, except as noted on the Plans or in the Contract Documents. All track materials that become the property of the Contractor shall be removed from the project area and disposed of in a Contractor-furnished waste disposal site in accordance with all federal, local, state, and tribal regulations; removal and disposal shall be before Substantial Completion unless otherwise approved by the Owner.

242-3.02 TRACK ALIGNMENT AND GEOMETRY. The track shall be constructed to the alignment and profile indicated, or as adjusted by the Engineer, within the tolerances specified. Contractor shall designate right or left rail, while facing in the direction of increasing stationing, to control the grade of all tangent tracks on a contract-wide basis. Low rail on curves shall be the profile grade rail. High rail on curves shall be the line rail.

242-3.03 TOLERANCES. Deviations from indicated gauge, cross level, horizontal line, profile grade, and tie spacing shall conform to the following requirements:

1. Gauge. Shall be 4 ft-8 ½ in. plus or minus 1/8 in.
2. Cross Level and Super-elevation. Shall be plus or minus 1/8 in. from level on tangent or design super-elevation on curve.
3. Deviation from Horizontal Alignment. Plus or minus ¼ in. in a 62 foot chord. Plus or minus ½ in. total except in road crossings where total deviation shall be plus or minus ¼ in.
4. Deviation from Profile Grade. Shall not exceed plus or minus ¼ in. in 62 foot chord or a total of plus or minus ½ in.
5. Tie Spacing. Distance between centerline on adjacent ties shall be 19 ½ in. for wooden cross ties and not vary more than plus or minus 1 in. from the indicated spacing, with the additional requirements that 48 wooden ties shall be installed per 78 foot of track or 39 concrete ties per 78 foot of track.
6. Acceptance. Final track alignment will be accepted only after ARRC traffic has used the new track and alignment for 3 weeks.

242-3.04 CROSS TIE DISTRIBUTION. Contractor shall receive cross ties from supplier and transport

them to the work area in accordance with the AREMA "Handling of Ties from the Tree into the Track" for wooden ties and "Recommended Practices for Shipping, Handling, Application and Use" for concrete ties. Ties shall be placed on a smooth, compacted surface as specified herein, spaced as shown within specified tolerances, and laid normal to the centerline of track with heartwood face down. Line ends of ties in the track shall be aligned uniformly on the right side of track when facing increased stationing.

**242-3.05 TIE PLATES AND SCREWS.** Tie plates shall be attached to the cross ties with line and hold-down screws to the indicated patterns. Contractor may pre-plate cross ties prior to distribution. If Contractor chooses to pre-plate the cross ties, he shall furnish any additional material required at no added cost to Owner. Contractor shall use a jig to compensate for fabrication tolerances to achieve track gauge tolerances.

**242-3.06 RAIL LAYING.** Rail shall be laid in accordance with the details and procedures that follow:

1. **Rail Distribution.** Rails shall be distributed along the roadbed with the head of the rail up and in such a manner and using equipment that will prevent damage to them. Dropping rails from the sides of railcars or trucks will not be permitted.
2. **Rail Laying.** The base of the rail and surface of the tie and tie plate shall be cleaned prior to laying. Rails shall be laid one at a time without bumping or striking. Rail ends shall be brought squarely together against the expansion shims and completely bolted before spiking. Rails shall be laid so that the joints in opposite rails are staggered not less than 20 ft apart, plus or minus 24 in., except closer joints may be required at turnouts or roadway crossings. Rails of less than standard length shall be used to space the joints on curves. Rails shorter than 16 ft shall not be used. Rail shall be laid or welded so that no joints are in grade crossings or within 20 ft of the grade crossing surface.
3. **Rail Cutting and Drilling.** Rails shall be cut square and clean by means of rail saws. Holes for complete bolting of cut rail shall be precisely marked, center punched, and drilled using an exact template for alignment. In no instance shall marking through or drilling through joint bars be allowed. Holes shall be deburred. New holes shall not be drilled between two holes already drilled. Burning or cutting of rails or bolt holes by means of an acetylene torch will not be permitted. All cut rail ends shall be beveled at the head and be hardened to conform to AREMA "Manual Specifications for Steel Rails", Supplementary Requirement S1.
4. **Rail Joints.** The fishing surface of the rails and joint-bars shall be wire-brushed to remove rust before assembly. Allowance for rail expansion shall be made at all joints by the use of expansion shims placed between the ends of adjacent rails. The proper expansion allowance shall be determined as referenced in **Table 4 – Expansion allowance for joints.** Refer to AREMA chapter 5, paragraph 5.3.1 for shim thickness to use for 39 foot rail.

<b>Rail Temperature (°F)</b>	<b>Shim Thickness for 80 (nominal) foot rail (in.)</b>
Below 35	5/16
35-47	1/4
48-60	3/16
61-73	1/8
74-85	1/16
Over 85	None

**Table 4** – Expansion allowance for joints.

For shorter lengths of rail, proportionate shim thickness shall be used. The temperature of the rails shall be determined by the use of an AREMA standard rail thermometer, placed on the base of the rails close to the web on the side shaded from the sun. Sufficient time shall be allowed to accurately

record the temperature. Care shall be taken to assure that shims are not squeezed or damaged during installation of shims or rails. Shims shall be removed from between rail ends as soon as the bolts have been tightened and the rail anchors applied. All track bolts shall be installed when the rail is laid and tightened before spiking.

Final bolt tension shall be between 20,000 and 30,000 lbs. Bolts shall be tightened once, at the time of rail installation. Final tension shall be checked and adjusted as necessary just prior to final acceptance per AREMA chapter 5, paragraph 5.5.2.

5. Rail Anchoring. Rail anchors shall be located as indicated on ARRC standard plan No. 1.22-03. Rail anchors shall be installed to the gauge side of the rail. Rail anchors shall grip the base of the rail firmly and shall have full bearing against the face of the tie. Rail anchors shall not be moved by driving them along the rail.
6. Tie-in points. When tying into jointed rail on wood ties, every tie in the jointed rail for the distance called out in the Plans shall be box anchored.

#### **SC-05 – Section 244, Trackwork Removal**

244-1.01 DESCRIPTION. This work consists of dismantling and removing track from the existing roadbed. All removed track materials (rails, ties, other track materials) will become the property of the Contractor, except as noted on the Plans or in the Contract Documents. All track materials that become the property of the Contractor shall be removed from the project area and disposed of in a Contractor-furnished waste disposal site in accordance with all federal, local, state, and tribal regulations; removal and disposal shall be before Substantial Completion unless otherwise approved by the Owner.

#### **CONSTRUCTION REQUIREMENTS**

244-3.01 GENERAL. Remove all trackwork that is scheduled to be retired from service as a result of the new track construction.

244-3.02 ROADBED CLEANUP AND SHAPING. After all track material has been removed and debris and tie remnants removed, the remaining unclassified excavation shall be disposed of per Item No. 4 (203.0003.1) – Unclassified Excavation of the Special Conditions.

244-3.03 MISCELLANEOUS MATERIALS. Spikes, bolts, nuts, and washers and other miscellaneous track parts such as gauge rods shall become the property of the contractor.

#### **SC-06 – Minimum Work to be Performed by the Contractor**

The Contractor shall perform with their own organization not less than 40% of the original contract base amount.

#### **SC-07 – Equipment Rental**

DESCRIPTION. This item consists of furnishing construction equipment, operated, fueled and maintained, on a rental basis for use in construction of the proposed improvements and in performing work incidental to construction at the direction of the Project Manager or designee as such work is generally defined in these Plans and Specifications. Construction equipment is defined as that equipment actually used for performing the items of work specified and shall not include support equipment such as, but not limited to, hand tools, power tools, electric power generators, welders, small

air compressors and other shop equipment needed for maintenance of the construction equipment.

## REQUIREMENTS.

1. Equipment Furnished. The construction equipment to be provided under this contract shall be that shown in the Special Provisions or the bid schedule supplemented by such non-rental maintenance equipment and support equipment as the Contractor elects to provide. The equipment shall be of modern design and in good working condition and shall be maintained in good working condition throughout the life of the project. All equipment to be used in the construction of this project as noted in the Bid Schedule shall be made available for inspection by the Project Manager or designee prior to its shipment to the project site. Each item of equipment shall have company numbers clearly displayed for ready identification. The Project Manager or designee shall have the authority to prohibit the use of rental payment for any equipment which is not maintained in good working condition or which has a production capacity below construction industry standards.
2. Equipment Operators. Equipment operators shall be competent and experienced and shall be capable of operating the equipment to its capacity. The Contractor shall replace those operators who, in the opinion of the Project Manager or designee, misconduct themselves, either on the job or in the community, or are incompetent or negligent in the operation of the equipment.
3. Hours of Operation and Timekeeping. The Project Manager or designee shall begin recording time for payment each shift when the equipment begins work on the project. Time during which the equipment is being serviced or repaired shall not be included. The stated equipment rental rates shall apply only to that time during which the equipment is actively engaged in construction, as directed by the Project Manager or designee. No standby payment will be made for any piece of equipment prior to, during the life of, or after the project has been completed. "Stuck Time" payment shall be made for each piece of equipment that becomes stuck while actively engaged in construction work on the airport and shall be limited to 1 hour per shift for each piece of equipment that becomes stuck.
4. Construction Methods. The work shall be constructed according to the Plans, Special Provisions and as directed by the Project Manager or designee.

METHOD OF MEASUREMENT. The serial number and brief description of each item of equipment listed in the bid schedule will be recorded by the Project Manager or designee, and they will record the number of hours, or fractions thereof to the nearest one-quarter hour, during which the equipment is actively engaged in construction of the project. The furnishing and operating of equipment of heavier type, larger capacity, or higher horsepower than specified will not entitle the Contractor to any extra compensation over their applicable contract unit price. Each day's activity will be recorded on a separate sheet or sheets, which shall be verified and signed by the Contractor's representative at the end of each shift, and a copy will be provided to the Contractor's representative. No idle time will be recorded unless authorized by the Project Manager or designee.



## **APPENDIX G** – Special Conditions

Work shall be completed in accordance with the project drawings, these supplemental specifications and the suggested installation procedures as provided by the manufacturer. In the event of technical specification conflicts, the project drawings shall control.

It is recommended that the Contractor become familiar with the site conditions and review the Owner provided information prior to bidding the work, so as to make their own assessment of what means and methods will be necessary to complete the work.

All construction shall meet the current industry standards for the work being performed. The Contractor will help the Owner or its representative perform construction observation and oversight as required to complete the project and provide quality assurance for the project. All work shall meet all the stipulations stated herein and in any governing permits.

**ARRC Coordination:** The Contractor must coordinate with both the Transportation Field Manager or designee for Whittier and the ARRC Project Manager or designee for daily operations, access to the physical project site, for the delineation of the Contractor equipment staging area(s), to coordinate the movement of assets with their respective tenants and vessel coordination. Coordination with the ARRC and its on-site representative will be paramount to the successful execution of the work as the coordination of the movement of tenant assets is critical to the completion of the work.

**Quality Control:** The Contractor shall be responsible for controlling the quality of the construction and all of the required materials that are not furnished by the Owner. The work noted herein requires documentation of conformance with material and installation specifications. Material documentation shall be furnished to the Owner prior to placement or use of the Contractor provided materials on-site. Installation quality documentation shall be furnished to the Owner prior to any request for payment. Contractor is to supply quality control procedures for approval fifteen (15) days prior to commencing field work that is in compliance with the ARRC's installation requirements noted herein and on the Plans.

**Daily Reports:** The Contractor shall furnish and submit on a daily basis, unless otherwise approved by the Owner, a daily progress activity report for each day of Work; beginning on the first day of mobilization and continuing through the last day of demobilization. Daily reports shall contain, at a minimum, the followings items:

1. A detailed description of the day's Work activity.
2. Details of any incidents including any near misses.
3. A summary of Contractor resources employed that day including, but not limited to: labor, equipment, and materials.
4. Actual weather information during the day.
5. A list of all visitors to the site and the purpose of their visit.
6. A minimum of four (4) high resolution photos portraying the day's Work activities with descriptions of each photo. Photos are to be neatly embedded in the last page of the report.
7. Additional photos and/or videos of the Work activity and site conditions are encouraged and should be attached to the report.

A sample daily report is provided herein for reference. Alternatively, the Contractor may submit their proposed format to the Owner for review and approval prior to implementation.

**Safety and Security:** As the project limits are within an active port facility, all additional safety and security measures sanctioned by the Department of Homeland Security (DHS) shall be observed. At times when vessels are berthed at the facility, all workers are required to either have a Transportation Worker Identification Credential on their person, or to be escorted by a person with said credential and meeting the requirements set forth by the DHS.

**Surety Bonding:** If the aggregate sum of any work awarded exceeds \$100,000.00 U.S. Dollars, the Contractor must provide bonding as outlined herein.

Unless noted otherwise herein, the 2020 edition of the Alaska Department of Transportation and Public Facilities Standard Specifications for Highway Construction shall be referenced as the **SSHC**. Furthermore, unless explicitly noted, "Section" or "subsection" shall be in reference to the SSHC. The aforementioned reference manual can be found at <http://dot.alaska.gov/stwddes/dcsspecs/assets/pdf/hwyspecs/sshc2020.pdf>.

**CPM Schedule:** Provide and maintain a Critical Path Method (CPM) progress schedule for the project in accordance with Section 646 "*CPM Scheduling*". Initial CPM schedule is to be provided to the Owner a no less than five (5) business days prior to the pre-construction meeting and updated schedules are to be provided as indicated herein and with each application for payment.

The Contractor will be given access and allow to work on the property twenty-four (24) hours a day. Contractor can expect a minimum of one (1) barge per week that may affect work within the project limits during the discharge and subsequent back loading of rail cars and/or containers. Barges typically arrive in port on Tuesday evenings and are sailing by Thursday evenings. The Owner will provide the Contractor with a minimum twenty-four (24) hour notice prior to each barge's arrival. The Owner will also provide the Contractor with a minimum forty-eight (48) hour notice prior to train arrivals within the yard.

The Contractor will not be able to work between train arrival times through train departure times on Lower 1 and Lower 2 tracks, or be in the work area due to heavy forklift, truck, and train traffic. The CPM schedule will reflect no work days during these times.

The initial schedule, and all subsequent updates, will be shared with the tenants whom maintain assets within, or utilize the project limits for their respective operations, within the ARRC's Whittier Yard. Any schedule updates that may impact the aforementioned parties (e.g. requiring relocation of assets staged within) must be formally submitted to the ARRC no less than three (3) business days, or as outlined by the respective tenant during the pre-construction meeting, in advance to allow the respective tenants to coordinate their efforts to relocate their assets. The Contractor will not be compensated for delays as a result of poor communication and coordination with the ARRC regarding the movement of assets within the project limits.

Contract extensions for the reasons listed in subsection 108-1.06.3 "*Reasons for Suspension of Work and Extension of Contract Time*" will be reviewed on a case-by-case basis.

OMNI Products, Inc. TraCast 2 panels are expected to arrive in Whittier no earlier than the second week of **May 2021** and no later than the second week of **June 2021**.

**Substantial Completion:** Substantial Completion shall be on or before **01 October 2021**, unless accepted and agreed upon otherwise by the Owner. This completion scope includes all work items contained within the Contract Documents, properly completed, and fully serviceable for the intended use.

**Final Completion:** Final Completion of all work shall be on or before **15 October 2021**.

**Construction Phasing Plan:** Submit a Construction Phasing Plan for approval no less than five (5) working days prior to the pre-construction meeting. The plan shall detail how the Contractor plans to address each phase or segment of the project within the constraints outlined herein and on the Plans.

**Rates for Time and Materials Based Work:** The Contractor is to submit a rate sheet for all its equipment and labor, necessary to complete the work for the Owner's review and approval. Alternatively, the Contractor may elect to accept the equipment rates posted in the current edition and appropriate volume of the *Rental Rate Blue Book*, by EquipmentWatch, Penton Media, Inc. and labor rates as they appear on its payroll. Should it be deemed necessary to perform work other than that described in the Contract

Documents, and all parties involved cannot agree to a mutually acceptable price to perform the work that materially differs in character from the original scope of the work, an equitable adjustment to price, and Contract time, will be calculated on a time and materials basis in accordance with Subsection 109-1.05 "COMPENSATION FOR EXTRA WORK ON TIME AND MATERIALS BASIS". Upon review and concurrence of the Contractor's complete daily records of the cost of such work, the Owner will issue a Change Order for the amount calculated.

**Liquidated Damages:** If the Owner and the Contractor cannot agree on amenable terms of an extension in accordance with subsection 108-1.06, then liquidated damages will be deducted from the Contractor as outlined in subsection 108-1.07 for the amounts outlined in Table 108-1 therein.

Additionally, any charges or fees associated with the delay of any incoming vessel to the facility, to include any delays compounded by the initial delay, may be withheld at an amount equal to the charges or fees from payment due the Contractor, in accordance with General Condition 13.7. The Owner will not release performance bonds until any and all liquidated damages assessed under this Contract are paid to the Owner and all stipulations associated with said damages are satisfied.

In addition to the abovementioned damages, the Contractor may be assessed additional damages related to the delay of trains to include, but not limited to the following:

- a. Passenger Trains: \$50 per minute of delay, 60-minute minimum, each train.
- b. Other Rail Traffic: \$50 per minute of delay over five minutes, 30-minute minimum, each train.
- c. Rail Barges of other connecting marine carrier vessels: \$1000 per hour for each hour or any part of an hour thereafter with a minimum charge of \$6000.

Delay time will be taken from the train sheet in outages of Alaska Railroad Corporations' (ARRC) Dispatcher's Office, Anchorage for all delays and such train sheet will be the official documentation by which length of time a train is delayed will be determined. If another ARRC crew is needed to relieve the original crew, the charge will also apply to the second crew. If such delay causes a marine carrier to miss a sailing, the delay Traffic Price Adjustment Rate computation of time covering the period of time to the next possible sailing will be added to the length determined by said train sheet.

Traffic delays may result from encroachment of equipment, materials, or fixed objects in the Minimum Rail Clearance Envelope, excessive debris in the traveled way, non-conforming or out of place traffic control devices, or failure to maintain tunnel conditions according to the Minimum Equipment Required for Operations schedule. Failure to install temporary crash cushions or barriers, when required according to the Contract or TCP, may also result in traffic delays. The Engineer will make the sole determination weather conditions within the project area warrant a traffic delay.

<b>Delay Type</b>	<b>Dollars/Minute of Delay</b>	<b>Minimum Charge (Minutes)</b>
Passenger Train Traffic	\$50	60
Other Rail Traffic	\$50	30
Rail Barges / Marine Carrier	\$1000 (per hour)	6 (hours)

**Table 5** – Traffic Price Adjustments

Traffic Price Adjustments will be deducted from subsequent pay requests and measured as a Contingent Sum on the same.

## **BASE BID ITEMS:**

### **Item No. 1 (640.0001.1) – Mobilization and Demobilization**

Perform work and operations necessary to move personnel, equipment, supplies and incidentals to the project site; establish offices, buildings, and other facilities, except those provided by the Owner, perform other work and operations and pay costs incurred, before beginning construction; complete similar demobilization activities; and furnish required submittals such as as-built (record) drawings, certificates, daily construction daily reports, payrolls, civil rights reports, and equipment warranties as necessary. The Owner does not anticipate at this time providing the Contractor with utilities or support facilities. Therefore, the Contractor shall, anticipate providing their own utility and support facilities necessary to complete the work and/or provide for their employees. Contractor must comply with the Alaska Department of Labor and Workforce Development requirements as noted herein.

Method of measurement for payment will be in accordance with subsection 640-4.01 and Supplemental Condition SC-01.

### **Item No. 2 (202.0024.1) – Removal of Track**

Work includes all equipment, materials, supervision, and labor required to remove existing track features within the limits shown on the Plans in accordance with Section 202 “*REMOVAL OF STRUCTURES AND OBSTRUCTIONS*” and Supplemental Condition SC-05 – Section 244, Trackwork Removal. Disposal of all other items required for the removal of the scheduled structures per the aforementioned Section and the Plans, shall be subsidiary to this pay item and performed in accordance with the same. Any removed structures, along with any ancillary items not scheduled to be salvaged, become the property of the Contractor. The Contractor is responsible for disposing of the materials in a Contractor-furnished waste disposal site in accordance with all federal, local, state, and tribal regulations. Removal and disposal shall be before Substantial Completion.

Method of measurement for payment will be based on the accepted quantity be paid for at the agreed upon lump sum price, incrementally on an agreed upon breakdown, and in accordance with Section 109, Section 202, and Supplemental Condition SC-01.

### **Item No. 3 (202.0002.1) – Removal of Pavement**

Work includes all equipment, materials, supervision, and labor required to remove pavement in accordance with subsection 202-3.05 “*REMOVAL OF PAVEMENT, SIDEWALKS, AND CURBS*”. Precut all pavement removal to a neat line with a power saw or by other Owner-approved method. Owner shall verify the limits of pavement removal prior to commencing work.

Method of measurement for payment will be based on the accepted quantity be paid for at the agreed upon unit price in accordance with subsection 109-1.02.11 “*Square Yard*” and in accordance with Supplemental Condition SC-01.

### **Item No. 4 (203.0003.1) – Unclassified Excavation**

Work includes all equipment, materials, supervision, and labor required to excavate, haul, and dispose of specified material necessary to construct the project once the existing track structure has been removed as noted herein. Conform to the lines, grades, depths and typical cross sections shown on the Plans or as established herein. All material within the projects limits to be removed shall be designated as unclassified material. Unclassified material is to be defined per subsection 203-2.01. Construction activities under this item shall be in accordance with subsection 203-3.01 “*GENERAL*”, 203-3.03 “*EMBANKMENT CONSTRUCTION*”, and 203-3.05 “*COMPACTION WITHOUT MOISTURE AND DENSITY CONTROL*”.

Prior to the removal of any material under this Pay Item, the Contractor shall have a registered Professional Land Surveyor complete a pre-construction site survey in accordance with subsection 642,

and as outlined under Item No. 11 (642.0001.1) – Construction Surveying. Once approved by the Owner, this survey will become the baseline for the quantity to be accepted by the Owner under this Pay Item.

All materials generated by this Work shall be disposed of as directed by ARRC. Subsidiary to this Work shall be all costs associated with the stockpiling of unclassified material and potential loading of material from stockpiles to the ARRC work train. The Contractor shall only be responsible for loading materials while actively involved with other work items in this Contract.

Method of measurement for payment will be based on the accepted quantity within the limits shown in the Plans and be paid for at the agreed upon unit price in accordance with Section 109; with the cubic yard volume computed in accordance with subsection 109-1.02.3(b) “*Three-dimensional*”, and in accordance with Supplemental Condition SC-01.

**Item No. 5 (203.0006.1) – Selected Material, Type A**

Work includes all equipment, materials, supervision, and labor required to construct an aggregate base course or aggregate surface course on an approved foundation, as shown in the Plans using Owner provided aggregate. The Owner will provide a Standard Proctor and gradation from a reputable third party testing firm for the Contractor’s use. Material is to be placed in accordance with subsection 301-3.01 “*PLACING*” in 6-inch maximum uncompacted lifts and shaped and compacted in accordance with subsection 301-3.03 “*SHAPING AND COMPACTION*”. Material placed beneath the new track panels shall be compacted to 98%, or greater, relative compaction in accordance with the aforementioned subsection. The Contractor shall supply quality control testing in accordance with subsection 301-3.03 from a reputable third party testing agency.

Method of measurement for payment will be in accordance with Section 109 “*MEASUREMENT AND PAYMENT*” with the unit of measure calculated in accordance with subsection 109-1.02.13 “*Ton*” and in accordance with Supplemental Condition SC-01.

**Item No. 6 (301.0001.1) – Aggregate Base Course, Grading D-1**

Work includes all equipment, materials, supervision, and labor required to construct an aggregate base course or aggregate surface course on an approved foundation, as shown in the Plans using Owner provided aggregate. The Owner will provide a Standard Proctor and gradation from a reputable third party testing firm for the Contractor’s use. Material is to be placed in accordance with subsection 301-3.01 “*PLACING*” in 6-inch maximum uncompacted lifts and shaped and compacted in accordance with subsection 301-3.03 “*SHAPING AND COMPACTION*”. Material placed beneath the new track panels shall be compacted to 98%, or greater, relative compaction in accordance with the aforementioned subsection. Material placed as a surface course shall be compacted to a minimum of 95% relative compaction. The Contractor shall supply quality control testing in accordance with subsection 301-3.03 from a reputable third party testing agency.

Method of measurement for payment will be in accordance with Section 109 “*MEASUREMENT AND PAYMENT*” with the unit of measure calculated in accordance with subsection 109-1.02.13 “*Ton*” and in accordance with Supplemental Condition SC-01.

**Item No. 7 (630.0001.1) – Geotextile, Separation, Class 3**

Work includes all equipment, materials, supervision, and labor required to install the geosynthetics in accordance with the Plans, manufacturer’s recommendations, and per Section 630, “*GEOTEXTILE FOR SUBSURFACE EMBANKMENT AND ROADWAY SEPARATION, STABILIZATION, AND REINFORCEMENT*”. Contractor shall submit specifications or datasheets from the supplier meeting the requirements set forth in subsection 729-2.01.2.

Method of measurement for payment will be in accordance with subsection 630-4.01 and Supplemental Conditions SC-01.



### **Item No. 8 (617.0001.1) – Railroad Crossings**

Work includes all equipment, materials, supervision, and labor required to install the Owner-provided components of the OMNI Products, Inc. TraCast 2 panel system in accordance with the manufacturer's recommendations attached herein and in accordance with Section 617 "RAILROAD CROSSINGS" except as noted herein. As noted in the Plans, the finished surface of subgrade (foundation) must not deviate more than 3/16" from a 16' straight edge. Any deviations greater than the aforementioned shall be corrected at no cost to the Owner.

Installation of the panels shall begin once the underlying foundation has been approved by the Owner. The panels shall be installed starting at the northeastern (cardinal) limits of the project, from the turnout between the Lower 1 and Lower 2 tracks.

Individual weights of the panels and their picking points are indicated in the Tracast 2 Lifting Plan as provided by the manufacturer.

Notify the Owner prior to the placement of fill material around the newly installed panels and the installation of the 115# RE rail and its boot. A representative of ARRC's MOW group shall inspect the installation for conformance with the Contract Documents and AREMA® (*American Railway Engineering and Maintenance-of-Way Association*) Standards. Any Work completed prior to the aforementioned inspection of the crossing panels shall be at the Contractor's own risk.

Method of measurement for payment will be based on the accepted quantity at the agreed upon lump sum price, incrementally on an agreed upon breakdown, and in accordance with Section 109, Section 617, and Supplemental Condition SC-01.

### **Item No. 9 (244.0001.1) – Trackwork, 115# RE Rail**

Work includes all equipment, materials, supervision, and labor required to install the new 115# RE rail within the limits shown on the Plans. New rail shall be installed in the boot as outlined in the Tracast 2 Installation Instructions attached herein where it will be installed within the new modular crossing panels. New rail shall be installed up to the nearest joint bar outside the limits of the crossing improvements, or to a field cut as approved by the Owner. Construction of the new rail shall be completed in accordance with SC-04 – Section 242, Trackwork.

Unless noted otherwise, ARRC shall supply the Contractor with all track materials at the Whittier Yard required to install the new rail to include, but not limited to, the following:

- Type 3 Ballast
- ±80 foot sections of 115# RE rail;
- Angle joint bars and all required hardware to install;
- Track spikes
- Rail anchors;
- Tie plates;
- Pandrol Plates 5 ½" base
- Pandrol Clips (e- and j-);
- Screw spikes; and,
- 10.0' treated wooden cross ties.

The Owner will provide the Contractor with a tentative schedule of train operations in the area. It is expected that the Contractor will have the section of track affected by their Work fully serviceable prior to ARRC train operations. The serviceability of the track will be determined during the Owner and FRA mandated track inspections by an Owner Furnished Certified Track Inspector. Any Work found to be deficient during said inspections shall be rectified as soon as practicable by the Contractor, at no additional cost to the Owner.



Until a level of confidence is obtained with the Contractor's ability to complete the abovementioned work, the facility must be returned to its pre-construction state a minimum of four (4) hours prior to the tentative arrival of ARRC assets requiring its use.

Method of measurement for payment will be based on the accepted quantity at the agreed upon lump sum price, incrementally on an agreed upon breakdown, and in accordance with Section 109, Section 617, and Supplemental Condition SC-01.

**Item No. 10 (401.0001.1) – Hot Mix Asphalt, Type II: Class A**

Work includes all equipment, materials, supervision, and labor required to construct one or more courses of plant-produced Hot Mix Asphalt (HMA) pavement on an approved surface, to the lines, grades, and depths shown on the Plans in accordance with Section 401 "HOT MIX ASPHALT". Provide a job mix design meeting the requirements set forth in subsection 401-2.09 "JOB MIX DESIGN" using aggregates conforming to subsection 703-2.04, asphalt binder conforming to subsection 401-2.01, and joint products conforming to subsections 702-2.05 and 702-2.06. The Contractor shall supply quality control testing in accordance with subsection 401-4.02 from a reputable third party testing agency.

HMA shall be placed in lifts no greater than three (3) inches once compacted and no less than two (2) inches un-compacted. STE-1 Asphalt for Tack Coat (*or approved equal*) conforming to subsection 702-2.03.2 shall be applied to all hardened non-aggregate surfaces (*which are to be paved over or against*) no more than four (4) hours prior to the placement of HMA and in accordance with Section 402 "TACK COAT". All HMA placed shall be compacted, using mechanical equipment appropriately sized for the task at hand, until there is no further evidence of consolidation and to the satisfaction of the Owner or its designated representative. Contractor shall shape and maintain the drivable surface during barge and forklift operations until the final paving is complete.

For joints that are not hot lapped (*meeting the minimum requirements set forth in Section 401*) in the field, apply joint adhesive to all vertical joints prior to the placement of new HMA.

The Contractor shall adhere to the limitations noted in subsection 401-3.03 "WEATHER LIMITATIONS" for the placement of HMA materials for this project.

Method of measurement for payment will be in accordance with Section 109 with the unit of measure calculated in accordance with subsection 109-1.02.13 "Ton". Contractor is to supply copies of the tickets from the supplier meeting the requirements set forth in subsection 109-1.02.13 and in accordance with Supplemental Condition SC-01.

**Item No. 10.1 (401.0001.2) – Rail Flange Paving**

Work includes all equipment, materials, supervision, and labor required to place HMA pavement within the trough of the OMNI Products, Inc. TraCast 2 panels, on both the field and gauge sides of the rail. HMA materials required to complete this work are subsidiary to this pay item. Use HMA materials previously approved for use on this Project. Place, spread and compact the rail flange pavement on an approved surface at the thickness and shape called for on the Plans. The Contractor shall supply quality control testing in accordance with subsection 401-4.02 from a reputable third party testing agency.

Prior to the placement of HMA materials place geotextile material on bottom of trough extending over the Pandrol hardware on both field and gauge sides of the rail. Contractor shall submit specifications or datasheets from the geotextile supplier meeting the requirements set forth in subsection 729-2.01.2. Ensure that the keyway is clean, free of debris, and that tack coat is applied in conformance with the Contract Documents. The Contractor shall mitigate tripping hazards by placing material in the trough on both the field and gauge sides of the rail (e.g. timber, aggregate, or salvaged rubber flangeway filler).

The Contractor shall submit a Rail Flange Paving Plan for Owner approval; the plan shall include methods to achieve the pavement elevations within the trough of the panels. HMA pavement placed with the

troughs shall be compacted to the satisfaction of the Owner, or its designated representative, creating smooth clean joints with no gaps.

Work under this Pay Item shall not commence until the following conditions have been met:

1. The Owner has inspected and approved the cleanliness of the troughs to be paved within.
2. Rail installed within the trough has been inspected by the Owner for compliance with both its and the FRA's standard through the mandated inspection process conducted by ARRC's Certified Track Inspector.
3. All surfacing, to include runoff areas, has been completed on both ends of the completed section (i.e. either Lower 1 or Lower 2) of Omni TraCast 2 panels.

The accepted quantity will be paid for at the agreed upon lump sum price, incrementally on an agreed upon breakdown, and in accordance with Section 109 and Supplemental Condition SC-01.

#### **Item No. 11 (642.0001.1) – Construction Surveying**

Work includes all equipment, materials, supervision, and labor required to provide a surveyor or third-party surveying firm to perform surveying and staking essential for the completion of the project and perform the necessary calculations required to accomplish the work in conformance with the Plans and Specifications in accordance standard engineering and survey practices. The surveyor may also be directed and/or required to perform any task outlined in Section 642 "*Construction Surveying and Monuments*".

All calculations used to determine final pay item quantities (e.g. *volumes*) must be signed and sealed by a Professional Land Surveyor registered in the State of Alaska.

After Substantial Completion, Contractor shall perform and submit a final as-built survey to the Owner for approval. Survey shall include at a minimum the following: grade breaks, edges of asphalt, top of rail, and edges of panels. Complete survey at intervals of no less than 20 feet on curves and 50 feet on tangents.

Provide design files in their native file extensions that are compatible with the Autodesk suite of programs as well as any externally referenced (XREF) files associated with said drawings. Transmit design files in a version of Autodesk not later than 2019 but no earlier than 2010. Utilize the Alaska State Plane, Zone 4 coordinate system with U.S. Survey Feet for all Work. Provide all raw data (.ascii point files) with each submittal. When terrain models are required, provide the Owner with LandXML files for each surface.

The accepted quantity will be paid for at the agreed upon lump sum price, incrementally on an agreed upon breakdown, and in accordance with Section 109 and Supplemental Condition SC-01.

#### **Item No. 12 (641.0001.1) – Erosion, Sediment and Pollution Control Administration**

Work includes all equipment, materials, supervision, and labor required to provide project administration, management (*by certified individuals*), and work relating to the control of erosion, sedimentation, and discharge of pollutants, according to Section 641. Additionally, all applicable local, state, tribal, and federal requirements, including the Alaska Pollutant Discharge Elimination System (ADPES) Construction General Permit (ACGP) (*administered by Alaska Department of Environmental Conservation*), Section 301(a) of the Clean Water Act (CWA), and 18 AAC 83.015 are to be followed.

Dependent upon on the amount of fuel to be stored within ARRC's ROW, a Spill Prevention, Control, and Countermeasures (SPCC) plan may be required. Subsidiary to this work shall be all costs associated with the installation, maintenance, and removal of any Best Management Practice (BMP)s required to conform to the ACGP.

The accepted quantity will be paid for at the agreed upon lump sum price, incrementally on an agreed upon breakdown, and in accordance with Section 109. Prior to the Contractor's first application for

payment that includes this progress under this item, the Contractor is to submit a lump sum breakdown for approval based upon with the phases and/or segments of work outlined herein.

### **Additive Alternate Bid Items:**

#### **Item No. A1 – Selected Material, Type A**

Work includes all equipment, materials, supervision, and labor required to construct an aggregate base course or aggregate surface course on an approved foundation, as shown in the Plans using aggregate conforming to subsection 703-2.07 “*SELECTED MATERIAL*”. The Contractor shall submit a Standard Proctor and gradation for the material it proposes to use that is within two (2) years of the Contract award year and from a reputable third party testing firm. Material is to be placed in accordance with subsection 301-3.01 “*PLACING*” in 6-inch maximum uncompacted lifts and shaped and compacted in accordance with subsection 301-3.03 “*SHAPING AND COMPACTION*”. Material placed beneath the new track panels shall be compacted to 98%, or greater, relative compaction in accordance with the aforementioned subsection. The Contractor shall supply quality control testing in accordance with subsection 301-3.03 from a reputable third party testing agency.

Method of measurement for payment will be in accordance with Section 109 “*MEASUREMENT AND PAYMENT*” with the unit of measure calculated in accordance with subsection 109-1.02.13 “*Ton*” and in accordance with Supplemental Condition SC-01. Contractor shall supply copies of the tickets from the supplier meeting the requirements set forth in subsection 109-1.02.13.

#### **Item No. A2 – Aggregate Base Course, Grading D-1**

Work includes all equipment, materials, supervision, and labor required to construct an aggregate base course or aggregate surface course on an approved foundation, as shown in the Plans using aggregate conforming to subsection 703-2.03 “*AGGREGATE BASE COURSE, GRADING D-1*”. The Contractor shall submit a Standard Proctor and gradation for the material it proposes to use that is within two (2) years of the Contract award year and from a reputable third party testing firm. Material is to be placed in accordance with subsection 301-3.01 “*PLACING*” in 6-inch maximum uncompacted lifts and shaped and compacted in accordance with subsection 301-3.03 “*SHAPING AND COMPACTION*”. Material placed beneath the new track panels shall be compacted to 98%, or greater, relative compaction in accordance with the aforementioned subsection. Material placed as a surface course shall be compacted to a minimum of 95% relative compaction. The Contractor shall supply quality control testing in accordance with subsection 301-3.03 from a reputable third party testing agency.

Method of measurement for payment will be in accordance with Section 109 “*MEASUREMENT AND PAYMENT*” with the unit of measure calculated in accordance with subsection 109-1.02.13 “*Ton*” and in accordance with Supplemental Condition SC-01. Contractor shall supply copies of the tickets from the supplier meeting the requirements set forth in subsection 109-1.02.13.

#### **Item No. A3 – Heavy Equipment Support**

Work includes all equipment, materials, supervision, and labor required to provide services in accordance with Supplemental Condition **SC-07 – Equipment Rental** when required.

This item may be used to assist with the offloading of aggregate materials from ARRC railcars.

Payment will be made at the contract unit price bid for equipment rental per hour. This payment shall be full compensation for all fuel, operator's and mechanic's wages, parts, tools, maintenance items, shop equipment, camp, camp personnel wages, and all other incidentals necessary to keep the equipment in good condition and available for work on the project. No payment for equipment standby time resulting from unfavorable weather, or any other reason, is implied or intended and no payment therefore will be made by the Owner. No payment will be made separately or directly for embankments.

Method of measurement for payment will be based on the accepted quantity and be paid for at the agreed upon unit price in accordance with Section 109 and in accordance with Supplemental Condition SC-01.

**END OF SPECIAL CONDITIONS**

# **APPENDIX H – Construction Quality Control (CQC) Plan**

## **1. SUBMITTAL AND GENERAL REQUIREMENTS**

- 1.1. The Contractor shall establish and maintain an effective quality management system. The quality management system shall consist of plans, procedures, and the organization necessary to provide material, equipment, and workmanship that comply with the requirements of the contract documents. The system shall cover operations both onsite and offsite, and shall be keyed to the proposed sequence of the work.
- 1.2. The Contractor shall prepare a Construction Quality Control (CQC) plan compliant with the requirements of this appendix and all other contract documents. A complete detailed CQC plan shall be submitted to the Owner's Representative within 10 days of intent to award and shall be approved in writing by the Owner's Representative prior to proceeding with the work.
- 1.3. The CQC plan shall be capable of ensuring that the procurement, shipping, handling, fabrication, installation, cleaning, inspection, construction, testing, storage, examination, repair maintenance, and required modifications of all materials, equipment, and elements of the work comply with the requirements of the contract documents and that all materials incorporated in the work will perform satisfactorily for the purpose intended.
- 1.4. If Contractor does not provide an acceptable CQC plan, ARRC may, at its sole discretion, elect to award the contract to others.

## **2. AUTHORITY AND RESPONSIBILITY**

- 2.1. Authority: The persons and organizations performing quality control and quality assurance functions shall have sufficient authority and organizational freedom to identify quality problems and to initiate, recommend, provide, and verify implementation of the solution.
- 2.2. Changes in Plan or Personnel: The Contractor shall not revise the CQC or the quality staffing levels or replace any of the key personnel specified herein without prior written approval from the Owner's Representative.
- 2.3. Contractor's Responsibility: The Contractor is solely responsible for achieving project quality and shall have overall responsibility for the quality of all construction work. The contractor shall conduct quality management activities, which include inspection, materials testing, and other activities specifically developed and/or chosen by the Contractor.
- 2.4. Owner's Responsibility: ARRC reserves the right to, and will, conduct inspections, testing, sampling, and evaluation associated with quality assurance and independent quality assurance. ARRC's role in construction is to provide the following.
  - 2.4.1. Quality assurance and independent assurance of construction activities, inspection, and materials testing. ARRC will do this with either its staff or a consultant acting as the owner's representative.
  - 2.4.2. Oversight of the Contractor's quality management activities to ensure adherence to the CQC plan and compliance with the contract documents.
  - 2.4.3. Notifying the Contractor promptly of irregularities or deficiencies observed in the work.
  - 2.4.4. Oversight of the Contractor's construction management, including scheduling, invoicing, shop drawing review, document control, etc.

## **3. CONSTRUCTION QUALITY CONTROL (CQC) PLAN**

- 3.1. Objectives: Quality in the construction phase is the program of policies, procedures, and responsibilities required to provide confidence that the desired characteristics have been obtained to help ensure the project will perform its intended function for its design life. Quality control in the construction phase shall consist of those actions necessary to assess production and construction

processes so as to control the level of quality being produced in the end project. The Contractor's quality control actions shall include examining, checking, and inspecting in-process and completed work, and materials sampling and testing during production and construction, as a means of controlling and measuring the characteristics and conformity of an item, process, or feature to established requirements.

- 3.2. The Contractor's CQC plan shall be capable of:
  - 3.2.1. Ensuring that the design, procurement, shipping, handling, fabrication, installation, cleaning, inspection, construction, testing, storage, examination, repair, maintenance, and required modifications of all materials, equipment, and elements of the work comply with the requirements of the contract documents.
  - 3.2.2. Ensuring that all materials incorporated in the work, all equipment, and all elements of the work will perform satisfactorily for the purpose intended.
- 3.3. Contents of the CQC Plan: The CQC plan shall delineate the type and frequency of inspection, sampling, and testing deemed necessary to measure and control the various properties of material and workmanship of all construction processes within the tolerances governed by the drawings and specifications, applicable codes and regulations, permit conditions, and other contract requirements as contained herein. The CQC plan shall include the following, at a minimum.
  - 3.3.1. Construction activity and item inspection plans.
  - 3.3.2. Schedule of materials control including materials to be tested, test methods, and frequency of testing.
  - 3.3.3. Sampling locations and techniques.
  - 3.3.4. Control of workmanship
  - 3.3.5. Identification and qualifications of key quality control personnel, including the quality control manager, inspectors, and technicians. Include an organization chart with reporting lines.
  - 3.3.6. Name and location of testing laboratories.
  - 3.3.7. Documentation procedures, including inspection and test records; accuracy and calibration checks; nature, number, and type of deficiencies found; nature of corrective actions; and quantities of work tested and sampled.
  - 3.3.8. Mandatory inspection points.

#### **4. CONSTRUCTION QUALITY ORGANIZATION**

- 4.1. The construction CQC shall describe the Contractor's quality management organization for all of the project construction processes. At a minimum, the CQC shall identify the following positions.
  - 4.1.1. Construction Manager or Superintendent: The Construction Manager shall be the individual responsible for the overall project construction, quality management, and contract administration for this project.
  - 4.1.2. Construction Quality Manager: The Construction Quality Manager may work directly for the Contractor or may be contracted from an independent firm or organization. The Construction Quality Manager shall work under the direct supervision of the Construction Manager. It shall be the responsibility of the Construction Quality Manager to perform workmanship inspections, implement quality planning, oversee quality control testing, and coordinate with Owner's QA testing and independent assurance testing. The Construction Quality Manager shall also cooperate with the Owner's Representative in compiling a statistical correlation of materials and workmanship data. The Construction Quality Manager shall be responsible for submitting requested inspection, testing, and other data to the Owner's Representative on a daily basis or as determined by the Construction Quality Manager and ARRC's field representative.. The Construction Quality Manager shall have at least two years (within the last five years) of experience in inspection and materials testing for similar projects.



- 4.1.3. Construction Testing Technicians: The construction testing technicians may work directly for the Contractor or may be contracted from an independent firm or organization. They shall work under the direct supervision of the Construction Quality Manager and perform inspections as indicated in the construction CQC. Each Construction Testing Technician shall have training and/or technical certification, as appropriate, for the specific type and level of work that they will be testing; e.g., asphalt certification, welding, concrete strength, etc.

**5. PRECONSTRUCTION MEETING:** Before the start of construction, the Contractor shall meet with ARRC or its authorized representative in a pre-construction meeting. A topic of the pre-construction meeting shall be the Contractor's proposed quality management system. During the meeting, a mutual understanding of the system details shall be developed, including the forms for recording the Contractor's quality control operations, control activities, testing, administration of the system for both onsite and offsite work, and the Contractor's quality control program. Minutes of the meeting shall be prepared and signed by both the Construction Manager and the Owner's Representative. The minutes shall become a part of the contract file. Additional conferences may be called at any time to reconfirm mutual understandings.

## **6. INSPECTIONS AND TESTS**

- 6.1. Except where they are specifically indicated to be the Owner's responsibility, or are provided by another identified entity, the Contractor shall provide inspections, tests, and similar quality control services in accordance with the approved CQC plan. Costs for these services shall be included in the contract price, whether performed by the Contractor's personnel or an independent firm.
- 6.2. Associated Services: The Contractor shall cooperate with organizations performing required inspections, tests, and similar services and shall provide reasonable auxiliary services as requested. Auxiliary services required include, but are not limited to:
  - 6.2.1. Providing access to the work and furnishing incidental labor and facilities necessary to facilitate inspections and tests.
  - 6.2.2. Taking adequate quantities of representative samples of materials that require testing or assisting the Owner in taking samples.
  - 6.2.3. Providing facilities for storage or curing of test samples, and delivery of samples to testing laboratories.
  - 6.2.4. Providing the Owner with a preliminary design mix proposed for use for materials mixes that require control.
  - 6.2.5. Security and protection of samples and test equipment at the project site.
- 6.3. Coordination: The Contractor, the Owner's Representative, and any independent testing agencies shall coordinate the sequence of activities to accommodate required inspection and testing services with a minimum of delay. In addition, the Contractor and ARRC shall coordinate activities so that removing and replacing construction to accommodate inspections and tests will not be required.
- 6.4. The Contractor is responsible for scheduling times for inspections, tests, taking samples, and similar activities.
- 6.5. Mandatory Inspection Documentation Points: Documentation points are mandatory verification and inspection points that shall be identified in the CQC plan and the project schedule. Documentation points should be points at which critical characteristics are to be measured and documented by the Construction Quality Manager. It will be the responsibility of the Construction Quality Manager to certify that the design and construction have met the requirements of the plans and specifications and to sign all inspection documentation. Inspection documentation shall be submitted to ARRC or its representative when requested. It shall be the responsibility of the Contractor to determine inspection documentation point criteria and required documentation. ARRC will not prescribe the inspection criteria.

- 6.6. ARRC should be notified a minimum of 24 hours prior to any mandatory inspection.
  - 6.6.1. The mandatory inspection points for this project shall be established through coordination between the contractor and the Owner's Representative...
- 6.7. Completion Inspection: At the completion of all work or any increment thereof established by a completion time stated in the schedule or in the CQC plan, the Construction Quality Manager shall conduct a completion inspection of the work and develop a punch list of items that do not conform to the contract documents. Such a list of deficiencies shall be included in the QC documentation as required herein, and shall include the estimated date by which the deficiencies will be corrected. The Construction Quality Manager shall make a second completion inspection to make certain that all deficiencies noted on the punch list have been corrected and so notify ARRC. The completion inspections and any deficiency corrections required by this paragraph shall be accomplished within the time stated for completion of the entire work or any particular increment thereof if the project is divided into increments by separate completion dates.

## **7. DOCUMENTATION**

- 7.1. The Contractor shall maintain daily records of quality control operations, activities, and tests performed, including the work of suppliers and subcontractors. These records shall be on an acceptable form and shall include factual evidence that required activities or tests have been performed, including, but not limited to, the following.
  - 7.1.1. Type and number of control activities and tests involved.
  - 7.1.2. Results of control activities or tests.
  - 7.1.3. Nature of non-conformances, defects, causes for rejection, etc.
  - 7.1.4. Proposed remedial action.
  - 7.1.5. Corrective actions taken.
  - 7.1.6. Description of trades working on the project, the number of personnel working, the weather conditions encountered, any delays, and acknowledgement of any instruction given by ARRC.
- 7.2. The daily quality control report records shall cover both conforming and defective or deficient features and shall include a statement that supplies and materials incorporated in the work and workmanship comply with the contract. The Construction Quality Manager shall sign the daily quality control report and furnish legible copies to ARRC by the end of the following workday.
- 7.3. Monthly quality control reports that summarize project status, work completed related to funds expended, any nonconformance, and any necessary corrective actions shall be provided.

## **END OF CONSTRUCTION QUALITY CONTROL (CQC) PLAN**

## **APPENDIX I – Forms**

**ALASKA RAILROAD CORPORATION – CONSTRUCTION BID FORM**  
*of:*

**NAME** \_\_\_\_\_  
**ADDRESS** \_\_\_\_\_  
\_\_\_\_\_

**To the CONTRACTING OFFICER, ALASKA RAILROAD CORPORATION:**

In compliance with your Invitation to Bid Number, Invitation to Bid 21-11-208873 the Undersigned proposes to furnish and deliver all the materials and do all the work and labor required in the construction of the Whittier Yard: Lower 1 and Lower 2 Track Improvements, located at or near Whittier, Alaska according to the plans and specifications and for the amount and prices named herein as indicated on the Cost Schedule, which is made a part of this Bid.

The Undersigned declares that he/she has carefully examined the contract requirements and that he/she has made a personal examination of the site of the work; that he/she understands that the quantities, where such are specified in the Cost Schedule or on the plans for this Project, are approximate only and subject to increase or decrease, and that he/she is willing to perform increased or decreased quantities of work at unit prices bid under the conditions set forth in the Contract Documents.

The Undersigned hereby agrees to execute the said contract and bonds within **Ten (10) Calendar Days**, or such further time as may be allowed in writing by the Contracting Officer, after receiving notification of the acceptance of this Bid, and it is hereby mutually understood and agreed that in case the Undersigned does not, the accompanying bid guarantee shall be forfeited to the Alaska Railroad Corporation as liquidated damages, and said Contracting Officer may proceed to award the contract to others.

The Undersigned agrees to commence the work within **Ten (10) Calendar Days** after the effective date of the Notice to Proceed and to complete the work by \_\_\_\_\_, unless extended in writing by the Contracting Officer.

The Undersigned proposes to furnish a Payment Bond in the amount of One Hundred Percent (100%) and a Performance Bond in the amount of One Hundred Percent (100%) (of the contract), as surety conditioned for the full, complete and faithful performance of this contract.

The Undersigned acknowledges receipt of the following addenda to the drawings and/or specifications (give number and date of each).

<b>Addenda No.</b>	<b>Date Issued</b>	<b>Addenda No.</b>	<b>Date Issued</b>	<b>Addenda No.</b>	<b>Date Issued</b>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

## NON-COLLUSION AFFIDAVIT

The Undersigned declares, under penalty of perjury under the laws of the United States, that neither he/she nor the firm, association, or corporation of which he/she is a member, has, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this Bid.

The Undersigned has read the foregoing proposal and hereby agrees to the conditions stated therein by affixing his/her signature below:

\_\_\_\_\_  
Signature

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

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

\_\_\_\_\_  
Facsimile Number

Form 395-0121 (12/99)

## ALASKA RAILROAD CORPORATION – BID BOND

<b>ITB 21-11-208873</b> Whittier Yard: Lower 1 and Lower 2 Track Improvements			<b>DATE BOND EXECUTED</b>	
<b>PRINCIPAL (Legal name and business address)</b>			<b>TYPE OF ORGANIZATION</b>	
			<input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> JOINT VENTURE <input type="checkbox"/> CORPORATION	
<b>SURETY(IES) (Name and business address)</b>			10 STATE OF INCORPORATION	
<b>A.</b>	<b>B.</b>	<b>C.</b>		
<b>PENAL SUM OF BOND</b>			<b>DATE OF BID</b>	
<p>We, the PRINCIPAL and SURETY above named, are held and firmly bound to the Alaska Railroad Corporation (ARRC), in the penal sum of the amount stated above, for the payment of which sum will be made, we bind ourselves and our legal representatives and successors, jointly and severally, by this instrument.</p> <p>THE CONDITION OF THE FOREGOING OBLIGATION is that the Principal has submitted the accompanying bid or proposal in writing, date as shown above, on the following project: _____, in accordance with contract documents filed in the office of the Contracting Officer, and under the Invitation for Bids therefore, and is required to furnish a bond in the amount stated above.</p> <p>If the Principal's bid is accepted and he/she is offered the proposed contract for award, and if Principal fails to enter into the contract, then the obligation to ARRC created by this bond shall be in full force and effect.</p> <p>If the Principal enters into the contract, then the foregoing obligation is null and void.</p>				
<b>PRINCIPAL</b>				
Signature(s)	1.	2.	3.	Corporate Seal
Name(s) & Titles [Typed]	1.	2.	3.	
<b>CORPORATE SURETY(IES)</b>				
<b>S U R E T Y  A</b>	Name of Corporation		State of Incorporation	Liability Limit \$
	Signature(s)	1.	2.	Corporate Seal
	Name(s) & Titles [Typed]	1.	2.	



CORPORATE SURETY(IES)				
S U R E T Y  B	Name of Corporation		State of Incorporation	Liability Limit \$
	Signature(s)	1.	2.	Corporate Seal
	Name(s) & Titles [Typed]	1.	2.	

CORPORATE SURETY(IES)				
S U R E T Y  C	Name of Corporation		State of Incorporation	Liability Limit \$
	Signature(s)	1.	2.	Corporate Seal
	Name(s) & Titles [Typed]	1.	2.	

**INSTRUCTIONS**

1. This form shall be used whenever a bid bond is submitted.
2. Insert the full legal name and business address of the Principal in the space designated. If the Principal is a partnership or joint venture, the names of all principal parties must be included (e.g., "Smith Construction, Inc. and Jones Contracting, Inc. dba Smith/Jones Builders, a Joint Venture"). If the Principal is a corporation, the name of the state in which incorporated shall be inserted in the space provided.
3. Insert the full legal name and business address of the Surety in the space designated. The Surety on the bond may be any corporation or partnership authorized to do business in Alaska as an insurer under AS 21.09. Individual sureties will not be accepted.
4. The penal amount of the bond may be shown either as an amount (in words and figures) or as a percent of the contract bid price (a not-to-exceed amount may be included).
5. The scheduled bid opening date shall be entered in the space marked Date of Bid.
6. The bond shall be executed by authorized representatives of the Principal and Surety. Corporations executing the bond shall also affix their corporate seal.
7. Any person signing in a representative capacity (e.g., an attorney-in-fact) must furnish evidence of authority if that representative is not a member of the firm, partnership, or joint venture, or an officer of the corporation involved.
8. The states of incorporation and the limits of liability of each surety shall be indicated in the spaces provided.
9. The date that bond is executed must not be later than the bid opening date.

Form 395-0120

# CONTRACTOR RESPONSIBILITY QUESTIONNAIRE

## PART I - INSTRUCTIONS

1. All Bidders/Proposers submitting a Bid/Proposal for federally funded contracts are to complete and submit all Parts of this Questionnaire with their Bid or Proposal. Failure to complete and return this questionnaire, any false statements, or failure to answer question when required, may render the bid/proposal non-responsive. All responses must be typewritten or printed in ink. All information must be legible.
2. Please state "not applicable" in questions clearly not applicable to Bidder/Proposer in connection with this solicitation. Do not omit any question.
3. The completed Questionnaire must be sworn to by a partner (if partnership), a duly authorized officer or individual (if a corporation or LLC), or a principal (if a sole proprietorship).
4. The term "Proposer" includes the term "Bidder" and also refers to the firm awarded the Contract. The term "Proposal" includes the term "Bid".
5. ARRC reserves the right to inquire further with respect to Proposer's responses; and Proposer consents to such further inquiry and agrees to furnish all relevant documents and information as requested by ARRC. Any response to this document prior or subsequent to Proposer's Proposal which is or may be construed as unfavorable to Proposer will not necessarily automatically result in a negative finding on the question of Proposer's responsibility or a decision to terminate the contract if it is awarded to Proposer.

## PART II - IDENTITY OF PROPOSER

1. Proposer's Full Legal Name: \_\_\_\_\_
2. The Proposer represents that it operates as the following form of legal entity: (Check whichever applies and fill in any appropriate blanks.)
  - an individual or sole proprietorship
  - a general partnership
  - a limited partnership
  - a joint venture consisting of: \_\_\_\_\_  
and \_\_\_\_\_  
(List all joint ventures on a separate sheet if this space is inadequate.)
  - a non-profit organization
  - a corporation organized or incorporated under the laws of the following state or country: \_\_\_\_\_ on the following date: \_\_\_\_\_
  - a limited liability company organized under the laws of the following state or country: \_\_\_\_\_ on the following date: \_\_\_\_\_
3. Proposer's federal taxpayer identification number: \_\_\_\_\_
4. Proposer's Alaska business license number: \_\_\_\_\_

5. Proposer's contractor's license number (for construction only): \_\_\_\_\_

6. Proposer's legal address: \_\_\_\_\_

Telephone Number: (\_\_\_\_) \_\_\_\_\_ Fax Number: (\_\_\_\_) \_\_\_\_\_

7. Proposer's local or authorized point of contract address:

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

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

Telephone Number: (\_\_\_\_) \_\_\_\_\_ Fax Number: (\_\_\_\_) \_\_\_\_\_

8. How long has the Proposer been in business? \_\_\_\_\_

9. Has Proposer been in business under another name? If so, identify name and dates used.

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

10. Does your firm consider itself to be an MBE, WBE or DBE?

YES  NO

If answer is "YES," attach a copy of certification.

11. Number of employees: \_\_\_\_\_ including \_\_\_\_\_ employees in the State of Alaska.

## 1.2 PART III-CONTRACTING HISTORY

1. Has the Proposer been awarded any contracts within the last five years by ARRC, the State of Alaska, or any other public entity for the same or reasonably similar goods or services sought by this solicitation? If none, answer "No". If yes, on a separate sheet of paper describe those contracts beginning with the most recent. State the name of the contracting entity; give a brief description of the contract and the contract number, the dollar amount at award and at completion, date completed; state the contract period, the status of the contract, and the name, address, and telephone number of a contact person at the agency. Indicate if award was made to Proposer as prime contractor or joint venture. Proposer need not provide more than three such descriptions.

YES  NO

2. Has the Proposer been awarded any private sector contracts within the last five years for the same or reasonably similar goods or services sought by this solicitation? If none, answer "No." If yes, on a separate sheet of paper provide the name and address of the contracting entity, a brief description of work, the dollar amount at award and at completion, date completed, status of the contract and name, address and telephone number of contact person as to each, beginning with the most recent. Indicate if Proposer acted as prime contractor or joint venture. Proposers need not provide more than three such descriptions.

YES  NO

**NOTE: ANY "YES" ANSWERS TO #3 BELOW MUST BE FULLY EXPLAINED ON A SEPARATE SHEET OF PAPER AND ATTACHED TO THIS QUESTIONNAIRE.**

3. In the past five years has the Proposer been the subject of any of the following actions?

A. Been suspended, debarred, disqualified, or otherwise declared ineligible to bid?

YES  NO

B. Failed to complete a contract for a public or private entity?

YES  NO

C. Been denied a low-bid contract in spite of being the low bidder?

YES  NO

D. Had a contract terminated for any reason, including default?

YES  NO

E. Had liquidated damages assessed against it during or after completion of a contract?

YES  NO

F. Been a defaulter, as principal, surety or otherwise?

YES  NO

G. Been denied an award of a public contract based upon a finding by a public agency that your company was not a responsible contractor?

YES  NO

H. A public entity requested or required enforcement of any of its rights under a surety agreement on the basis of your company's default or in lieu of declaring your company in default?

YES  NO

I. Been denied a performance or payment bond by a surety company?

YES  NO

J. Been required to pay back wages and/or penalties for failure to comply with state or federal prevailing wage or overtime laws?

YES  NO

4. Does Proposer currently possess the financial, organizational, technical, equipment, facilities, and other resources necessary to supply the goods or services sought by this solicitation? If no, on a separate sheet of paper describe how you intend to obtain the resources necessary to supply the goods or services sought by this solicitation.

YES  NO

5. Does Proposer have any present or anticipated commitments and/or contractual obligations that might impact its ability to meet the required delivery or performance requirements

of this solicitation? If yes, on a separate sheet of paper describe any apparent conflicts as between the requirements/commitments for this solicitation with respect to the use of Proposer's resources, such as management, technical expertise, financing, facilities, equipment, etc.

YES  NO

#### **PART IV-CIVIL ACTIONS**

**If "Yes" to Parts IV or V, provide details on a separate sheet of paper including a brief summary of cause(s) of action; indicate if Proposer, its principals, officers or partners were plaintiffs or defendants; define charges explicitly, by what authority, court or jurisdiction, etc. In the case of tax liens, please indicate whether the liens were resolved with the tax authorities. Please submit proof of payment or agreements to pay the liens. Complete details are required!**

1. Violations Of Civil Law. In the past five years has Proposer, any of its principals, officers or partners been the subject of an investigation of any alleged violation of a civil antitrust law, or other federal, state or local civil law?

YES  NO

2. Lawsuits With Public Agencies. At the present time is, or during the past five years has Proposer, any of its principals, officers or partners been a plaintiff or defendant in any lawsuit or arbitration regarding services or goods provided to a public agency?

YES  NO

3. Bankruptcy. During the past five years, has the Proposer filed for bankruptcy or reorganization under the bankruptcy laws?

YES  NO

4. Judgments, Liens And Claims. During the past five years, has the Proposer been the subject of a judgment, lien or claim of \$25,000 or more by a subcontractor or supplier?

YES  NO

5. Tax Liens. During the past five years, has the Proposer been the subject of a tax lien by federal, state or any other tax authority?

YES  NO

#### **PART V-COMPLIANCE WITH LAWS AND OTHER REGULATIONS**

1. Criminal: In the past five years has the Proposer, any of its principals, officers, or partners been convicted or currently charged with any of the following:

A. Fraud in connection with obtaining, attempting to obtain, or performing a public contract, agreement or transaction?

YES  NO

B. Federal or state antitrust statutes, including price fixing collusion and bid rigging?

YES  NO

C. Embezzlement, theft, forgery, bribery, making false statements, submitting false information, receiving stolen property, or making false claims to any public agency?  
YES  NO

D. Misrepresenting minority or disadvantaged business entity status with regard to itself or one of its subcontractors?  
YES  NO

E. Non-compliance with the prevailing wage requirements of the State of Alaska or similar laws of any other state?  
YES  NO

F. Violation of any law, regulation or agreement relating to a conflict of interest with respect to a government funded procurement?  
YES  NO

G. Falsification, concealment, withholding and/or destruction of records relating to a public agreement or transaction?  
YES  NO

H. Violation of a statutory or regulatory provision or requirement applicable to a public or private agreement or transaction?  
YES  NO

I. Do any principals, officers or partners in Proposer's company have any felony charges pending against them that were filed either before, during, or after their employment with the Proposer?  
YES  NO

2. Regulatory Compliance. In the past five years, has Proposer or any of its principals, officers or partners:

A. Been cited for a violation of any labor law or regulation, including, but not limited to, child labor violations, failure to pay correct wages, failure to pay into a trust account, failure to remit or pay withheld taxes to tax authorities or unemployment insurance tax delinquencies?  
YES  NO

B. Been cited and assessed penalties for an OSHA or Alaska/OSHA "serious violation" ?  
YES  NO

C. Been cited for a violation of federal, state or local environmental laws or regulations?  
YES  NO

D. Failed to comply with Alaska corporate registration, federal, state or local licensing requirements?  
YES  NO



E. Had its corporate status, business entity's license or any professional certification, suspended, revoked, or had otherwise been prohibited from doing business in the State of Alaska?

YES  NO

**PART VI-FINANCIAL**

**Copies of the following documents are to be submitted with this Questionnaire:**

1. Proposer's current Alaska Business License, if required by state law.
2. Proposer's Financial Statements may be requested:

A. PUBLICLY TRADED COMPANIES: Financial information will be accessed on-line. However, if additional information is needed, it will be specifically requested from the Proposer.

B. NON-PUBLICLY TRADED COMPANIES WITH AUDITED OR REVIEWED FINANCIAL STATEMENTS: Statements, including balance sheet, statement of earnings and retained income, with footnotes, for the most recent three years **may be requested.**

**NOTE: ARRC reserves the right to ask for additional documentation if it is reasonably required to make a determination of integrity and responsibility relevant to the goods or services the Proposer will provide to ARRC if awarded a contract. All financial information provided is considered confidential and not subject to public disclosure under Alaska law.**



# ALASKA RAILROAD CORPORATION – SUBCONTRACTOR LIST

[First Tier Subcontractors Only]

The apparent low bidder shall complete this form and submit it so as to be received by the Contracting Officer prior to the close of business on the **Fifth (5<sup>th</sup>) Working Day** after receipt of written notice from the Alaska Railroad Corporation.

Failure to submit this form with all required information by the due date will result in the bidder being declared non-responsive and may result in the forfeiture of the Bid Security.

Scope of work must be clearly defined. If an item of work is to be performed by more than one (1) firm, indicate the portion or percent of work to be done by each.

Check as applicable:  All work on the below-referenced project will be accomplished without subcontracts greater than ½ of 1% of the contract amount, or;  
 Subcontractor List is as follows:

FIRM NAME, ADDRESS,	BUSINESS LICENSE NUMBER AND CONTRACTOR'S REGISTRATION NUMBER	SCOPE OF WORK TO BE PERFORMED	TOTAL DOLLAR AMOUNT OF WORK

[CONTINUE SUBCONTRACTOR INFORMATION ON ADDITIONAL SHEET]

**I hereby certify that the above-listed licenses and registrations were valid at the time bids were received for this project. For contracts involving Federal-aid funding, Alaska Business License and Contractor Registration will be required prior to award of a subcontract.**

\_\_\_\_\_  
COMPANY NAME

\_\_\_\_\_  
SIGNATURE BY AND FOR THE BIDDER

\_\_\_\_\_  
COMPANY ADDRESS

\_\_\_\_\_  
PRINTED NAME OF BIDDER

\_\_\_\_\_  
COMPANY ADDRESS

\_\_\_\_\_  
DATE OF BID

\_\_\_\_\_  
CONTACT PHONE NUMBER

\_\_\_\_\_  
CONTACT FAX NUMBER

Form 395-0131

# ALASKA RAILROAD CORPORATION – SAMPLE CONSTRUCTION CONTRACT

Contract Number: \_\_\_\_\_ OC

This CONTRACT, between the ALASKA RAILROAD CORPORATION, herein called ARRC, acting by and through its Contracting Officer, and \_\_\_\_\_.

A Corporation, incorporated under the laws of the State of Alaska, its successors and assigns, hereinafter called the Contractor, is effective the date of the signature of the Contracting Officer on this document.

**Billing Information:** Invoices shall be submitted to Accounts Payable, Alaska Railroad Corporation, PO Box 107500, Anchorage, AK 99510-7500. Please reference your contract number on all invoices and correspondence.

**WITNESSETH:** That the Contractor, for and in consideration of the payment or payments herein specified and agreed to by ARRC, hereby covenants and agrees to furnish and deliver all the materials and to do and perform all the work and labor required in the construction of the following project: **ITB 21-11-208873 Whittier Yard: Lower 1 and Lower 2 Track Improvements** at the prices bid by the Contractor for the respective estimated quantities aggregating approximately the sum of: **Bid amount \_\_\_\_\_ dollars and /cents (\$\_\_\_\_\_.00)** for the Base Bid and such other items as are mentioned in the original Bid, which Bid and prices named, together with the Contract Documents (Invitation to Bid, Addenda & Contract) and Contractors Bid are made a part of this Contract and accepted as such, the project being situated between the Alaska Railroad stations of Potter and Girdwood, Alaska.

It is distinctly understood and agreed that no claim for additional work or materials, done or furnished by the Contractor and not specifically herein provided for shall be allowed by ARRC, nor shall the Contractor do any work or furnish any material not covered by this Contract, unless such work is ordered in writing by ARRC. In no event shall ARRC be liable for any materials furnished or used, or for any work or labor done, unless the materials, work, or labor are required by the Contract or on written order furnished by ARRC. Any such work or materials which may be done or furnished by the Contractor without written order first being given shall be at the Contractor's own risk, cost, and expense and the Contractor hereby covenants and agrees to make no claim for compensation for work or materials done or furnished without any such written order.

The Contractor further covenants and agrees that all materials shall be furnished and delivered and all labor shall be done and performed, in every respect, to the satisfaction of ARRC by **October 15, 2021**.

It is expressly understood and agreed that in case of the failure on the part of the Contractor, for any reason, except with the written consent of ARRC, to complete the furnishing and delivery of materials and the doing and performance of the work before the aforesaid date, ARRC shall have the right to deduct from any money due or which may become due the Contractor, or if no money shall be due, ARRC shall have the right to recover liquidated damages as spelled out in General Conditions, Construction. The bonds given by the Contractor in the sum of: **100% of Bid Amount \$\_\_\_\_\_ Payment Bond, and 100% of Bid Amount \$\_\_\_\_\_ Performance Bond**, to secure the proper compliance with the terms and provisions of this Contract, are submitted herewith and made a part hereof.

**IN WITNESS WHEREOF**, the parties hereto have executed this Contract and hereby agree to its terms and conditions.

---

**CONTRACTOR**

\_\_\_\_\_  
Name of Contractor

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

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

(Corporate Seal)

---

**ALASKA RAILROAD CORPORATION**

\_\_\_\_\_  
Contracting Officer (Signature)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Typed or Print Name

**ALASKA RAILROAD CORPORATION – PAYMENT BOND**

**KNOW ALL PERSONS BY THESE PRESENTS:**

That \_\_\_\_\_  
of: \_\_\_\_\_ as Principal,  
and \_\_\_\_\_  
of: \_\_\_\_\_ as Surety,  
firmly bound and held unto the Alaska Railroad Corporation in the penal sum of \_\_\_\_\_ Dollars (\$ \_\_\_\_\_), good and lawful money of the United States of America for the payment whereof, well and truly to be paid to the Alaska Railroad Corporation, we bind ourselves, our heirs, successors, executors, administrators, and assigns, jointly and severally, firmly by these presents.

**WHEREAS**, the said Principal has entered into a written contract with said Alaska Railroad Corporation, on the \_\_\_\_\_ of \_\_\_\_\_, 20\_\_\_\_\_, for \_\_\_\_\_, said work to be done according to the terms of said contract. **ARRC Project: ITB 21-11-208873 Whittier Yard: Lower 1 and Lower 2 Track Improvements**

**NOW, THEREFORE**, the conditions of the foregoing obligation is such that if the said Principal shall comply with all requirements of law and pay, as they become due, all just claims for labor performed and materials and supplies furnished upon or for the work under said contract, whether said labor be performed and said materials and supplies be furnished under the original contract, any subcontract, or any and all duly authorized modifications thereto, then these presents shall become null and void; otherwise they shall remain in full force and effect.

**IN WITNESS WHEREOF**, We have hereunto set our hands and seals this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

Principal: \_\_\_\_\_

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

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

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

By: \_\_\_\_\_

By: \_\_\_\_\_

Surety: \_\_\_\_\_

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

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

By: \_\_\_\_\_

By: \_\_\_\_\_

The offered bond has been checked for adequacy under the applicable statutes and regulations:

\_\_\_\_\_  
Alaska Railroad Corporation [Authorized Representative]      Date  
(Instructions on Next Page)



## **INSTRUCTIONS**

1. This form, for the protection of persons supplying labor and material, shall be used whenever a payment bond is required. There shall be no deviation from this form without approval from the Contracting Officer.
2. The full legal name, business address, telephone number, and point of contact of the Principal and Surety shall be inserted on the face of the form. Where more than a single surety is involved, a separate form shall be executed for each surety.
3. The penal amount of the bond, or in the case of more than one surety the amount of obligation, shall be entered in words and in figures.
4. The bond shall be signed by authorized persons. Where such persons are signing in a representative capacity (e.g., an attorney-in-fact), but is not a member of the firm, partnership, or joint venture, or an officer of the corporation involved, evidence of authority must be furnished.

# ALASKA RAILROAD CORPORATION – PERFORMANCE BOND

## KNOW ALL PERSONS BY THESE PRESENTS:

That \_\_\_\_\_  
of: \_\_\_\_\_ as Principal,  
and \_\_\_\_\_  
of: \_\_\_\_\_ as Surety,  
firmly bound and held unto the Alaska Railroad Corporation in the penal sum of \_\_\_\_\_ Dollars (\$ \_\_\_\_\_), good and lawful money of the United States of America for the payment whereof, well and truly to be paid to the Alaska Railroad Corporation, we bind ourselves, our heirs, successors, executors, administrators, and assigns, jointly and severally, firmly by these presents.

**WHEREAS**, the said Principal has entered into a written contract with said Alaska Railroad Corporation, on the \_\_\_\_\_ of \_\_\_\_\_, 20\_\_\_\_, for \_\_\_\_\_, said work to be done according to the terms of said contract. **ARRC Project: ITB 21-11-208873 Whittier Yard: Lower 1 and Lower 2 Track Improvements**

**NOW, THEREFORE**, the conditions of the foregoing obligation is such that if the said Principal shall well and truly perform and complete all obligations and work under said contract and if the Principal shall reimburse upon demand of the Alaska Railroad Corporation any sums paid him/her which exceed the final payment determined to be due upon completion of the project, then these presents shall become null and void; otherwise they shall remain in full force and effect.

**IN WITNESS WHEREOF**, We have hereunto set our hands and seals this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

Principal: \_\_\_\_\_

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

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

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

By: \_\_\_\_\_

By: \_\_\_\_\_

Surety: \_\_\_\_\_

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

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

By: \_\_\_\_\_

By: \_\_\_\_\_

The offered bond has been checked for adequacy under the applicable statutes and regulations:

\_\_\_\_\_  
Alaska Railroad Corporation

\_\_\_\_\_  
[Authorized Representative]

\_\_\_\_\_  
Date

(Instructions on Next Page)

## **INSTRUCTIONS**

1. This form shall be used whenever a performance bond is required. There shall be no deviation from this form without approval from the Contracting Officer.
2. The full legal name, business address, telephone number, and point of contact of the Principal and Surety shall be inserted on the face of the form. Where more than a single surety is involved, a separate form shall be executed for each surety.
3. The penal amount of the bond, or in the case of more than one surety the amount of obligation, shall be entered in words and in figures.
4. The bond shall be signed by authorized persons. Where such persons are signing in a representative capacity (e.g., an attorney-in-fact), but is not a member of the firm, partnership, or joint venture, or an officer of the corporation involved, evidence of authority must be furnished.

## APPENDIX J – Cost Schedule

**COST SCHEDULE:** A Bidder's Failure to provide the information requested in this Appendix may be cause for rejection of the bid on the basis on non-responsiveness. Cost shall be bid in accordance to all specifications in Appendix C, and any Technical Specifications incorporated herein.

**AWARD CRITERIA:** A contract award resulting from this solicitation may be made to the low, responsive, responsible bidder who meets the requirements as set forth in the plans and specifications and compliance thereof. An award may be made in the aggregate of Base Bid and or any combination of Base Bid and Add Alternates, whichever is deemed by the Contract Administrator to be in the best interest of the ARRC. The successful bidder shall hold unit prices of all additives firm for a period of thirty (30) days from the date of bid opening. Award is contingent on the availability of ARRC funds.

<b>BASE BID ITEMS</b>					
Item No.	Item Description	Unit	Quantity <sup>2</sup>	Unit Bid Price	Amount Bid
1	Mobilization and Demobilization <i>(640.0001.1)</i>	Lump Sum	1		
2	Removal of Track <i>(202.0024.1)</i>	Lump Sum	1		
3	Removal of Pavement <i>(202.0002.1)</i>	SY	2510		
4	Unclassified Excavation <i>(203.0003.1)</i>	Cubic Yard	2740		
5	Selected Material, Type A <i>(203.0006.1)</i>	Ton	3070		
6	Aggregate Base Course, Grading D-1 <i>(301.0001.1)</i>	Ton	1530		
7	Geotextile, Separation, Class 3 <i>(630.0001.1)</i>	SY	3050		
8	Railroad Crossings <i>(617.0001.1)</i>	Lump Sum	1		
9	Trackwork, 115# RE Rail <i>(244.0001.1)</i>	Lump Sum	1		
10	Hot Mix Asphalt, Type II: Class A <i>(401.0001.1)</i>	Ton	420		
10.1	Rail Flange Paving <i>(401.0001.2)</i>	Lump Sum	1		
11	Construction Surveying <i>(642.0001.1)</i>	Lump Sum	1		
12	Erosion, Sediment and Pollution Control Administration <i>(641.0001.1)</i>	Lump Sum	1		
<b>Total Base Bid :</b>					

ADDITIVE ALTERNATE BID ITEMS <sup>1</sup>					
Item No.	Item Description	Unit	Quantity <sup>2</sup>	Unit Bid Price	Amount Bid
A1	Selected Material, Type A	Ton	3070		
A2	Aggregate Base Course, Grading D-1	Ton	1530		
A3	Heavy Equipment Support	Hour	20		

Notes:

<sup>1</sup> Award of Additive Alternate Bid items is dependent on Owner finances. The successful bidder will be notified of the Owner's intent to award additional work prior to receiving a Contract or Notice to Proceed (NTP).

<sup>2</sup> Bid quantities are approximate. Contractor is responsible for their own quantity take-offs using the information within the Contract Documents to verify the quantities in the Cost Schedule.

**NON-COLLUSION AFFIDAVIT:** The Undersigned declares, under penalty of perjury under the laws of the United States, that neither he/she nor the firm, association, or corporation of which he/she is a member, has, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this Bid.

The Undersigned has read the foregoing proposal and hereby agrees to the conditions stated therein by affixing his/her signature below:

**BIDDERS NAME AND ADDRESS**

\_\_\_\_\_  
COMPANY NAME

\_\_\_\_\_  
SIGNATURE BY AND FOR THE BIDDER

\_\_\_\_\_  
COMPANY MAILING ADDRESS

\_\_\_\_\_  
PRINTED NAME OF ABOVE BIDDER

\_\_\_\_\_  
CITY, STATE ZIP CODE

\_\_\_\_\_  
DATE OF BID

\_\_\_\_\_  
CONTACT PHONE NUMBER

\_\_\_\_\_  
CONTACT E-MAIL

# ATTACHMENTS

## 1 - ARRC – Lower 1 and Lower 2 Track Improvements Plan Set



Plan Set  
4.5.2021.pdf

## 2 - OMNI Products, Inc. Installation Documents



Tracast 2  
Installation Instructi



Tracast 2 Lifting  
Plan.pdf



Panel Drawing.pdf

## 3 - ARRC Standard Plans



ARRC Standard  
Turnout.pdf



ARRC Standard  
Plan 1.13.pdf



ARRC Standard  
Plan 1.22-03.pdf



ARRC Standard  
Plan 3.1.pdf

## 4 - ARRC Sample Daily Report Format



ARRC - Sample  
Daily Report

## 5 - Pamphlet 600; Issue 41 Effective September 01, 2020

[https://labor.alaska.gov/lss/forms/Pamphlet\\_600\\_Issue\\_41.pdf](https://labor.alaska.gov/lss/forms/Pamphlet_600_Issue_41.pdf)