

## ARRC MP52.2 RETAINING WALL PERMANENT REPAIRS

Invitation to Bid 22-43-209968

JUNE 23, 2022

ALASKA RAILROAD CORPORATION 327 WEST SHIP CREEK AVENUE ANCHORAGE, ALASKA 99501 THIS PAGE INTENTIONALLY LEFT BLANK



ALASKA RAILROAD CORPORATION
327 W. Ship Creek Avenue
Anchorage, AK 99501
Phone 907-265-2355
Fax 907-265-2439
BatesT@akrr.com

# INVITATION TO BID #22-43-209968

## **ARRC MP52.2 Retaining Wall Permanent Repairs**

<u>Response Required</u>: This page must be completed and returned to ensure receipt of future addenda or additional information. Please e-mail this form to <a href="mailto:BatesT@akrr.com">BatesT@akrr.com</a>. 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: <a href="www.alaskarailroad.com">www.alaskarailroad.com</a>, 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	

www.AlaskaRailroad.com

INVITATION TO BID NUMBER: 22-43-209968

DATE OF INVITATION TO BID: June 23, 2022

INVITATION TO BID
ALASKA RAILROAD CORPORATION
CONTRACTS SECTION
POST OFFICE BOX 107500
ANCHORAGE, ALASKA 99510-7500
ATTENTION: TIM BATES (907) 265-2355
BatesT@akrr.com

# ALASKA RAILROAD CORPORATION MP52.2 RETAINING WALL PERMANENT REPAIRS

SEALED OR E-MAILED BIDS WILL BE RECEIVED **UNTIL 3:00 PM LOCAL TIME ON TUESDAY**, **JULY 19, 2022** AT WHICH TIME BIDS WILL BE PUBLICLY OPENED:

Alaska Railroad Corporation Attn. Tim Bates, 2<sup>nd</sup> Floor 327 W. Ship Creek Avenue Anchorage, Alaska 99501

#### **IMPORTANT**

<u>Pre-Bid Conference and /Site Visit</u>: A pre-bid conference and virtual site visit will be held on **June 30, 2021 at 8:30 AM AKDT**. Interested bidders will meet at the ARRC Portage Passenger Depot (south end). <u>Please dress appropriately for track safety, high-vis vests, safety shoes and hard hats are required</u>. This is not a mandatory meeting, although interested firms are encouraged to participate. A bidder's failure to attend the pre-bid conference will in no way relieve the bidder of the responsibility of performing the work in strict compliance with the true intent and meaning of the terms, conditions and specifications of this ITB.

Your bid package (qualifications and bids) must be complete. See instructions and conditions enclosed. Return bid packages in sealed envelopes according to the instructions in 22-43-209968. Bids received by facsimile transmission will not be considered for award. Bids shall be submitted on the forms furnished herein. Hand-delivered bids, amendments, or withdrawals must be received by ARRC's Contracts Section prior to the date and time listed above.

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. Any resulting contract from this Invitation to Bid shall incorporate the Standard Instructions, and General Terms and Conditions incorporated in this Invitation to Bid.

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

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 on federal contracts of 4.0 % in FY 2022-2024. 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 (<a href="www.greenstarinc.org">www.greenstarinc.org</a>). 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 ITB to Tim Bates, Alaska Railroad Corporation, Contracts, 327 Ship Creek Avenue, Second Floor, Anchorage, AK 99501, telephone number 907-265-2355, fax number 907-265-2439 or at email address <a href="mailto:BatesT@akrr.com">BatesT@akrr.com</a>.

Sincerely,

Tim Bates

Tim Bates Contract Administrator

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2 – ARRC MP 52.14 Temp Alignment Plans

3 – ARRC MP 52 Vicinity Map

4 – ARRC Flat Car Drawings

5 – Support Documents

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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 J
- 4. Questionnaire [Form 395-0136]
- 5. Federal Requirements: Appendix D:

25. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING – 31USC 1352, 49 CFR Part 19, 20

**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

**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

#### 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;
- 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.

**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 outlines 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 (<a href="www.access.gpo.gov/davisbacon/">www.access.gpo.gov/davisbacon/</a>) or from the DOLWD (<a href="www.labor.state.ak.us/lss/home.htm">www.labor.state.ak.us/lss/home.htm</a>). 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 join 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 <u>original signature</u>.
- vii. Stamp or write "Confidential" on the certified payroll to help ensure the privacy of contractor employees.

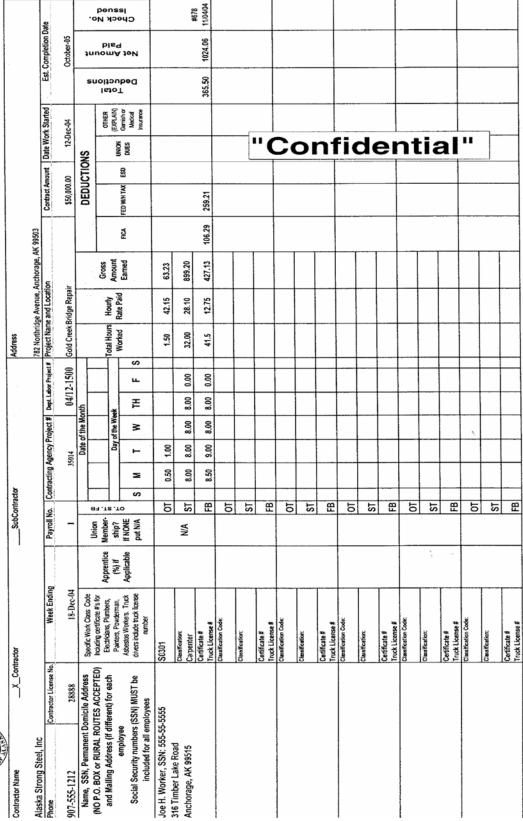
Failure to submit timely, complete, and accurate weekly certified payrolls to ARRC may result in the delay of payment on the contract. Sample copies of DOLWD certified payroll forms with the "Statement of Compliance" are shown in Appendix A.

#### APPENDIX B-1: State of Alaska Certified Payroll Form, 07-6058

# Alaska Department of Labor & Workforce

CERTIFIED PAYROLL

Development
Labor Standards & Safety Division
Wage & Hour Administration





#### 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° Region II, South of N63° Region IIA, Southeast Alaska (From Yakutat south)

Labor Standards & Safety Div, DOLWD 675 7th Ave., Station J-1 Fairbanks, AK 99701-4593 (907) 451-2886 Fax: (907) 451-2885

Labor Standards & Safety Div, DOLWD 3301 Eagle Street, Suite 301 Anchorage, AK 99503-4149 (907) 269-4900 Fax: (907) 269-4915

Labor Standards & Safety, DOLWD P. O. Box 21149 1111 W. 8th Street, Rm 302 Juneau, AK 99801 (907) 465-4842 Fax: (907) 465-3584

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.

22-Dec-04

Weekly Form pg. 2 - Effective 7/1/2003

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.

(2) That Alaska Strong Steel, Inc.

	(Contractor / Subcontractor)
Jane Doe, President do hereby state	is in full compliance with the provisions set forth in AS 36.10,
(Name of Signatory Party) (Title)	which requires employment preference for Alaska residents as
(1) That I pay or supervise the payment of persons employed by	outlined in AS 36.95.010; and
Alaska Strong Steel, Inc. on the	(3) That any payrolls otherwise under this contract required
(Contractor / Subcontractor)	to be submitted for the above period are correct and complete;
Gold Creek Bridge Project ; that during the payroll	that the wage rages for laborers, mechanics or field surveyors
(Building or Work)	contained herein are not less than the current applicable wage
period commencing on 12-Dec-04, and ending on (date)	rates established by the DOLWD; that the classification set forth therein for each laborer, mechanic or field surveyor conforms
18-Dec-04, all persons employed on said project have (date)  deen paid full weekly wages earned, that no rebates have seen or will be made either directly or indirectly to or on behalf of aid	with the work performed; and  (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
Alaska Strong Steel, Inc.	Department of Labor, or if no such agency exists in the State,
(Contractor / Subcontractor)  from the full weekly wages earned by an person, and that no leductions have been made either directly or indirectly from the ull wages earned by any person, other than permissible leductions, 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), ssued by the Secretary of Labor under the Copeland Act, as immended (48 Stat. 948; 63 Stat. 108; 72 Stat. 967; 76 Stat. 357; 10 USC 276 (c), and described below:	are registered with the Bureau of Apprenticeship and Training, United States Department of Labor; or (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  (6) That where fringe benefits are paid to approved plans, funds or programs: (check all applicable items)  (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
and;	have been or will be made to a union trust.  (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.
Maeldy Form on 2 - Effective 7/1/2003 Rev Aug 2005	Fringe benefit payments will be made at least quarterly to an approved plan. The name of the plan is:

X (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:

Explanation

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 sig	nature required)

Name & Title (print or type)

Jane Doe, President

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### **APPENDIX C** – Scope of Work

Replacement of a legacy retaining structure at Alaska Railroad Corporation (ARRC)'s Mile Post (MP) 52.26 near Portage, Alaska. The legacy retaining structure is comprised of steel piles and timber lagging that retains the shot rock embankment underneath the ARRC's Mainline Track. The wall is approximately 105 feet long, approximately 12-feet offset from the original rail alignment (up to 20-feet from the emergency repair re-alignment) and is situated between ARRC Tunnel 2 (\*MP 52.1) and Tunnel 3 (\*MP 52.3).

During the fall 2021 storm event that occurred between 31 October 2021 and 01 November 2021, the legacy retaining structure sustained heavy damage resulting in the track being out of service. Although emergency repairs were completed, prior to the natural disaster, the original structure was deemed to not meet current engineering codes and standards; therefore the structure is in need of replacement.

The Contractor's scope of work will include, but is not limited to, the following: removal of existing structure(s), following construction of the replacement structure (as indicated in the Plans), disposal of legacy structure elements, installation of rock socketed soldier piles, installation of PS-31 sheet pile lagging, installation of Walers and anchors to support the wall, placement of classified fill, and assisting the ARRC with any track work associated with the replacement of the legacy structure.

The project work is to occur during the nighttime hours, during summer Passenger Train Season, and under live traffic.

#### **APPENDIX D**

# REQUIRED CONTRACT PROVISIONS FOR FEDERAL-AID CONTRACTS [Revised April 20, 2021]

The following contract provisions shall apply, where applicable, to all work performed on the contract by the contractor's own organization and by subcontractors. As provided in this Section, the contractor shall insert in each subcontract all of the stipulations contained in these Required Contract Provisions and further require their inclusion in any lower tier subcontracts or purchase orders that may in turn be made. Incorporation by reference shall not be allowed. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with all applicable Required Contract Provisions.

1. <u>CARGO PREFERENCE REQUIREMENTS</u> - 46 USC 55305; 46 CFR Part 381 [Applicable to all Federal-aid contracts involving equipment, materials or commodities which may be transported by ocean vessel]

Cargo Preference-Use of United States Flag Vessels - The contractor agrees: a. to use privately owned United States-Flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to the underlying contract to the extent such vessels are available at fair and reasonable rates for United States-Flag commercial vessels; b. to furnish within twenty (20) working days following the date of loading for shipments originating within the United States or within thirty (30) working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, "on-board" commercial ocean bill-of-lading in English for each shipment of cargo described in the preceding subsection to the Division of Cargo Preference and Domestic Trade, Maritime Administration, 1200 New Jersey Avenue, SE, Washington, D.C. 20590 and to ARRC (through the contractor in the case of a subcontractor's bill-of-lading), marked with appropriate identification of the project; c. to include these requirements in all subcontracts issued pursuant to this contract when the subcontract may involve the transport of equipment, material, or commodities by ocean vessel.

DEBARMENT. SUSPENSION. INELIGIBILITY & VOLUNTARY EXCLUSION - 2 CFR Part 180 & Part 1200; 2 CFR 200.213; Executive Orders 12549 & 12689 [Applicable to all Federal-aid contracts which exceed \$25,000]

The Contractor shall comply and facilitate compliance with U.S. DOT regulations, "Non-procurement Suspension and Debarment," 2 CFR Part 1200, which adopts and supplements the U.S. Office of Management and Budget (U.S. OMB) "Guidelines to Agencies on Government-wide Debarment and Suspension (Non-procurement)," 2 CFR Part 180. As such, the Contractor shall verify that its principals, affiliates, and subcontractors are eligible to participate in this federally funded contract and are not presently declared by any Federal department or agency to be:

- a) Debarred from participation in any federally assisted Award;
- b) Suspended from participation in any federally assisted Award;
- c) Proposed for debarment from participation in any federally assisted Award;
- d) Declared ineligible to participate in any federally assisted Award;
- e) Voluntarily excluded from participation in any federally assisted Award; or
- f) Disqualified from participation in ay federally assisted Award.

# (a) By signing this contract and/or submitting its bid or proposal, the Contractor, bidder or proposer certifies as follows:

The certification in this clause is a material representation of fact relied upon by the ARRC. If it is later determined by the ARRC that the Contractor, bidder or proposer knowingly rendered an erroneous certification, in addition to remedies available to the ARRC, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment. The Contractor, bidder or proposer agrees to comply with the requirements of 2 CFR Part 180, subpart C, as supplemented by 2 CFR Part 1200, while its offer is valid and throughout the period of any contract that may arise from its offer. The contractor, bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions.

- 3. <u>DAVIS-BACON AND COPELAND ANTI-KICKBACK ACTS</u> 40 USC 3141-3148; 49 USC 5333(a); 29 CFR Part 5; 2 CFR Part 200, App. II (D) [Applicable to all Federal-aid construction contracts which exceed \$2,000]
- (1) Minimum wages (i) All laborers and mechanics employed or working upon the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project), will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph (1)(iv) of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR Part 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein, provided the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classifications and wage rates conformed under paragraph (1)(ii) of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

- (ii)(A) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:
- (1) Except with respect to helpers as defined as 29 CFR 5.2(n)(4), the work to be performed by the classification requested is not performed by a classification in the wage determination; and
- (2) The classification is utilized in the area by the construction industry; and
- (3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination; and
- (4) With respect to helpers as defined in 29 CFR 5.2(n)(4), such a classification prevails in the area in which the work is performed.
- (B) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.
- (C) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

- (D) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs (a)(1)(ii) (B) or
- (C) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.
- (iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.
- (iv) If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.
- (v)(A) The contracting officer shall require that any class of laborers or mechanics which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:
- (1) The work to be performed by the classification requested is not performed by a classification in the wage determination; and
- (2) The classification is utilized in the area by the construction industry; and
- (3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.
- (B) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.
- (C) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination with 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.
- (D) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs (a)(1)(v) (B) or
- (C) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.
- Withholding ARRC shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the contractor under this contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project), all or part of the wages required by the contract, ARRC may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

- (3) Payrolls and basic records - (i) Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work (or under the United States Housing Act of 1937, or under the Housing Act of 1949, in the construction or development of the project). Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.
- (ii)(A) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to ARRC for transmission to the Federal grantor agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under section 5.5(a)(3)(i) of Regulations, 29 CFR part 5. This information may be submitted in any form desired. Optional Form WH- 347 is available for this purpose and may be purchased from the Superintendent of Documents (Federal Stock Number 029-005-00014-1), U.S. Government Printing Office, Washington, DC 20402. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors.
- (B) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:
- (1) That the payroll for the payroll period contains the information required to be maintained under section 5.5(a)(3)(i) of Regulations, 29 CFR part 5 and that such information is correct and complete;
- (2) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;
- (3) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.
- (C) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph (a)(3)(ii)(B) of this section.
- (D) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.
- (iii) The contractor or subcontractor shall make the records required under paragraph (a)(3)(i) of this section available for inspection, copying, or transcription by authorized representatives of the Federal grantor agency or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the Federal agency may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.
- (4) Apprentices and trainees (i) Apprentices Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State Apprenticeship Agency recognized by the Bureau, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an

apprenticeship program, who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator of the Wage and Hour Division of the U.S. Department of Labor determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Bureau of Apprenticeship and Training, or a State Apprenticeship Agency recognized by the Bureau, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

- Trainees Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.
- (iii) <u>Equal employment opportunity</u> The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.
- (5) Compliance with Copeland Act requirements The contractor shall comply with the requirements of 29 CFR Part 3, which are incorporated by reference in this contract.
- **Subcontracts** The contractor or subcontractor shall insert in any subcontracts the clauses contained in 29 CFR 5.5(a)(1) through (10) and such other clauses as the Federal Transit Administration may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.
- (7) Contract termination: debarment A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.
- (8) Compliance with Davis-Bacon and Related Act requirements All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.
- (9) Disputes concerning labor standards Disputes arising out of the labor standards provisions of this

contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

- (10) Certification of eligibility (i) By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).
- (ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).
- (iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 USC 1001.
- 4. <u>CONTRACT WORK HOURS AND SAFETY STANDARDS ACT</u> 40 USC 3701-3708.; 29 CFR Part 5; 29 CFR 1926; 2 CFR Part 200, App. II (E) [Applicable to all Federal-aid construction in excess of \$100,000 and all nonconstruction contracts which employ mechanics and laborers on a public work in excess of \$100,000]
- **A. Overtime** (Applicable to construction and nonconstuction contracts)
- (1) Overtime requirements No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.
- Violation; liability for unpaid wages; liquidated damages In the event of any violation of the clause set forth in paragraph (1) of this section the contractor and any subcontractor responsible therefore shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1) of this section.
- (3) Withholding for unpaid wages and liquidated damages ARRC shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2) of this section.
- (4) Subcontracts The contractor or subcontractor shall insert in any subcontracts the clauses set forth in this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in this section.
- (5) Payrolls and basic records (i) Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of

the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

- **B.** Contract Work Hours and Safety Standards Act (Applicable to construction contracts only) (i) The Contractor agrees to comply with section 107 of the Contract Work Hours and Safety Standards Act, 40 USC § 333, and applicable DOL regulations, "Safety and Health Regulations for Construction" 29 CFR Part 1926. Among other things, the Contractor agrees that it will not require any laborer or mechanic to work in unsanitary, hazardous, or dangerous surroundings or working conditions.
- (ii) **Subcontracts** The Contractor also agrees to include the requirements of this section in each subcontract. The term "subcontract" under this section is considered to refer to a person who agrees to perform any part of the labor or material requirements of a contract for construction, alteration or repair. A person who undertakes to perform a portion of a contract involving the furnishing of supplies or materials will be considered a "subcontractor" under this section if the work in question involves the performance of construction work and is to be performed: (1) directly on or near the construction site, or (2) by the employer for the specific project on a customized basis. Thus, a supplier of materials which will become an integral part of the construction is a "subcontractor" if the supplier fabricates or assembles the goods or materials in question specifically for the construction project and the work involved may be said to be construction activity. If the goods or materials in question are ordinarily sold to other customers from regular inventory, the supplier is not a "subcontractor." The requirements of this section do not apply to contracts or subcontracts for the purchase of supplies or materials or articles normally available on the open market.
- 5. <u>FEDERAL WATER POLLUTION CONTROL ACT</u>- 33 USC 1251-1387; 2 CFR Part 200, App. II
- (G) [Applicable to all Federal-aid contracts which exceed \$150,000]
- (1) The Contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Federal Water Pollution Control Act, as amended, 33 USC 1251 et seq. The Contractor agrees to report each violation to ARRC and understands and agrees that ARRC will, in turn, report each violation as required to assure notification to the Federal grantor agency and the appropriate EPA Regional Office.
- (2) The Contractor also agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal funds.
- 6. <u>CLEAN AIR ACT</u> 42 USC 7401-7671q; 2 CFR Part 200, App. II (G) [Applicable to all Federal- aid contracts which exceed \$150,000]
- (1) The Contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act, as amended, 42 USC 7401 et seq. The Contractor agrees to report each violation to ARRC and understands and agrees that ARRC will, in turn, report each violation as required to assure notification to the Federal grantor agency and the appropriate EPA Regional Office. (2) The Contractor also agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal funds.
- 7. <u>ACCESS TO RECORDS AND REPORTS</u> 49 USC 5325(g); 2 CFR 200.333; 49 CFR Part 633 [Applicable to all Federal-aid contracts]

Access to Records - The following access to records requirements apply to this Contract:

- 1. Contractor agrees to provide ARRC, the Federal grantor agency, the Comptroller General, or any of their duly authorized representatives access to the Contractor's books, documents, papers and records which are directly pertinent to this contract for the purpose of making audit, examination, excerpts and transcriptions.
- 2. Contractor agrees to permit any of the foregoing parties to reproduce by any means whatsoever or to copy excerpts and transcriptions as reasonably needed.
- 3. Contractor agrees to comply with the record retention requirements in accordance with 2 CFR 200.333. Contractor agrees to maintain all books, records, accounts and reports required under this contract for a period of not less than three years after the date of termination or expiration of this contract, except in the event of litigation or settlement of claims arising from the performance of this contract, in which case Contractor agrees to maintain the same until ARRC, the Federal grantor agency, the Comptroller General, or any of their duly authorized representatives, have disposed of all such litigation, appeals, claims or exceptions related thereto.
- 4. Contractor agrees to permit the Federal grantor agency and its contractors access to the sites of performance under this contract as reasonably may be required.
- 5. Contractor agrees to include these requirements in each subcontract financed in whole or in part with

#### 8. CHANGES TO FEDERAL REQUIREMENTS – [Applicable to all Federal-aid contracts]

**Federal Changes -** Contractor shall at all times comply with all applicable Federal regulations, policies, procedures and directives, including without limitation those listed directly or by reference in the Agreement between ARRC and the Federal grantor agency, as they may be amended or promulgated from time to time during the term of this contract. Contractor's failure to so comply shall constitute a material breach of this contract.

#### 9. NO GOVERNMENT OBLIGATION TO THIRD PARTIES [Applicable to all Federal-aid contracts]

- (1) ARRC and Contractor acknowledge and agree that, notwithstanding any concurrence by the Federal Government in or approval of the solicitation or award of the underlying contract, absent the express written consent by the Federal Government, the Federal Government is not a party to this contract and shall not be subject to any obligations or liabilities to ARRC, Contractor, or any other party (whether or not a party to that contract) pertaining to any matter resulting from the underlying contract.
- (2) The Contractor agrees to include the above clause in each subcontract financed in whole or in part with Federal assistance. It is further agreed that the clause shall not be modified, except to identify the subcontractor who will be subject to its provisions.

# 10. PROGRAM FRAUD AND FALSE OR FRAUDULENT STATEMENTS AND RELATED ACTS – 49 USC 5323j(1); 31 USC 3801-3812; 49 CFR Part 31; 18 USC 1001 [Applicable to all Federal-aid contracts]

- (1) The Contractor acknowledges that the provisions of the Program Fraud Civil Remedies Act of 1986, as amended, 31 USC §3801 et seq. and U.S. DOT regulations, "Program Fraud Civil Remedies," 49 CFR Part 31, apply to its actions pertaining to this Project. Upon execution of the underlying contract, the Contractor certifies or affirms the truthfulness and accuracy of any statement it has made, it makes, it may make, or causes to be made, pertaining to the underlying contract or the Federally assisted project for which this contract work is being performed. In addition to other penalties that may be applicable, the Contractor further acknowledges that if it makes, or causes to be made, a false, fictitious, or fraudulent claim, statement, submission, or certification, the Federal Government reserves the right to impose the penalties of the Program Fraud Civil Remedies Act of 1986 on the Contractor to the extent the Federal Government deems appropriate.
- (2) The Contractor also acknowledges that if it makes, or causes to be made, a false, fictitious, or fraudulent claim, statement, submission, or certification to the Federal Government under a contract connected with a project that is financed in whole or in part with Federal assistance, the Government reserves the right to impose the penalties of 18 USC §1001 and 49 USC 5323(I) on the Contractor, to the extent the Federal Government deems appropriate.
- (3) The Contractor agrees to include the above two clauses in each subcontract financed in whole or in part with Federal assistance. It is further agreed that the clauses shall not be modified, except to identify the subcontractor who will be subject to the provisions.
- 11. <u>SEISMIC SAFETY REQUIREMENTS</u> 42 USC 7701 et seq. & 49 CFR Part 41; Executive Order 12699 [Applicable only to Federal-aid contracts for the construction of new buildings or additions to existing buildings]

**Seismic Safety** - The contractor agrees that any new building or addition to an existing building will be designed and constructed in accordance with the standards for Seismic Safety required in Department of Transportation Seismic Safety Regulations, 49 CFR Part 41 and will certify to compliance to the extent required by the regulation. The contractor also agrees to ensure that all work performed under this contract including work performed by a subcontractor is in compliance with the standards required by the Seismic Safety Regulations and the certification of compliance issued on the project.

12. <u>ENERGY CONSERVATION REQUIREMENTS</u> - 42 USC 6321 <u>et seq.</u> & 49 CFR Part 622, Subpart C [Applicable to all Federal-aid contracts]

**Energy Conservation** - The Contractor agrees to comply with mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act.

13. <u>CIVIL RIGHTS AND EQUAL OPPORTUNITY REQUIREMENTS</u> – 49 USC 5332; 29 USC 623, 42 USC 2000e, 42 USC 6102, 42 USC 12112, 42 USC 12132, 29 CFR Part 1630, & 41 CFR Parts 60 et seq. [Applicable to all Federal-aid contracts]

Civil Rights - The following requirements apply to the underlying contract:

- 1. <u>Nondiscrimination</u> In accordance with 49 USC 5332 and Title VI of the Civil Rights Act, as amended, 42 USC 2000e, section 303 of the Age Discrimination Act of 1975, as amended, 42 USC 6102, and section 202 of the Americans with Disabilities Act of 1990, 42 USC 12132, the Contractor agrees that it will not discriminate against any employee or applicant for employment because of race, color, creed, national origin, sex, age, or disability. In addition, the Contractor agrees to comply with applicable Federal implementing regulations and other implementing requirements the Federal grantor agency may issue.
- 2. <u>Equal Employment Opportunity</u> The following equal employment opportunity requirements apply to the underlying contract:
- Race, Color, Creed, National Origin, Sex In accordance with 49 USC 5332 and Title VI of the Civil Rights Act, as amended, and 42 USC §2000e, the Contractor agrees to comply with all applicable equal employment opportunity requirements of U.S. Department of Labor (U.S. DOL) regulations, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor," 41 CFR Parts 60 et seq., (which implement Executive Order No. 11246, "Equal Employment Opportunity," as amended by Executive Order No. 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," 42 USC 2000e note), and with any applicable Federal statutes, executive orders, regulations, and Federal policies that may in the future affect construction activities undertaken in the course of the Project. The Contractor agrees to take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, creed, national origin, sex, or age. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. In addition, the Contractor agrees to comply with any implementing requirements the Federal grantor agency may issue.
- (b) <u>Age</u> In accordance with the Age Discrimination in Employment Act, 29 USC 621-634; U.S. Equal Employment Opportunity Commission (U.S. EEOC) regulations, "Age Discrimination in Employment Act," 29 CFR Part 1625; the Age Discrimination Act of 1975, as amended, 42 USC 6101 *et seq.*; U.S. Health and Human Services regulations, "Nondiscrimination on the Basis of Age in Programs or Activities Receiving Federal Financial Assistance," 45 CFR Part 90; and 49 USC 5332, the Contractor agrees to refrain from discrimination against present and prospective employees for reason of age. In addition, the Contractor agrees to comply with any implementing requirements Federal grantor agency may issue.
- (c) <u>Disabilities</u> In accordance with section 504 of the Rehabilitation Act of 1973, as amended, 29 USC 794, the Americans with Disabilities Act of 1990, as amended, 42 USC 12101 *et seq.*, the Architectural Barriers Act of 1968, as amended, 42 USC 4151 *et seq.*, and 49 USC 5332, the Contractor agrees that it will not discriminate against individuals on the basis of disability. In addition, the Contractor agrees to comply with any implementing requirements the Federal grantor agency may issue.
- 3. The Contractor also agrees to include these requirements in each subcontract financed in whole or in part with Federal assistance, modified only if necessary to identify the affected parties.
- 14. <u>VIOLATION AND BREACH OF CONTRACT</u> 2 CFR 200.326; 2 CFR Part 200, App. II(A) [Applicable to all Federal-aid contracts in excess of \$150,000]

#### (b) Rights and Remedies of the ARRC

Except as may be otherwise provided in the contract documents, in the event that ARRC deems the contractor guilty of a default or breach of any provision under the Contract, ARRC shall have any and all rights and remedies provided by applicable law, including, but not limited to the following:

- 1. The right to take over and complete the work or any part thereof as agent for and at the expense of the Contractor, either directly or through other contractors;
- 2. The right to cancel this Contract as to any or all of the work yet to be performed;
- 3. The right to specific performance, an injunction or any other appropriate equitable remedy; and
- The right to money damages.

#### (c) Rights and Remedies of Contractor

Inasmuch as the Contractor can be adequately compensated by money damages for any breach of this Contract, which may be committed by the ARRC, the Contractor expressly agrees that no default, act or omission of the ARRC shall constitute a material breach of this Contract, entitling Contractor to cancel or rescind the Contract (unless the ARRC directs Contractor to do so) or to suspend or abandon performance. Contractor claims or disputes arising in the performance of this Contract which are not resolved by agreement of the parties shall be decided in accordance with ARRC's Procurement Rules.

**Performance During Dispute** - Unless otherwise directed by ARRC, Contractor shall continue performance under this contract while matters in dispute are being resolved.

**Notification** - 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. 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. The claim, if not resolved, shall be presented to the Project Manager, in writing, within 60 days following receipt of the Intent to Claim. Receipt of the claim will be acknowledged in writing by the Project Manager. 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.

**Presenting Claim -** A claim shall be submitted in accordance with ARRC Procurement Rule 1800.12 and shall specifically include the following:

- 1. The act, event or condition giving rise to the claim.
- 2. The contract provisions which apply to the claim and under which relief is provided.
- 3. The item or items of contract work affected and how they are affected.
- 4. The specific relief requested, including additional contract time if applicable, and the basis upon which it was calculated.

Claim Validity, Additional Information, & Project Manager's Actions - 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. 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. 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. The claim, if not resolved by agreement within 60 days of its receipt, will automatically be forwarded to the Manager of Purchasing & Materials for formal written decision.

**Decision on Claim -** The contractor will be furnished the Manager of Purchasing & Materials' decision within the next 90 days, unless additional information is requested by the ARRC. The Manager of Purchasing & Materials' decision is final and conclusive unless fraudulent as to the Claim.

**Notice of Appeal -** Within 14 days of receipt of the Manager of Purchasing & Materials' decision, the contractor may deliver a Notice of Appeal to ARRC in accordance with ARRC Procurement Rule 1800.13 and request a hearing. The Notice of Appeal shall include specific exceptions to the Manager of Purchasing & Materials' decision, including specific provisions of the contract, which the contractor intends to rely upon in the appeal. General assertions that the Manager of Purchasing & Materials' decision is contrary to law or to fact are not sufficient.

**Decision on Appeal -** The decision of the ARRC 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. The time limits given above may be extended by mutual consent. The decision of ARRC on appeal shall be final and conclusive unless the Contractor appeals to the superior court in accordance with ARRC Procurement Rule 1800.18.

- **15. NONSEGREGATED FACILITIES** [Applicable to all Federal-aid construction contracts and to all related subcontracts of \$10,000 or more]
- 1. By submission of this bid, the execution of this contract or subcontract, or the consummation of this material supply agreement or purchase order, as appropriate, the bidder, Federal-aid construction contractor,

subcontractor, material supplier, or vendor, as appropriate, certifies that the firm does not maintain or provide for its employees any segregated facilities at any of its establishments, and that the firm does not permit its employees to perform their services at any location, under its control, where segregated facilities are maintained. The firm agrees that a breach of this certification is a violation of the EEO Provisions of this contract. The firm further certifies that no employee will be denied access to adequate facilities on the basis of sex or disability.

- 2. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, timeclocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive, or are, in fact, segregated on the basis of race, color, religion, or national origin, age or disability, because of habit, local custom, or otherwise. The only exception will be for the disabled when the demands for accessibility override (e.g. disabled parking).
- 3. The contractor agrees that it has obtained or will obtain identical certification from proposed subcontractors or material suppliers prior to the award of subcontracts or consummation of material supply agreements of \$10,000 or more and that it will retain such certifications in its files.
- 16. NATIONAL HISTORIC PRESERVATION ACT REQUIREMENTS 54 USC 300101 et seq. [Applicable to all Federal-Aid contracts]

In the performance of this contract, neither Contractor nor its subcontractors shall take any action (which term includes but is not limited to the seeking of any required federal license or permit, and the extraction of material or natural resources from any source whatsoever) that may affect a district, site, building, structure or object that is included in or eligible for inclusion in the National Register of Historic Places without prior notice to ARRC and compliance with the requirements of the National Historic Preservation Act of 1966, 54 USC 300101 et seq. Contractor is advised that both historic and cultural sites may be eligible for inclusion on the National Register.

- 17. <u>FLY AMERICA REQUIREMENT</u> 49 USC 40118; 41 CFR 301-10 [Applicable to all Federal-aid contracts which may involve the international air transportation of equipment, materials, commodities, products or personnel]
- a) Definitions. As used in this clause--

"International air transportation" means transportation by air between a place in the United States and a place outside the United States or between two places both of which are outside the United States

"U.S.-flag air carrier" means an air carrier holding a certificate under 49 U.S.C. Chapter 411.

- b) When Federal funds are used to fund travel, Section 5 of the International Air Transportation Fair Competitive Practices Act of 1974 (49 USC 40118) (Fly America Act) requires contractors, recipients, and others use U.S.-flag air carriers for U.S. Government-financed international air transportation of personnel (and their personal effects) or property, to the extent that service by those carriers is available. It requires the Comptroller General of the United States, in the absence of satisfactory proof of the necessity for foreign-flag air transportation, to disallow expenditures from funds, appropriated or otherwise established for the account of the United States, for international air transportation secured aboard a foreign-flag air carrier if a U.S.-flag air carrier is available to provide such services.
- c) If available, the Contractor, in performing work under this contract, shall use U.S.-flag carriers for international air transportation of personnel (and their personal effects) or property.
- d) In the event that the Contractor selects a carrier other than a U.S.-flag air carrier for international air transportation, the Contractor shall include a statement on vouchers involving such transportation essentially as follows:

#### (d) Statement of Unavailability of U.S.-Flag Air Carriers

International	air t	transportatio	า of	persons	(and	their	personal	effects)	or	property	y by	U.Sflag	g air	carrie	r wa	s no
available or i	t was	s necessary t	o us	se foreign	-flag	air caı	rrier servi	ce for the	e fol	llowing r	easo	ns. See	FAR	§ 47.4	03. [	State
reasons]:																

The Contractor agrees to include the requirements of	f this section in all subcontracts that may involve international air
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<sup>&</sup>quot;United States" means the 50 States, the District of Columbia, and outlying areas.

transportation.

18. <u>RECYCLED PRODUCTS</u> - 42 USC 6962; 40 CFR PART 247; 2 CFR 200.322 [Applicable to all Federal-aid contracts for items designated by the EPA, for the purchase of \$10,000 or more of one of these items during the fiscal year]

The Contractor agrees to provide a preference for those products and services that conserve natural resources, protect the environment, and are energy efficient by complying with and facilitating compliance with Section 6002 of the Resource Conservation and Recovery Act, as amended, 42 USC 6962, and U.S. Environmental Protection Agency (U.S. EPA), "Comprehensive Procurement Guideline for Products Containing Recovered Materials," 40 CFR Part 247. The Contractor agrees to include these requirements in each subcontract financed in whole or in part with Federal funds.

19. <u>INCORPORATION OF FEDERAL TRANSIT ADMINISTRATION TERMS</u> - FTA Circular 4220.1F [Applicable to all FTA funded contracts]

The provisions herein include, in part, certain Standard Terms and Conditions required by USDOT, whether or not expressly set forth in the contract provisions. All contractual provisions required by USDOT, as set forth in FTA Circular 4220.1F are incorporated by reference. Anything to the contrary herein notwithstanding, all FTA mandated terms shall be deemed to control in the event of a conflict with other provisions contained in this agreement. The contractor shall not perform any act, fail to perform any act, or refuse to comply with any ARRC requests which would cause ARRC to be in violation of the FTA terms and conditions.

- 20. <u>DISADVANTAGED BUSINESS ENTERPRISE (DBE) PROGRAM -</u> 49 CFR Part 26. [Applicable to all U.S. Department of Transportation-funded contracts, including those funded by FTA, FRA and FHWA]
- 1. Assurance The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of U.S. Department of Transportation- assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the ARRC deems appropriate, which may include, but is not limited to:
- (1) Withholding monthly progress payments;
- (2) Assessing sanctions;
- (3) Liquidated damages; and/or
- (4) Disqualifying the contractor from future bidding as non-responsible. 49 CFR 26.13(b).
- 2. Contract Goal ARRC runs a completely race-neutral DBE program. Accordingly, this contract has no specific contract goal for the participation of Disadvantaged Business Enterprises (DBEs). ARRC does have an overall annual goal that it strives to meet, however. The ARRC therefore strongly encourages the contractor to use the services of small businesses, including DBEs, as subcontractors whenever possible. The ARRC requests that the contractor consider such measures as: (1) subcontracting to small businesses, including DBEs, portions of the work the contractor might otherwise do with its own forces; (2) reducing or waiving subcontractor bonding requirements for small businesses, including DBEs; (3) reviewing the list of businesses certified in the Small Business Administration's 8(a) Business Development Program for potential subcontractors [contact the SBA at (907) 271-4022]; and (4) reviewing the list of businesses certified as DBEs by the Alaska Unified Certification Program for potential subcontractors [http://www.dot.state.ak.us/cvlrts/directory.shtml].
- 3. **Prompt Payment -** The prime contractor agrees to pay each subcontractor under this prime contract for satisfactory performance of its contract no later than thirty (30) days from the receipt of each payment the prime contractor receives from the ARRC. The prime contractor agrees further to return retainage payments to each subcontractor within thirty (30) days after the subcontractor's work is satisfactorily completed, even if the prime contractor's work has not been completed. Any retainage not returned to a subcontractor will be reported to the ARRC by the prime contractor. This clause applies to both DBE and non-DBE subcontractors.

## 21. <u>FHWA BUY AMERICA REQUIREMENTS</u> - 23 CFR 635.410 [Applicable only to FHWA funded construction contracts in excess of \$150,000]

Unless a waiver has been granted by the FHWA, all steel and iron materials which are incorporated into the work, and the action of applying a coating to a covered material (i.e., steel and iron), shall be manufactured in the United States except that minor amounts of steel and iron materials of foreign manufacture may be used, provided the aggregate cost of such materials does not exceed one tenth of one percent (0.1 percent) of the total contract amount, or \$2500, whichever is greater. Coating includes epoxy coating, galvanizing, painting, and any other coating that protects or enhances the value of a material subject to the requirements of this section. For the purposes of this section, the cost is the value of the products as they are delivered to the project. When steel and iron materials manufactured in the United States are shipped to a foreign country where non-steel or iron products are installed on or in them (i.e., electronic components in a steel cabinet), the steel and iron is considered to meet the requirements of this section. A certification of materials origin, attesting to compliance with this provision, shall be furnished to the Engineer prior to incorporating any steel or iron products into the project. Bidders may submit an alternate bid for the project based on the use of foreign iron or steel materials. In this event, the contract will be awarded to the bidder who submits the lowest total responsive bid based on furnishing domestic iron and steel materials by more than 25 percent.

#### (e) Certificate of Compliance with 23 CFR 635.410

Date:		
Signature:		
Company Name:		
Title:		

The bidder or offeror hereby certifies that it will comply with the requirements of 23 CFR 635.410.

22. <u>FTA BUY AMERICA REQUIREMENTS</u> - 49 USC 5323(j); 49 CFR Part 661 [Applicable only to FTA funded projects that involve the purchase of more than \$150,000 of iron, steel, manufactured goods or rolling stock]
<b>Buy America -</b> The contractor agrees to comply with 49 USC 5323(j) and 49 CFR Part 661, which provide that Federal funds may not be obligated unless all steel, iron, and manufactured products used in FTA-funded projects are produced in the United States, unless a waiver has been granted by FTA or the product is subject to a general waiver. General waivers are listed in 49 CFR 661.7. Separate requirements for rolling stock are set out at 49 USC 5323(j)(2)(C) and 49 CFR 661.11.
A bidder or offeror must submit to the ARRC the appropriate Buy America certification (below) with all bids or offers on FTA-funded contracts, except those subject to a general waiver. Bids or offers that are not accompanied by a completed Buy America certification must be rejected as nonresponsive.
(f) Certification requirement for procurement of steel, iron, or manufactured products:
Certificate of Compliance with 49 USC 5323(j)(1) The bidder or offeror hereby certifies that it will meet the requirements of 49 USC 5323(j)(1) and the applicable regulations in 49 CFR Part 661.6.
Date: Signature: Company Name: Title:
(g) Certificate of Non-Compliance with 49 USC 5323(j)(1)  The bidder or offeror hereby certifies that it cannot comply with the requirements of 49 USC 5323(j) and 49 CFR 661.6, but it may qualify for an exception pursuant to 49 USC 5323(j)(2)(A), 5323(j)(2), as amended, and the applicable regulations in 49 CFR 661.7.
Date:
(h) Certification requirement for procurement of rolling stock and associated equipment:
Certificate of Compliance with 49 USC 5323(j)  The bidder or offeror hereby certifies that it will comply with the requirements of 49 USC 5323(j) and the regulations at 49 CFR 661.11.
Date:Signature:Company Name:Title:
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#### (i) Certificate of Non-Compliance with 49 USC 5323(j)

The bidder or offeror hereby certifies that it cannot comply with the requirements of 49 USC 5323(j) and 49 CFR 661.11, but may qualify for an exception pursuant to 49 USC 5323(j)(2)(C), and the applicable regulations at 49 CFR 661.7.

Date:	
Signature:	
Company Name:	
Title:	

- 23. FRA BUY AMERICAN REQUIREMENTS-SUPPLIES 41 USC 8301-8305; 48 CFR Part 25 [If required under the terms of the grant agreement, applicable only to FRA funded contracts for the purchase of goods, supplies or equipment in excess of \$10,000]
- (a) The FRA requires its grantees to comply with The Buy American Act (41 U.S.C. 8301 *et seq.*) which provides that preference be given to domestic end products.

Commercially available off-the-shelf (COTS) item, as used in this clause, means

- (1) any item of supply (including construction material) that is (i) a commercial item, as defined in paragraph (1) of the definition at 48 CFR 2.101; (ii) sold in substantial quantities in the commercial marketplace; and (iii) offered under this contract in the same form in which it is sold in the commercial marketplace; and
- (2) does not include bulk cargo, as defined in 46 USC 40102(4), such as agricultural products and petroleum products.

Components, as used in this clause, means those articles, materials, and supplies incorporated directly into the end products.

Cost of components, as used in this clause, means

- (1) For components purchased by the Contractor, the acquisition cost, including transportation costs to the place of incorporation into the end product (whether or not such costs are paid to a domestic firm), and any applicable duty (whether or not a duty-free entry certificate is issued); or
- (2) For components manufactured by the Contractor, all costs associated with the manufacture of the component, including transportation costs as described in paragraph (1) of this definition, plus allocable overhead costs, but excluding profit. Cost of components does not include any costs associated with the manufacture of the end product.

Domestic end product, as used in this clause, means

- (1) an unmanufactured end product mined or produced in the United States, or
- (2) an end product manufactured in the United States, if
- (i) the cost of its components mined, produced, or manufactured in the United States exceeds 50 percent of the cost of all its components. Components of foreign origin of the same class or kind as the products referred to in subparagraphs (b) (2) or (3) of this clause shall be treated as domestic. Scrap generated, collected, and prepared for processing in the United States is considered domestic; or
- (ii) the end product is a COTS item.

End products, as used in this clause, means those articles, materials, and supplies to be acquired for public use under this contract.

Foreign end product, as used in this clause, means an end product other than a domestic end product.

*United States*, as used in this clause, means the 50 States, the District of Columbia, and outlying areas (as defined at 48 CFR 2.101).

- (b) The Contractor shall deliver only domestic end products, except those-
  - (1) For use outside the United States;
  - (2) That government agencies have determined are not mined, produced, or manufactured in the United States in sufficient and reasonably available commercial quantities of a satisfactory quality. A current list of such items is contained in 48 CFR 25.104;
  - (3) For which the agency determines that domestic preference would be inconsistent with the public interest; or
    - (4) For which the agency determines the cost to be unreasonable under 48 CFR 25.105. The offered

price of a domestic end product shall be determined to be unreasonable when the lowest acceptable domestic offer exceeds the lowest acceptable foreign offer, inclusive of duty, by more than 6 percent, if the domestic offer is from a large business or more than 12 percent, if the domestic offer is from a small business concern

In accordance with 41 USC 1907, the component test of the Buy American statute is waived for an end product that is a COTS item (See 48 CFR 12.505(a)(1).

A bidder must submit to ARRC the Buy American certification (below) with its bid response for FRA funded supply contracts. The Contractor shall deliver only domestic end products except to the extent that it specifies delivery of foreign end products in its provision of the Buy American Certificate. Bids that are not accompanied by a completed Buy American certification may be rejected as nonresponsive.

#### (j) Buy American Certificate Certificate of Compliance with 41 USC 8301-8305 - Supplies

The bidder or offeror hereby certifies that the products it proposes to supply hereunder comply with the (a) requirements of 49 USC 8301-8305 and the applicable regulations in 48 CFR Part 25. The bidder or offeror certifies that each end product, except those listed in paragraph (b) of this certificate, is a domestic end product and that for other than COTS items, the bidder or offeror has considered components of unknown origin to have been mined, produced, or manufactured outside the United States. The bidder or offeror shall list as foreign end products those end products manufactured in the United States that do not qualify as domestic end products, i.e., an end product that is not a COTS items and does not meet the component test in paragraph (2) of the definition of "domestic end product."

(b)	Foreign End Products:		
Line Iter	m No.	Country of Origin	
(List as	necessary)		
Date:			
Signatur	re:		
Compar	ny Name:		
Title:			

- 24. FRA BUY AMERICAN REQUIREMENT-CONSTRUCTION 41 USC 8301-8305; 48 CFR Part 25 [Applicable only to FRA funded construction contracts in excess of \$10,000]
- (a) The FRA requires its grantees to comply with The Buy American Act (41 U.S.C. 8301 *et seq.*) which provides that preference be given to domestic construction materials. As used in this clause-

Components means those articles, materials, and supplies incorporated directly into construction materials.

Construction material means an article, material, or supply brought to the construction site for incorporation into the building or work. Construction material also includes an item brought to the site pre- assembled from articles, materials, or supplies. However, emergency life safety systems, such as emergency lighting, fire alarm, and audio evacuation systems, which are discrete systems incorporated into a public building or work and which are produced as a complete system, shall be evaluated as a single and distinct construction material regardless of when or how the individual parts or components of such systems are delivered to the construction site.

Domestic construction material means (1) an unmanufactured construction material mined or produced in the United States, or (2) a construction material manufactured in the U.S., if the cost of its components mined, produced, or manufactured in the United States exceeds 50 percent of cost of all its components. Materials of foreign origin of the same class or kind as the materials listed in 48 CFR 25.108 shall be treated as domestic.

- (b)(1) The Buy American Act (41 USC 8301-8305) requires that only domestic construction material be used in performing this contract, except as provided in paragraphs (b)(2) and (b)(3) of this clause.
- (2) The requirement in paragraph (b)(1) of this clause does not apply to the excepted construction materials or components listed by the Government as follows: NONE
- (3) Other foreign construction material may be used on this project if ARRC determines that-
- (i) The cost would be unreasonable (the cost of a particular domestic construction material shall be determined to be unreasonable when the cost of such material exceeds the cost of foreign material by more than 6 percent, unless the agency head determines a higher percentage to be appropriate);
- (ii) The application of the restriction of the Buy American Act to a particular construction material would be impracticable or inconsistent with the public interest; or
- (iii) The construction material is not mined, produced, or manufactured in the United States in sufficient and reasonably available commercial quantities of a satisfactory quality.
- (4) The Contractor agrees that only domestic construction materials will be used by the Contractor, subcontractors, material men, and suppliers in the performance of this contract, except for foreign construction materials, if any, listed in paragraph (b)(2) or allowed under paragraph (b)(3) of this clause.
- (c) Request for determination. (1) Contractors requesting to use foreign construction material under paragraph (b)(3) of this clause shall provide adequate information for ARRC evaluation of the request for a determination regarding the inapplicability of the Buy American Act in time to allow determination before submission of bids or offers. Each submission shall include a description of the foreign and domestic construction materials, including unit of measure, quantity, price, time of delivery or availability, location of the construction project, name and address of the proposed contractor, and a detailed justification of the reason for use of foreign materials cited in accordance with paragraph (b)(3) of this clause. A submission based on unreasonable cost shall include a reasonable survey of the market and a completed price comparison table in the format in paragraph (d) of this clause. The price of construction material shall include all delivery costs to the construction site and any applicable duty (whether or not a duty-free certificate may be issued).
- (2) If ARRC determines after contract award that an exception to the Buy American Act applies, the contract shall be modified to allow use of the foreign construction material, and adequate consideration shall be negotiated. However, when the basis for the exception is the unreasonable price of a domestic

construction material, adequate consideration shall not be less than the differential established in paragraph (b)(3)(i) of this clause.

- (3) If ARRC does not determine that an exception to the Buy American Act applies, the use of that particular foreign construction material will be a failure to comply with the Act.
- (d) For evaluation of requests under paragraph (c) of this clause based on unreasonable cost, the following information and any applicable supporting data based on the survey of suppliers shall be included in the request:

#### FOREIGN AND DOMESTIC CONSTRUCTION MATERIALS PRICE COMPARISON

Construction material description	Unit of Measure	Quantity	Price (Dollars) <sup>1/</sup>
Item 1: Foreign construction material Domestic construction material			
Item 2: Foreign construction material Domestic construction material			

List name, address, telephone number, and contact for suppliers surveyed. Attach copy of response; if oral, attach summary. Include other applicable supporting information.

<sup>1</sup>/Include all delivery costs to the construction site and any applicable duty (whether or not a duty- free entry certificate is issued).

A bidder must submit to ARRC the Buy American certification (below) with its bid response for FRA funded construction. Bids that are not accompanied by a completed Buy American certification may be rejected as nonresponsive.

#### (k) Certificate of Compliance with 41 USC 8301-8305 - Construction

The bidder or offeror hereby certifies that the construction materials it proposes to provide hereunder comply with the requirements of 49 USC 8301-8305 and the applicable regulations in 48 CFR Part 25.

Date:	
Signature:	
Company Name:	
Title:	

25.	<b>CERTIFICATION</b>	REGARDING USE	OF CONTRAC	T FUNDS FOR	R LOBBYING -	31 USC 13	52; 2 CFR
•		49 CFR Part 20 [A	Applicable to all I	Federal-aid cor	ntracts and to a	ll related su	ubcontracts
which exceed	d \$100,000j						

A bidder must submit to ARRC the below certification with its bid response for any Federally funded contract that exceeds \$100,000. Bids that are not accompanied by a completed certification may be rejected as nonresponsive.

- 1. The undersigned Contractor certifies, to the best of his or her knowledge and belief, that:
- a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
- 2. The undersigned also agrees that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.
- 3. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 USC 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Contractor,	<u>—</u> addition, th	ne Co	ontractor	truthfulness rstands and ag	
Signature of Contractor's Authorized Official:				 	
Name and Title of Contractor's Authorized Official:				 	
Date:					

26. <u>FTA PRE-AWARD AND POST DELIVERY AUDITS REQUIREMENTS</u> - 49 USC 5323; 49 CFR Part 663 [Applicable only to FTA funded contracts for the purchase of rolling stock in excess of \$150,000]

**Pre-Award and Post-Delivery Audit Requirements -** The Contractor agrees to comply with 49 USC 5323(I) and FTA's implementing regulation at 49 CFR Part 663 and to submit the following certifications:

- (1) Buy America Requirements: The Contractor shall complete and submit a declaration certifying either compliance or noncompliance with Buy America. If the Bidder/Offeror certifies compliance with Buy America, it shall submit documentation which lists 1) component and subcomponent parts of the rolling stock to be purchased identified by manufacturer of the parts, their country of origin and costs; and 2) the location of the final assembly point for the rolling stock, including a description of the activities that will take place at the final assembly point and the cost of final assembly.
- (2) Solicitation Specification Requirements: The Contractor shall submit evidence that it will be capable of meeting the bid specifications.
- (3) Federal Motor Vehicle Safety Standards (FMVSS): The Contractor shall submit 1) manufacturer's FMVSS self-certification sticker information that the vehicle complies with relevant FMVSS or 2) manufacturer's certified statement that the contracted buses will not be subject to FMVSS regulations.
- 27. <u>CERTIFICATION REGARDING COMPLIANCE WITH 49 CFR 26.49</u> ESTABLISHMENT OF DBE GOAL [Applicable to all FTA funded contracts for Transit Vehicles]

The bidder or offeror hereby certifies that it has established a DBE goal and submitted it to the FTA for approval in accordance with the provisions of 49 CFR 26.49.

Date:		
Signature:		_
Company Name:		
Title:		

28. <u>SAFE OPERATION OF MOTOR VEHICLES</u> - 23 USC Part 402; Executive Order No. 13043; Executive Order No. 13513; U.S. DOT Order No. 3902.10 [Applicable to all federally funded third party contracts]

**Seat Belt Use** - The Contractor is encouraged to adopt and promote on-the-job seat belt use policies and programs for its employees and other personnel that operate company-owned vehicles, company-rented vehicles, or personally operated vehicles. The terms "company-owned" and "company-leased" refer to vehicles owned or leased either by the Contractor or ARRC.

**Distracted Driving** - The Contractor agrees to adopt and enforce workplace safety policies to decrease crashes caused by distracted drivers, including policies to ban text messaging while using an electronic device supplied by an employer, and driving a vehicle the driver owns or rents, a vehicle Contactor owns, leases, or rents, or a privately-owned vehicle when on official business in connection with the work performed under this agreement.

29. <u>PATENT RIGHTS</u> – 2 CFR Part 200, App. II(F); 37 CFR Part 401 [Applicable all federally funded contracts with a small business firm or nonprofit organization for the performance of experimental, developmental or research work]

This Project is funded through a Federal award for experimental, developmental, or research work purposes. As such, certain Patent Rights and Data Rights apply to all subject data first produced in the performance of this contract. The Contractor shall grant the ARRC intellectual property access and licenses deemed necessary for the work performed under this contract and in accordance with the requirements of 37 CFR Part 401, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the federal grantor agency. The terms of an intellectual property agreement and software license rights will be finalized prior to execution of this contract and shall, at a minimum, include the following restrictions: Except for its own internal use, the Contractor may not publish or reproduce subject data in whole or in part, or in any manner or form, nor may the Contractor authorize others to do so, without the written consent of ARRC and the federal grantor agency, until such time as they may have either released or approved the release of such data to the public.

This restriction on publication, however, does not apply to any contract with an academic institution. For purposes of this agreement, the term "subject data" means recorded information whether or not copyrighted, and that is delivered or specified to be delivered as required by the contract. Examples of "subject data" include, but are not limited to computer software, standards, specifications, engineering drawings and associated lists, process sheets, manuals, technical reports, catalog item identifications, and related information, but do not include financial reports, cost analyses, or other similar information used for performance or administration of the Contract.

- 1. The Federal Government reserves a royalty-free, non-exclusive and irrevocable license to reproduce, publish, or otherwise use, and to authorize others to use for "Federal Government Purposes," any subject data or copyright described below. For "Federal Government Purposes," means use only for the direct purposes of the Federal Government. Without the copyright owner's consent, the Federal Government may not extend its Federal license to any other party.
  - (m) Any subject data developed under the contract, whether or not a copyright has been obtained; and
- (n) Any rights of copyright purchased by the Contractor using Federal assistance in whole or in part by the federal grantor agency.
- 2. Unless the federal grantor agency determines otherwise, the Contractor performing experimental, developmental, or research work required as part of this contract agrees to permit the federal grantor agency to make available to the public, either its license in the copyright to any subject data developed in the course of the contract, or a copy of the subject data first produced under the contract for which a copyright has not been obtained. If the experimental, developmental, or research work, which is the subject of this contract, is not completed for any reason whatsoever, all data developed under the contract shall become subject data as defined herein and shall be delivered as the Federal Government may direct.
- 3. Unless prohibited by state law, upon request by the Federal Government, the Contractor agrees to indemnify, save, and hold harmless the Federal Government, its officers, agents, and employees acting within the scope of their official duties against any liability, including costs and expenses, resulting from any willful or intentional violation by the Contractor of proprietary rights, copyrights, or right of privacy, arising out of the publication, translation, reproduction, delivery, use, or disposition of any data furnished under that contract. The Contractor shall be required to indemnify the Federal Government for any such liability arising out of the wrongful act of any employee, official, or agents of the Federal Government.
- 4. Nothing contained in this clause on rights in data shall imply a license to the Federal Government under any patent or be construed as affecting the scope of any license or other right otherwise granted to the Federal Government under any patent.
- 5. Data developed by the Contractor and financed entirely without using Federal assistance provided by the Federal Government that has been incorporated into work required by the underlying contract is exempt from the requirements herein, provided that the Contractor identifies those data in writing at the time of delivery of the contract work.
- 6. The Contractor agrees to include these requirements in each subcontract for experimental, developmental, or research work financed in whole or in part with Federal assistance.
- 30. <u>TERMINATION</u> 2 CFR 200.339; 2 CFR Part 200 App. II(B) [Applicable to all federally funded contracts in excess of \$10,000]

Except as may be otherwise provided in the contract documents, the following termination provisions apply to this contract:

- 1. ARRC may, for its sole convenience, terminate this contract in whole or in part, at any time by giving written notice of its intention to do so. In the event of such termination, Contractor shall be entitled to receive payment in accordance with the payment provisions of this contract for charges incurred prior to the effective date of termination. Contractor shall not be paid for any work done after receipt of a notice of cancellation or for any costs incurred by Contractor's suppliers or subcontractors which Contractor could reasonably have avoided. In no event shall ARRC be liable for unabsorbed overhead or anticipatory profit on unperformed work.
- 2. In addition to ARRC's right to terminate this contract for its convenience, ARRC may, by written notice of default to Contractor, terminate the contract in whole or in part in the following circumstances:
- (a) The Contractor refuses or fails to perform its obligations under the contract, or fails to make progress so as to

significantly endanger timely completion or performance of the contract in accordance with its terms, and Contractor does not cure such default within a period of ten (10) days after receipt of written notice of default from ARRC or within such additional cure period as ARRC may authorize; or

- (b) Reasonable grounds for insecurity arise with respect to Contractor's expected performance and Contractor fails to furnish adequate assurance of due performance (including assurance of performance in accordance with the time requirements of the contract) within ten (10) days after receipt of a written request by ARRC for adequate assurance; or
- (c) Contractor becomes insolvent or makes an assignment for the benefit of creditors or commits an act of bankruptcy or files or has filed against it a petition in bankruptcy or reorganization proceedings.
- 3. Upon receipt of a notice of cancellation or termination, Contractor shall immediately discontinue all performance and it shall immediately cause any of its suppliers or subcontractors to cease such work unless the notice directs otherwise and deliver immediately to ARRC all products, reports, plans, drawings, specifications, data, summaries or other materials and information, whether completed or in process, accumulated by Contractor in performance of the contract. The rights and remedies of ARRC provided in this section shall not be exclusive and are in addition to any other rights and remedies provided by law.

# **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, <a href="https://www.alaskarailroad.com">www.alaskarailroad.com</a>, 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 guestions 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 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 <a href="https://www.alaskarailroad.com">www.alaskarailroad.com</a>.
- 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 it 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, 08.49, 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 it's 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 is it 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, expediters, 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 or 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 the 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

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 <a href="http://dot.alaska.gov/stwddes/dcsspecs/assets/pdf/hwyspecs/sshc2020.pdf">http://dot.alaska.gov/stwddes/dcsspecs/assets/pdf/hwyspecs/sshc2020.pdf</a>.

### 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. The Engineer shall be the final judge as to the accuracy of any measurements or quantities and the reasonableness of any approximations in lieu of accurate determinations and their decision shall be binding upon both parties.

Monthly progress payments to the Contractor based on the estimate of the value of work performed and materials on hand under subsection 109-1.07. 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.

For lump sum pay items that are not broken down for payment in accordance with a subsection, the Contractor is to provide a lump sum breakdown for review and approval by the Owner. Prior to the Contractor's first application for payment that includes progress under such an item, the Contractor is to submit a lump sum breakdown for approval based upon the phases and/or segments of work outlined therein.

For lump sum pay items that are not broken down for payment in accordance with a subsection, the Contractor is to provide a lump sum breakdown for review and approval by the Owner. Prior to the Contractor's first application for payment that includes progress under such an item, the Contractor is to submit a lump sum breakdown for approval based upon the phases and/or segments of work outlined therein.

#### SC-02 – Escrow of Bid Documentation

Furnish a legible copy of your bid documentation and an affidavit, as instructed in writing by the Contracting Officer. Bid documentation consists of written documentation of all quantity takeoffs, construction schedules on which the bid is based, cost estimates, rates of production and progress, assumptions, calculations, quotes from subcontractors and suppliers, and other information used to prepare your bid for this project.

Obtain and furnish the same level of bid documentation, for each subcontractor, supplier or fabricator with a subcontract or agreement exceeding \$200,000, regardless of tier. Seal each entity's documentation in separate envelopes, labeled with the entity's name and address, submission date, and project name and number. Include a cover letter or quote signed by a responsible party.

Meet the following requirements:

- 1. <u>Submitting Bid Documentation</u>. Place bid documentation in a sealed container clearly marked "Bid Documentation" and labeled with the bidder's name and address, submission date, and project name and number. Deliver the sealed container to the Owner-designated document Depository for safekeeping.
- 2. Affidavit. Submit directly to the Contracting Officer a signed and certified affidavit attesting that:
  - a. The affiant has examined the bid documentation and that it includes all documents used to prepare the bid
  - b. The sealed container contains all bid documentation submitted
  - c. The escrow materials were relied on to prepare the bid

- d. Should a dispute arise, the Contractor's rights to use bid preparation documentation other than those in escrow are waived.
- 3. Access and Use of Escrow Documents. The bid documentation will remain in escrow, without access by either party, except as otherwise provided herein. In the event the Contractor (1) provides notice of intent to claim, (2) a claim, (3) a contract change order, or (4) initiates contract related litigation, the Owner may obtain copies of the bid documentation as provided herein.

Both parties will submit to the Depository and copy to each other a list of personnel that are authorized to access the escrow documents. Use forms provided by the Depository.

Upon request, the Depository will set the time and place for access to escrow documents, will monitor the escrow documents review, and will arrange for a method of copying escrow documents. Access to escrow documents shall require at least five days advance written notice so that the other party has the opportunity to witness the escrow review, examination and use. There is no requirement that both parties witness the escrow document review, but if one party is absent then the review must occur in the presence of a neutral third-party observer to be designated by the Depository.

Notwithstanding paragraph five below, the Owner will be allowed: to make copies of any and all escrow documentation (whether hard-copy, electronic, or otherwise); to use and review any copies made whether in the presence of the Contractor, or not; and to share copies with staff and consultants directly involved in the subject dispute.

Distribution is not authorized except as related to resolution of a dispute. The Owner will be allowed to incorporate pertinent copies as supporting documentation in all significant contract change orders, contractual disputes, and the settlement of disputed claims.

The Owner is not liable for any contractor costs associated with escrow review and use.

- 1. <u>Failure to Provide Bid Documentation</u>. Refusal or failure to provide your bid documentation or affidavit renders your bid nonresponsive. Failure or refusal to provide Subcontractor bid documentation, will result in subcontract disapproval.
- 2. <u>Confidentiality of Bid Documentation</u>. Materials held in escrow are your property. Except as otherwise provided herein, the escrow materials cannot be released without your approval.
- 3. <u>Cost and Escrow Instruction</u>. The Owner pays to store all escrowed materials and instructs the depository regarding escrow.
- 4. Payment. Include within the overall Contract bid price all costs to comply with this subsection.
- 5. <u>Return of Escrow Documentation</u>. The original escrow documents will be returned to you once litigation is concluded, outstanding claims are resolved, you have completed the Contract, and the Owner receives an executed Contractor's Release Form with no exceptions listed.

## SC-03 – Staging and Access

The Contractor may make use of the Railroad Right-Of-Way (ROW) in upland areas with written permission of the ARRC. Materials and equipment must be stored in a neat, workmanlike manner. All materials, equipment, and debris must be removed at the completion of the project. Disturbed areas must be restored to their preconstruction conditions. Staging areas must not interfere with ARRC's ability to utilize or maintain its facilities or support their clients. If the Contractor desires to use adjacent property, they shall make all necessary arrangements for its use with the property owner. If electricity or other utilities are required by the Contractor, they shall be provided by the Contractor at their sole cost. All temporary lines shall be furnished, installed, connected and maintained by the Contractor in a workmanlike manner satisfactory to the Engineer and shall be removed by the Contractor in a like manner upon completion of the project.

The Contractor shall take care to prevent damage to the Railway's facilities, adjacent properties and existing utilities in carrying out this work. Any damage caused by the Contractor in the performance of their work shall be repaired to the owner's satisfaction at the Contractor's expense.

The Contractor shall provide and maintain in a neat, sanitary condition, such accommodations for the exclusive use of his employees as may be necessary to comply with all local, state and federal regulations. Dug pit privies will not be acceptable. Upon completion of the project, all property used by the Contractor shall be left in a condition satisfactory to the Supervisor and the adjacent property owners. The Contractor shall provide the Supervisor with a written release statement from each adjacent property owner affected by the work. Final payment will not be made to the Contractor unless these release statements have been provided.

#### SC-04 – Dewatering

In the event the Contractor needs to perform dewatering activities while performing contract work the Contractor shall comply with CGP Part 4.4, and the DEC General Permit for Excavation Dewatering (AKG0020000), requirements for dewatering for trenches and excavations. All dewatering activities, if required, are subsidiary to this Contract.

# SC-05 - Rail Operations Coordination

<u>General Background</u>: The Contractor must coordinate with Project Manager, or its designated representative; for daily operations, access to the physical project site, and for the delineation of the Contractor equipment staging area(s). Coordination with the ARRC and its on-site representative will be paramount to the successful execution of the Work as the coordination of access to the site and scheduling track outages is critical to the completion of the Work.

The proposed project will be constructed during active rail operations. This site is located in part of a critical freight transportation system. Railcars, containers, and bulk cargo are transferred from barge to rail at the Seward Terminal for transportation to the Anchorage Terminal, interior Alaska and to support customer needs throughout the state. The freight activities between rail and barge are closely coordinated and interdependent. The proposed improvements must be planned, scheduled and undertaken to avoid disruption to the rail freight operation.

The proposed project will be constructed during peak Passenger Train Season which typically runs **from early May** to **late September**. This limits track closures around the freight and train operations described herein.

Freight operational schedules are adjusted and influenced by weather, tides, freight make-up, loading and off-loading quantities, crew availability and equipment reliability. Passenger schedules are maintained in accordance with the published schedules <a href="https://www.alaskarailroad.com/ride-a-train/schedules">https://www.alaskarailroad.com/ride-a-train/schedules</a>.

Other, infrequent barge freight operations also use the Seward Terminal. These activities may involve railroad train support and special freight moves. Typical freight train traffic through the project limits may consist of up-to three (3) trains per month. Typically, each train will travel from Anchorage to Seward with a return trip another day. Run times for freight trains can be at any time during the day, but are usually during the daytime hours.

General traffic patterns, including anticipated daily work windows, will be discussed at the pre-bid site meeting. The Contractor is expected to ask sufficient questions to gain an understanding of rail operations through the structure prior to planning and submitting a bid for the work.

## ARRC Flagging: Situational Requirements:

Railroad flag protection (flagging) is required whenever people, vehicles, or equipment are within 20' of the tracks.

Flagging is also required if equipment can reach within 20' of the tracks. Some examples of other situations which may require flagging:

- Surveying within 20' of the tracks
- Boring under the tracks
- Working over the tracks (on a bridge or with overhead utility lines)
- Working within 20' of any railroad facilities, including signal facilities.
- Movement of off-road or oversized/overweight loads over at-grade crossings
- Operating tracked equipment over at-grade crossings

- Using a sweeper truck on at-grade crossings
- Crossing tracks on foot with limited sight distance

Railroad flagging personnel are provided to protect ARRC personnel, equipment, passengers, and facilities from the work being performed, and to provide protection to contractors working within ARRC ROW from ARRC operations. They are <u>not</u> inspectors of the work being performed. ARRC reserves the right to require construction observation for work within ARRC ROW. Flaggers will provide daily job briefings and ensure at each briefing that all contractor activities planned for that day will comply with the most current version of the Alaska Railroad Safety Policies. All personnel entering the project limits are required to have a job briefing with the Flagger prior to work.

A single flagger may cover a limited length of track, depending on track curves, sight lines, radio contact, and other factors. The ARRC will determine in its discretion flagging limits per location and how many flaggers are necessary to cover the required work area.

No single flagger may work more than 12 hours in a given day, 60 hours in a given week, or 6 days in a row.

Flagging hours will typically exceed the Contractor's onsite work hours. Additional time is required for flaggers to travel to and from the work site, to obtain track authority, and to set up and tear down equipment, each of which are included in the time allotted for flag protection. On average, a flagger will work 2-3 hours per day in addition to the onsite flagging time.

Flagging required for delays in the work and/or hours beyond 12 hours in a given day, 60 hours in a given week. This includes additional flagger(s) required to be called out so as not to exceed the times stated above.

<u>Scheduling</u>: Flagging requests must be submitted 10 business days prior to the start of work. ARRC will make a reasonable effort to provide flagging to accommodate contractors' schedules. However, staffing is limited during certain times of the year and personnel may not be available at specific times. Flagging request submissions for work durations longer than two weeks will be required 4 weeks prior to the start of work.

To avoid flagging charges, cancellations of flagging requests must be made at least 72 hours prior to the scheduled start of flagging operations. Any cancellations received with less than 72 hours' notice are subject to payment of the minimum daily rate, as determined by ARRC, for the number of flaggers assigned to the project.

<u>Construction Activities</u>: General construction activities must be planned and coordinated in such a manner that they do not adversely affect rail operations. Work within nine (9) feet of the track centerline, above the elevation of the rail, or work that may inadvertently damage the serviceability of the track must always be coordinated with the Owner or its designated Representative. The time available to work within this area and/or make the track impassible will vary, dependent upon the freight and passenger operations described herein.

<u>Tracks out of Service (Track Outages)</u>: The work shall be planned so as to minimize track service outages. The Contractor shall submit a closure plan and request for proposed track outage date(s). The plan will describe the work to be accomplished, the equipment, manpower and other resources required, and the work schedule, specifying dates and times. Once approved by ARRC, the Contractor shall follow the plan without any variation whatsoever unless a modification is approved by the Chief Engineer. ARRC reserves the right to assume control of the work to reestablish rail service if the schedule is not met. The Contractor shall bear all costs and damages which may result from failure to meet the closure schedule, in addition to the Train Delay charges provided for in these Supplemental Conditions and Contract Documents.

No track closures will be permitted that impact or restrict the movement of regularly scheduled passenger trains, see <a href="https://www.alaskarailroad.com/ride-a-train/schedules">https://www.alaskarailroad.com/ride-a-train/schedules</a> for published train schedules.

ARRC will commit to an outage 7 calendar days in advance. Prior to that, ARRC can cancel and/or reschedule the track outage.

- 1. Track Closures, unless approved otherwise, will only be allowed:
  - a. Most days an 8 hour track outage is available at different times during the day.
- 2. The above listed train schedule is provisional and may change. Train traffic must not be impeded.

- 3. Specific work windows/track closures have not been determined; ARRC expects to work with the successful bidder during the preconstruction phase to determine appropriate work windows.
- 4. The track outages are not for the contractor's exclusive use. The ARRC will be using the outage and hours to perform their tasks. The contractor will be required to have adequate staff and equipment to do the work in the time allotted. 24 hour shifts during track outages may be mandatory.

#### Track Closure(s) Impacting Track Structure:

Track closures impacting track structure shall be carefully planned and scheduled. Work windows must be closely coordinated with both ARRC Marketing (for potential freight traffic) and Maintenance of Way (MoW) forces. Planning and coordination with ARRC shall address, at a minimum, the following:

- 1. Phasing: Ensuring that activities that have a high probability of fouling or damaging the tracks are performed after the safe movement of ARRC on-rail equipment (*to include trains*).
- 2. Inspection: Upon completion of track disturbing activities, all materials shall be removed such that no construction materials foul the tracks such that it affects the safe passage of on-rail equipment (*to include trains*). Once all materials foul of the track have been removed, all ARRC structures within the project limits shall be inspected by a qualified track inspector prior to returning that track to service.
- 3. Repair. After the track and other critical infrastructure have been inspected by their respective qualified ARRC inspectors, any damage identified as a result of the Contractor's activities must be repaired prior to returning the track to service or commencing any additional contract Work. Damage to the track structure, from contractor's work activities must be repaired at the contractor's expense.

Prior to performing any repair work, the Contractor shall provide ARRC with a repair plan for review and approval prior to performing said work. ARRC internal forces may be required to perform any track related repairs. Repairs on the track structure performed by the Contractor will need to be inspected by a qualified ARRC track inspector prior to acceptance of the repairs by the Owner or its designated representative.

Other On-Track Railroad Activities: Other Railroad on-track activities that will pass through the construction site include snow plowing, track inspection, and track maintenance needs. In-service track is inspected, in accordance with federal regulations, twice a week by hyrail. The Owner will coordinate these other activities whenever possible with freight operations to avoid interfering with available track closures.

ARRC Work Train: If the contractor would like to use rail and or train support outside that which is provided by ARRC, all cost shall be placed on the Contractor. Rates, schedules and details must be arraigned with ARRC Marketing. There are potential for cost savings for both ARRC and the contractor if work train coordination can be arranged such that project support items are scheduled by the contractor and arranged during the same work windows that ARRC will also be performing their portions of the work, also using the company work train at the same time and within the general project vicinity. If the contractor would like to work in conjunction with the ARRC work train they must abide by the following guidelines:

- The Contractor shall provide a minimum 21-day notice for ARRC work train coordination and use for mobilization, demobilization, loading/unloading materials at a yard designated by ARRC.
- For Work Train use during track outages the Contractor shall request the Work Train as part of their submitted closure plan and request for proposed track outage date as described in these Supplemental Conditions.
- The ARRC may utilize a Work Train to move equipment and materials to and from the project site as necessary.
- ARRC work trains to mobilize and demobilize jobsite facilities and equipment and materials at ARRC's convenience.
- ARRC may provide for a dedicated work train for mobilization at the start of the season and one dedicated work train for demobilization at the end of the season, see Item No. 1 (640.0001.1) Mobilization and Demobilization.
- Contractor shall provide at least four (4) people to remove load securements, two (2) operators and one (1) supervisor at the site during unloading of equipment and materials for mobilization and demobilization.

Marshalling area is available at the ARRC Anchorage Yard for moving Contractor equipment. ARRC may consider alternate marshalling areas proposed by the Contractor.

Materials will be loaded at the yard designed by ARRC. ARRC may consider alternate areas proposed by the Contractor.

Overtime, stand-by time, or delays caused by work train schedules are the Contractor's responsibility.

ARRC Work Trains hours of service may and will not exceed 12 hours. Hours of service are set by Federal Regulations. Delays to the work train will be as outlined in these Contract Documents.

# SC-06 - Train Delays

The Contractor shall conduct their operations so as to minimize interference with rail traffic. The Contractor shall not proceed with any portion of the work until they have obtained specific authority and directions from the proper representative of the Railway and has the approval of the Engineer. If the Contractor fails to comply with the above and performs their work in a manner that causes unreasonable delays to the train operations of the Railway, they shall be liable for any additional operating costs incurred by the Railway for such delays and shall reimburse the Railway upon receipt of bills thereafter. If continual detention occurs to train operations, the Railway reserves the right to take the work from the Contractor, after written notice is given by the Engineer.

All work on ARRC Property shall be conducted in such a manner as to prevent delays to trains or other rail traffic operated by ARRC. Should any of the Permittee/Contractor's or its subcontractor's actions or activities cause delays to trains or other rail or water traffic, the agreed amount of liquidated damages shall be at the following rates and shall be collected from the Permittee/Contractor by ARRC.

- 1. Passenger trains each: \$50 per minute of delay, 60-minute minimum charge.
- 2. All other rail traffic: \$50 per minute for each delay over five minutes, 30-minute minimum charge.
- 3. Rail barges or other Connecting Carrier Vessels: No charge for delays of one hour or less; \$1,000 per hour for each hour or any part of an hour thereafter with a minimum charge of \$6,000.

Delay time will be taken from the train sheet in ARRC's Dispatcher's Office, Anchorage for all delays and each train sheet shall be the official document by which the length of time a train is delayed will be determined. If another crew is needed to relieve the original crew, the charge shall also apply to the second crew. If such delay causes a water carrier to miss a sailing, the liquidated damage computation of time covering the period of time to the next possible sailing time shall be in addition to the length of time determined by said train sheet.

No claim by the Contractor against the Railway will be allowed for delays caused by Railway operations. The Contractor shall reimburse any costs incurred by the Railway for repairing damage to track or other facilities resulting from the Contractor's work. The Contractor shall assume all responsibility for any and all damages to their work, men and equipment caused by the operations of the Railway.

## SC-07 - Stability of Track, Structures, and Earth Cuts

The Contractor shall maintain the stability of track, structures and earth cuts throughout construction operations, such as by sloping excavations, installing temporary supports, shoring, bracing or other measures as may be necessary.

The Contractor shall submit all plans for maintaining the stability of track, structures and earth cuts to the Railway for the Engineer's review and acceptance. Such plans shall be submitted and approved at least 7 days prior to the installation or employment of the proposed measures. In addition, track outage notification and approval requirement discussed in SC-05 of this specification must also be adhered to.

The Railway's review and acceptance of the Contractor's measures for maintaining the stability of track, structures and earth cuts shall in no way relieve the Contractor of responsibility for the feasibility and safety of these measures.

#### SC-08 – Payment for Material On Hand

- 1. <u>Partial Payment</u>. The Owner will make partial payment for materials designated for incorporation into the work. The material shall:
  - a. Meet Contract requirements

- b. Be delivered and stockpiled at the project or other ARRC approved location
- c. Be supported by invoices, freight bills, and other required information
- d. Not be living or perishable.
- 2. Payment Requests. The Contractor shall make each payment request in writing and:
  - a. List stockpiled items, quantities of each, and stockpile location(s)
  - b. Certify that materials meet the applicable Contract specifications
  - c. For purchased materials, attach copies of invoices, freight bills, and manufacturer's published storage recommendations
  - d. For Fabricator-produced materials, attach production statements showing quantities and dates produced and copies of process quality control test results
  - e. Include other information requested by the Owner
- 3. <u>Storage Conditions</u>. The Contractor shall protect material from damage or loss while in storage. The Contractor shall:
  - a. Physically separate stockpiled materials from other materials at the storage location
  - b. Clearly label materials with the project name and number
  - c. Store materials per the manufacturer's recommendations

If storage conditions become unsatisfactory, liens are filed on any materials, or the storage location is changed without approval, the Owner will deduct any previous payments made for such materials.

- 4. <u>Method of Payment</u>: The Owner will include payments for acceptably stockpiled materials in the progress estimate following receipt of the Contractor's written request and all required documentation. The Owner will:
  - a. Pay for materials purchased by the Contractor at the delivered cost but not to exceed 85 percent of the Contract amount for those items
  - b. Pay for materials produced by the Contractor at up to 50 percent of the Contract amount for those items
  - c. Deduct the Owner's cost to inspect materials stored off the limits of the project
  - d. Deduct partial payment quantities as they are incorporated into the project

The Contractor shall release and discharge ARRC from any liability for damages or delays related to the storage or transport of, and to the payment for, material on hand.

The Owner's payment for material on hand will not constitute final acceptance by the Owner.

# SC-09 - Contract Time, Extension of Contract Time and Suspension of Work

Contract time will be specified in calendar days, by completion date, or both.

- Calendar Days. 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. If no starting day is specified in the Contract, the count of Contract time begins on the day following receipt of the Notice to Proceed by the Contractor.
  - Calendar days shall continue to be counted against Contract time until and including the date of project completion.
- 2. Completion Date. When the contract time is specified on a completion date basis, all work under the Contract shall be completed by the specified completion date.
- 3. Reasons for Suspension of Work and Extension of Contract Time. The Owner may order a suspension of work for any reason listed in this subparagraph 3, items a through p.

The Owner shall not pay additional compensation, but may extend Contract time only, if there are delays in the completion of controlling items of work from unforeseeable causes that are beyond the Contractor's control and are not the result of the Contractor's fault or negligence, including:

- a. Acts of God
- b. Acts of the public enemy
- c. Fires
- d. Floods
- e. Epidemics or pandemics
- f. Quarantine restrictions
- g. Strikes
- h. Freight embargoes
- i. Unusually severe weather
- j. Delays by utility owners beyond completion dates specified in the Contract provisions for relocating or adjusting utilities and related facilities; or
- k. Delays of subcontractors, suppliers and fabricators from unforeseeable causes beyond the control of the subcontractors, suppliers or fabricators and that are not the fault of the subcontractors, suppliers or fabricators, including those causes listed in this Subparagraph 3, Items a through j.

No additional Contract time or additional compensation will be allowed due to delays caused by or suspensions ordered due to, but not limited to, the following:

- a. Failure to correct conditions that create risk of imminent harm for the traveling public, violations of the Contract or any applicable federal, state, and local laws, rules, regulations, and ordinances
- b. Adverse weather that is not unusually severe
- c. Failure to carry out Contract provisions
- d. Failure to carry out orders given by the Owner
- e. Failure to timely obtain materials, equipment, or services

The Contractor shall notify the Owner as soon as the Contractor becomes aware of any act or occurrence that may form the basis of a request for a time extension under this Supplemental Condition. The Contractor shall submit a request for a time extension to the Owner within 10 days of the act or occurrence, and if an agreement is not reached, the Contractor may submit a Claim in accordance with the ARRC General Conditions.

The time allowed in the Contract, as awarded, is based on performing the original estimated quantities of work set out in the bid schedule. An assertion that insufficient time was originally specified shall not constitute a valid reason for extension of contract time.

If satisfactory fulfillment of the Contract requires extra work, the Owner may extend Contract time according in accordance with the General Conditions.

- 4. <u>Suspension of Work</u>. The Owner will suspend work on the project, in whole or in part, for such periods and for such reasons as the Owner determines to be reasonable, necessary, in the public interest, or for the convenience of the Owner.
  - a. The Owner will issue a written order to suspend, delay, or interrupt all or any part of the work. The Contractor shall not be compensated for the suspension, delay, or interruption if it is imposed for a reasonable time under the circumstances.

- b. Unless another Contract section specifically provides otherwise, the Contractor will be compensated by equitable adjustment for a suspension, delay, or interruption of the work only if:
  - (i) The period of suspension, delay, or interruption is for an unreasonable time under the circumstances and another Contract section allows compensation in the event of a suspension, delay, or interruption of the work under the circumstances that actually caused the suspension, delay, or interruption; or
  - (ii) The delay, suspension, or interruption results from the Owner's failure to fulfill a contractual obligation to the Contractor within the time period specified in the Contract or, if no time period is specified, within a reasonable time.
- c. No equitable adjustment will be made under this Supplemental Condition for any suspension, delay, or interruption of the work if the Contractor's performance would have been suspended, delayed, or interrupted by any other cause for which:
  - (i) The Owner is not responsible under the Contract, including the Contractor's fault or negligence; or
  - (ii) An equitable adjustment is either provided for or excluded under any other section of this Contract.
- d. Claims for equitable adjustments under this Supplemental Condition shall be filed in accordance with the ARRC General Conditions except that:
  - (i) The Contractor must give written notice of intent to claim no later than 20 days after the event giving rise to the delay, suspension, or interruption
  - (ii) The claim may not include any costs incurred more than 20 days before the Contractor files the Contractor's written notice of intent to claim
  - (iii) The Contractor must submit a written request for adjustment within 7 calendar days of receipt of the notice to resume work
  - (iv) No profit will be allowed on an increase in cost necessarily caused by the suspension, delay, or interruption

Claims may be made for the reasons listed in and in accordance with subsection 105-1.17. Claims will be reviewed on a case-by-case basis.

## SC-10 - Failure to Complete on Time

For each calendar day that the work is not substantially complete after the expiration of the Contract time or the completion date has passed, the Owner shall deduct the <u>full daily charge of \$4,800</u> from progress payments.

Permitting the Contractor to continue work after the Contract time has elapsed or the completion date has passed does not waive the Owner's rights to collect liquidated damages under this Supplemental Condition.

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 train 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.

# SC-11 – Compensation for Altered Quantities

Payment to the Contractor for unit price items shall be made only for the actual quantities of work performed and accepted or materials furnished, in conformance with the Contract. When the accepted quantities of work or materials vary from the quantities stated in the bid schedule, the Contractor shall accept payment at the original Contract unit prices for the quantities of work and materials furnished, completed and accepted as payment in

full. Payment at the Contract unit price shall compensate the Contractor for all costs, expenses, and profit that the Contractor is entitled to receive for the altered quantities, except as provided below:

When the final quantity of a Major Contract Item (as defined in subsection 101-1.03) varies more than 25 percent above or below the bid quantity, either party to the Contract may receive an equitable adjustment, excluding anticipated profits, in the Contract unit price of that item. If the final quantity of work is greater than 125 percent of the bid quantity, the equitable adjustment will be made only for those units that are in excess of 125 percent of the bid quantity. If the final quantity of work is less than 75 percent of the bid quantity, the equitable adjustment will be made for those units of work done and accepted, except that the total payment for the item shall not exceed 75 percent of the total amount bid for the item.

Except as provided in subsection 104-1.02, no allowance shall be made for any increased expenses, expected reimbursement, or anticipated profits suffered or claimed, either directly from alterations in quantities or indirectly from unbalanced allocations among the contract items on the part of the bidder and subsequent loss of expected reimbursements, or any other causes.

### SC-12 - Minimum Work to be Performed by the Contractor

The Contractor shall perform with their own organization not less than 51% of the original contract base amount.

## SC-13 - Contractor Based On-Track Equipment Operation

In the event that the Contractor elects to utilize their own on-track equipment, all operation of on-track equipment shall be performed by individuals in accordance 49 CFR Part 214, Subpart D – On-Track Roadway Maintenance Machines and Hi-Rail Vehicles. Operation of on-track equipment shall only be by a trained Roadway Maintenance Machines operator.

## SC-14 – Permits and Environmental Protection

The Contractor shall obtain any and all permits as may be necessary to complete the work under this Contract. The Contractor shall determine what is required of them by such permits and shall provide copies of any and all such permits to the Railway's Engineer and Supervisor. The Contractor shall take sufficient precautions to prevent pollution of the natural environment with fuels, oils, bitumens, calcium chloride, or other harmful substances. The Contractor shall conduct his work in full compliance with all federal, state, and local regulations pertaining to remediation, water quality and soil erosion and sedimentation control. An Alaska Department of Fish and Game Title 16 Fish Habitat Permit may be required, and if so, shall be provided by the Railway.

## SC-15 – Railroad Worker Safety

The Contractor shall ensure that their entire work force, including employees, agents and subcontractors, fully comply with all applicable safety regulations of the Federal Railroad Administration (FRA). Attention is directed to the requirements for fall protection, protective footwear and headgear, eye and face protection, hearing protection, and hi-visibility clothing. Particular attention is directed to the requirements of the FRA Railroad Workplace Safety Rules, 49 C.F.R. Part 214. The Contractor must, at all times, maintain a copy of the Program Manual at the job site, along with all Operations Division Bulletins referenced therein. It shall be the Contractor's sole responsibility to ensure that their entire work force has been properly trained in all applicable provisions of the Program.

Particular attention is directed to the provision concerning the Roadway Worker in Charge (R.W.I.C.), and following instructions of the R.W.I.C. Each Worker must know, at all times, who the designated R.W.I.C is. Employees, agents and subcontractors who have not been properly trained may not enter the Railway's right of way. The Contractor shall maintain documentation that each of their employees, agents and subcontractors has been properly trained and fully understands their responsibilities regarding their safety and the safety of their coworkers. This documentation must be available at all times for inspection by the Railway or FRA officers. SEE ATTACHMENT Contractor Safety Requirements.

## SC-16 - Anchor Rods

<u>Description</u>. The work covered by this section consists of furnishing, installing, stressing, and testing anchor rods at the locations, orientations and loads designated in the Plans or as directed. Supply all materials, equipment,

and labor necessary to install and test the anchor rods in accordance with these Special Provisions, the Standard Specifications, and as detailed in the Plans.

Anchor rods are post-tensioned to the lock-off load detailed in the table below and included in the plans, fully grouted, deformed steel bars that actively reinforce a retaining structure.

2ND ROW 1ST ROW 3RD ROW LOCK-LOCK-LOCK-**ELEV** DESIGN OFF **ELEV** DESIGN OFF DESIGN OFF **ANCHOR** LOAD (K) LOAD (K) **ANCHOR** LOAD (K) LOAD (K) **ANCHOR** ELEV (FT) LOAD (K) (FT) (FT) LOAD (K) 357.07 A1-1 6 A2-1 357.07 A2-2 351.32 23 23 0 11 11 A3-1 352.57 11 11 A3-2 346.57 35 35 0 A4-1 352.57 48 48 A4-2 346.57 35 35 0 A5-1 352.57 48 48 A5-2 346.57 35 35 0 A6-1 352.57 48 48 A6-2 346.57 35 35 0 A7-1 352.57 48 48 A7-2 346.57 35 35 0 A8-1 352.57 48 48 A8-2 346.57 35 35 0 48 35 35 A9-1 352.57 48 A9-2 346.57 0 48 35 35 A10-1 352.57 48 A10-2 346.57 0 48 48 346.57 35 35 0 A11-1 352.57 A11-2 35 A12-1 352.57 48 48 A12-2 346.57 35 0 24 340.57 352.57 48 48 A13-2 346.57 24 A13-3 56 A13-1 56 48 48 24 24 340.57 56 A14-1 352.57 A14-2 346.57 A14-3 56 346.57 A15-1 352.57 48 48 A15-2 35 35 0 A16-1 354.57 28 28 A16-2 350.57 33 33 0 A17-1 354.57 13 13 A17-2 350.57 26 26 0 A18-1 354.57 6

**Table 1 – Anchor Data Table** 

The Contractor may propose alternative anchor types (*i.e.:* mechanical, single-stage, epoxy, etc.) subject to approval by the Engineer. The Contractor is responsible for achieving the required loads and anchor locations.

## 1 MATERIALS

Shall conform to the following:

1. Anchor Rods. Provide single element bars for the anchor rods, including anchorage, bearing plates, couplers, corrosion protection, and other appurtenances from a manufacturer regularly engaged in the manufacturing of materials for the construction of anchor rods. Provide bars that are continuously threaded steel reinforcement bars conforming to ASTM A722, Grade 150 deformed bar that are capable of being post-tensioned to the design loads, performance test loads, and proof loads. Provide anchor bar with hot dip galvanizing for corrosion protection. Comply with ASTM A153 for the hot dip galvanizing with a minimum thickness of 3.9 mils.

#### 2. Appurtenances. Provide the following:

- a. <u>Anchorage Devices</u>. Supply anchorage devices (plates, nuts, washers, couplers) capable of developing 95 percent of the minimum gross ultimate tensile strength (GUTS) of the approved pre-stressing steel (bar).
- b. <u>Bearing Plates</u>. Supply bearing plates conforming to ASTM A709, Grade 50. Size the bearing plates so the bending stresses in the plate do not exceed the yield strength of the steel when a load equal to 100 percent of the Specified Minimum Tensile Strength (SMTS) is applied. Use mild steel for the bearing plate, not less than 0.75 inches in thickness and not less than eight (8) inches square. Use key-hole bearing plates that have a central hole large enough to fit easily over the bolt while maximizing the average bearing surface for the washer and the nut.
- c. <u>Nuts and Washers</u>. Provide nuts and couplers that conform to AASHTO M169 for a Grade 150 bar. Couplers shall be rated such that they exceed 100 percent of the SMTS of the bar. Provide beveled washers conforming to ASTM A536 or ASTM A47. Spherical seating of the nut is not required. Use flat hardened and beveled washers to accommodate non-perpendicular installations.

- d. <u>Centralizers</u>. Provide centralizers fabricated from metal, plastic, or material which is non-detrimental to the pre-stressing steel. Do not use wood centralizers.
- e. <u>Corrosion Protection</u>. Galvanize all bearing plates in accordance with either AASHTO M111 or AASHTO M232. Galvanize all nuts and couplers in accordance with AASHTO M232. Galvanize washers in accordance with AASHTO M232.
- f. Grout. In accordance with subsection 701-2.03.

## 2 CONSTRUCTION REQUIREMENTS

Provide an on-site Drill Foreman and all installation personnel with experience installing and testing rock anchors and dowels. Submit the following for approval at least thirty (30) days before starting work

- 1. <u>Qualifications</u>. Provide an on-site Drill Foreman and all installation personnel with experience installing and testing rock anchors and dowels. Submit the following for approval at least 30 days before starting work:
  - a. Names, contact information, and roles of personnel; and
  - b. Provide a resume for the drill foreman and all installation personnel that demonstrate their drilling experience for the rock anchoring and doweling requirements under this contract. Provide documentation of safe and satisfactory drill work experience. The drill foreman and installation personnel need to provide project owner information that includes name, title, and current contact information for each job submitted.
  - c. The drill foreman must have installed a minimum of 3,000 linear feet of rock anchors and dowels on a minimum of 5 projects over the past 5 years, and the drill operator(s) must have installed a minimum of 1,000 linear feet of rock anchors and dowels on a minimum of 3 projects over the past 5 years.
  - d. The Contractor must have at least 2 years of experience installing rock anchors and dowels.
- 2. <u>Submittals</u>. At least thirty (30) days before starting anchor installation, submit the following in an Anchor Bolting Work Plan according to Subsection 106-1.08:
  - a. Start date, construction sequence, and number of workers to be used for anchor installations
  - b. Method of access and drilling including equipment and drill hole diameter
  - c. Anchor type, length, and diameter including manufacturer's product data sheets, specifications, catalog cuts, and mill certificates
  - d. Couplers, bearing plates, washers (*flat and beveled*), nut, stressing anchorages, centralizers, and bond breakers (*if applicable*) with manufacturer's product data sheets, specifications, catalog cuts, and mill certificates. Include manufacturer's verification for the bearing plate thickness for the specified anchor capacities
  - e. Manufacturer recommendations for bar and hardware handling, storing, and working temperature ranges
  - f. Grout type, mix design, placement procedures, and manufacturer's product data sheets, specifications, and catalog cuts
    - Cement grout. Mixing equipment and 3-day grout compressive strength test results.
      - Single-stage cement grouting. Fabrication details for proposed bond-breaker in the free stressing zone, when applicable.
  - g. The methods, equipment and materials that will be used to control excessive grout injection volumes when open joints, seams or loose material is encountered
  - h. Manufacturer certification and statement of manufacturer's compliance for galvanization along with procedures and material for repairing galvanized bars in the field

- i. Details for placing, stressing and testing rock anchors and dowels. Schedule of a test installation to demonstrate anchor installation, testing equipment and procedures
- j. Methods for verifying hole diameters
- k. Special installation methods (such as upwardly inclined reinforcements, grouting across open joints, or debris-filled discontinuities used to ensure a fully-grouted, well-protected installation) when applicable
- I. Report documentation examples including installation and testing report formats
- m. Identification number and calibration test certification for each jack, pressure gauge, and electronic load cell. Clearly indicate the serial number of each component of the testing assembly on calibration graphs. Submit results from calibration tests conducted by an independent testing laboratory within the previous sixty (60) days

## **3 GENERAL REQUIREMENTS**

 Install the anchors in accordance with the details, detailed photographs and anchoring installation schedule shown in the Plans and as directed. Included in the Construction Phasing Plan in Item No. 14 (646.0001.1) – CPM Scheduling, the Contractor is to provide an order of operations for the installation of walers and anchors, installing backfill, and tensioning anchors once the exploratory drilling and depth of pile installation is known.

Work site safety is the responsibility of the Contractor. Perform all work in a manner to minimize exposure to the public, construction personnel, and equipment to hazardous and potentially hazardous conditions. Temporary support of utilities and rock blocks, special designs, or installation procedures that the Contractor deems necessary to safely install rock anchors and dowels are the responsibility of the Contractor and will be implemented at the discretion of the Contractor.

# 4 MATERIAL HANDLING AND STORAGE

Handle and store the anchors in such a manner as to avoid damage and corrosion of the coating and the steel. Protect the anchors from dirt, nicks, abrasions, weld splatter, rust, and corrosive substances. Damaged anchors will be rejected, and replacement will be at no additional cost to the Owner.

## 5 DRILLING AND INSTALLATION

- 1. Furnish equipment capable of drilling a 3-inch minimum diameter hole up to 40 feet in length in the rock found at the project sites for installation of anchor. Install anchors with the capacities and lengths as shown in the Plans.
- 2. Drill and install anchors at the locations, orientations, and to the minimum lengths shown on the Plans and anchoring installation schedule or as directed by the Engineer. Total anchor lengths will vary based on encountered subsurface conditions and may be adjusted by the Engineer.
- 3. Use the types of anchoring methods described in the anchoring plan. Drill the anchors at the angles specified in the plans.
- 4. Over drill the length of each hole nominally ten (10) inches. Flush the drill holes of all drill cuttings and debris with compressed air prior to the installation of the rock anchor. Re-drill holes in which anchor installation is not possible at no additional cost to the Owner.
- 5. The anchor bar must be inserted into the drilled hole to the desired depth without difficulty. When the bar cannot be completely inserted, it must be removed, and the drill hole cleaned or re-drilled to permit insertion. Partially inserted anchor bars must not be driven or forced into the hole.
- 6. Install a bond breaker through the stressing (*unbonded*) length of the anchor to provide anchor bond zones. Anchors with bond breaker fabricated by the manufacturer can be installed concurrently with the anchor.
- 7. Place centralizers on the bar on 10-foot centers prior to grouting with a minimum of two (2) centralizers per anchor. The lower centralizer should be located within two (2) feet nominally of the end of the bar.

The outer centralizer should be located within three (3) feet nominally of the rock face. Do not place centralizers on the bond breaker.

- 8. Install the anchor and bearing plate so the axis of the anchor is within five (5) degrees of being perpendicular to the bearing plate so that the rock anchor is not bent when tensioned.
- 9. Treat all exposed parts of the anchor, bearing plate and nut with an approved corrosion-protection paint or epoxy patching compound.

## 6 **GROUTING**

- 1. Provide a minimum grout strength of 3,000 psi prior to stressing an anchor.
- 2. Two-stage grouting is required for the rock anchors. The first stage grouting is to fill the rock bond length and half of the unbonded length with grout. The second stage grouting is to fill the remaining length of the installation after successful post tensioning and lock-off.
- 3. Use mixing and pumping equipment that produces a uniformly blended grout free of lumps and undispersed cement. Equip the pump with a pressure gauge near the discharge end to monitor grout pressures. Size the grouting equipment appropriately to enable the grout to be pumped in one continuous operation without segregation. Inject the grout from the lowest point (distal end or bottom) of the drill hole.
- 4. Record the quantity of the grout placed for each anchor. The amount of grout required will be more than the neat volume represented by the annulus space between the drill hole and the anchor times the length of the anchor hole. Allow the grout to fully cure before tensioning or applying any load.
- 5. Prepackaged grouts conforming to the Class C requirements of PTI M55.1 may be used without requiring laboratory or preproduction testing. Should the contractor deviate from a prepackaged grout a minimum of the first two (2) grout batches, require a grout cube sampling program with companion mud balance tests. The program will consist of:
  - a. Mix a sufficient volume of grout to fill the hopper and grout hoses.
  - b. Obtain all samples from the end of a length of grout hose that would be required for installing a rock anchor. Do not sample from the hopper or grout plant.
  - c. Perform a mud balance test and record the specific gravity of the grout per ASTM D4380.
  - d. Form six (6) grout cubes in 2-inch brass molds and cure in accordance with ASTM C109.
  - e. Perform a second mud balance test after the cubes are taken and record the specific gravity of the grout per ASTM D4380.
  - f. Repeat steps b-e to cast a second set of grout cubes with companion mud balance tests.
  - g. Determine the compressive strength of the grout by breaking two cubes from each set at 3-, 7-, and 28-days.
  - h. Submit the results of the mud balance and the compressive strength test results to the Owner as they are completed.
  - i. For subsequent grout batches, perform a mud balance test per ASTM D4380 prior to grouting each rock anchor. Verify the specific gravity is within ±0.1 of the test values, or other criteria as specified by the Engineer based on the results of the test program.
- 6. Grout placed during the sampling and testing program may be used on production anchors. Test program grout that does not meet the specified grout strength may be grounds for rejection of the rock anchor and replacement at no cost to the Owner. If grout strengths do not meet the strength criteria, additional sampling and testing will be required at no cost to the Owner.
- 7. Check the grout level the next day through the key-hole and top off with additional grout using a tremie tube to fill the annular space. Any time additional grouting is needed, recheck the level the following day and repeat as necessary until proper grout level is achieved.

# 7 TESTING OF ANCHORS

Each anchor must be load tested by the Contractor. No load greater than 10% of the design load may be applied to the anchor prior to load testing. The test load must be simultaneously applied to the entire anchor bar.

Tensioning of the anchors is not permitted until the embankment behind the retaining structure has been placed and compacted to the level detailed in Item No. 4 (205.0009.1) – *Porous Backfill Material*.

- Equipment. The stressing equipment must be placed over the anchor bar in such a manner that the jack, bearing plates, load cell and stressing anchorage are axially aligned with the anchor bar and the anchor bar is centered within the equipment.
  - a. <u>Dial Gauge or Venire Scale</u>. Capable of measuring displacements to 0.001 inches must be used to measure anchor movement. It must have adequate travel so total anchor movement can be measured without resetting the device.
  - b. <u>Hydraulic Jack</u>. A hydraulic jack and pump must be used to apply the test load. The jack and a calibrated pressure gauge must be used to measure the applied load. The pressure gauge must be graduated in 100-psi increments or less. When the theoretical elastic elongation of the total anchor length at the maximum test load exceeds the ram travel of the jack, the procedure for recycling the jack ram must be included in the shop drawings. Each increment of test load must be applied in one minute or less.
  - c. <u>Reference Pressure Gauge</u>. A calibrated reference pressure gauge must be available at the site. The reference gauge must be calibrated with the test jack and pressure gauge.
  - d. <u>Load Cell</u>. An electrical resistance load cell with readout must be provided for the performance of the creep test(s).
- 2. <u>Performance Tests</u>. Five percent of the anchors or a minimum of three anchors, whichever is greater, must be performance tested in accordance with the following procedures.

The Engineer will select the anchors to be performance tested. The remaining anchors must be tested in accordance with the proof test procedures outlined herein. The performance test must be made by incrementally loading and unloading the anchor in accordance with the following schedule or as indicated on the Plans. The load must be raised from one increment to another immediately after recording the anchor movement. The anchor movement must be measured and recorded to the nearest 0.001 inches with respect to an independent fixed reference point at the alignment load and at each increment of load. The load must be monitored with a pressure gauge. The reference pressure gauge must be placed in series with the pressure gauge during each performance test. If the load determined by the reference pressure gauge and the load determined by the pressure gauge differ by more than 10%, the jack, pressure gauge and reference pressure gauge must be recalibrated. At load increments other than the maximum test load, the load must be held just long enough to obtain the stationary displacement reading.

Table 2 – Performance Test Schedule

STEP	TEST	STEP	TEST
1	Load		AL
2	AL	6	0.25 DL
	0.25 DL		0.50 DL
3	AL		0.75 DL
	0.25 DL		1.00 DL
	0.50 DL		1.20 DL
4	AL	7	AL
	0.25 DL		0.25 DL
	0.50 DL		0.50 DL
	0.75 DL		0.75 DL
	AL		1.00 DL
5	0.25 DL		1.20 DL
	0.50 DL		1.33 DL
	0.75 DL	8	AL
	1.00 DL		Adjust to
			Lock-off
			Load

Where AL = Alignment Load DL = Design load for anchor

The maximum test load in a performance test must be held for 10 minutes. The jack must be re-tension as necessary in order to maintain a constant load. The load-hold period must start as soon as the maximum test load is applied and the anchor movement measured and recorded at 1 minute, 2. 3, 4, 5, 6, and 10 minutes. If the anchor movements between 1 minute and 10 minutes, exceeds 0.04 inches, the maximum test load must be held for an additional 50 minutes. If the load hold is extended, the anchor movement must be recorded at 15 minutes, 20, 25, 30, 45 and 60 minutes.

A graph must be constructed showing a plot of anchor movement versus load for each load increment marked with the asterisk (\*) in the performance test schedule and a plot of the residual anchor movement of the anchor bar at each alignment load versus the highest previously applied load. Graph must be approved by the Engineer prior to use.

3. Proof Tests. Those anchors not subjected to a performance test shall be tested as specified herein.

The proof test must be performed by incrementally loading the anchors shown on the Plans and in accordance with the following schedule unless a different maximum test load schedule is indicated on the Plans.

The load must be raised from one increment to another immediately after recording the anchor movement. The anchor movement must be measured and recorded to the nearest 0.001 inches with respect to an independent fixed reference point at the alignment load and at each increment of load. The load must be monitored with a pressure gauge. At load increments other than the maximum test load, the load must be held just long enough to obtain the movement reading.

<sup>\* =</sup> Graph required. See last paragraph in this subsection.

**Table 3 – Proof Test Schedule** 

STEP	TEST	STEP	TEST
1	AL	6	1.2 AL
2	0.25 AL	7	1.33 AL
3	0.50 AL	8	AL (optional)
4	0.75 AL	9	Adjust to lock-off load
5	1.0 AL		

Where: AL = Alignment Load

The maximum test load in a proof test must be held for 10 minutes. The jack must be re-tension as necessary in order to maintain a constant load. The load-hold period will start as soon as the maximum test load is applied and the anchor movement must be measured and recorded at 1 minute 2, 3, 4, 5, 6 and 10 minutes. If the anchor movements between 1 minute and 10 minutes, exceeds 0.04 inches, the maximum test load must be held for an additional 50 minutes. If the load hold is extended, the anchor movement must be recorded at 15 minutes, 20, 25, 30, 45 and 60 minutes. A graph must be constructed showing a plot of anchor movement versus load for each load increment in the proof test. Graph format must be approved by the Engineer prior to use.

4. <u>Creep Tests</u>. Creep tests must be performed on anchors that show continuous displacement at 10 min and 1.33 DL during performance or proof testing.

The Engineer may also select anchors to be creep tested. The creep test must be made by incrementally loading and unloading the anchors in accordance with the creep test schedule used. At the end of each loading cycle, the load must be held constant for the observation period specified or as indicated on the Plans. The time for reading and recording the anchor movement during each observation period must be 1 minute, 2,3,4, 5, 6, 10, 15, 20, 25, 30,45, 60, 75, 90, 100, 120, 150, 180, 210, 240, 270, and 300 minutes as appropriate. Each load hold period must start as soon as the test load is applied. In a creep test the pressure gauge and reference pressure gauge must be used to measure the applied load, and the load cell must be used to monitor small changes of load during a constant load hold period. The jack must be re-tensioned as necessary in order to maintain a constant load.

**Table 4 – Creep Test Schedule** 

STEP	TEST	OBSERVATION PERIOD, MINUTES
1	AL	10
2	0.25 DL	10
3	0.50 DL	30
4	0.75 DL	30
5	1.0 DL	45
6	1.20 DL	60
7	1.33 DL	300

Where AL = Alignment Load DL = Design load for anchor

A graph must be constructed showing a plot of the anchor movement and the residual movement measured in a creep test as described for the performance test. Also, a graph must be constructed showing a plot of the anchor creep movement for each load hold as a function of the logarithm (base 10) of time in minutes. Graph formats must be approved by the Engineer prior to use.

5. <u>Completion</u>. After tensioning and achieving a successful anchor proof or load test, lower the tension and lock off the load at 100 percent of the design load with a nut and washer (flat and/or beveled) as needed

to ensure that the nut is flush against the bearing plate. Trim the end of the completed anchor as shown on the Plans.

## **8 ACCEPTANCE OF ANCHORS**

If the total movement of any anchor at the maximum test load does not exceed 80% of the theoretical elastic elongation of the unbonded length, the anchor must be replaced at the Contractor's expense.

An anchor which has a creep rate greater than 0.08 inches per log cycle of time can be incorporated into the structure at a design load equal to one-half of its failure load. The failure load is the load resisted by the anchor after the load has been allowed to stabilize for 10 minutes.

When an anchor fails, the Contractor must modify the design and/or the installation procedures. These modifications may include, but are not limited to, installing a replacement anchor, reducing the design load by increasing the number of anchors, modifying the installation methods, increasing the bond length or changing the anchor type. Any modification which requires change to the structure must be approved by the Engineer. Any modifications of design or construction procedures must be without additional cost to the Railway and without extension of contract time.

Retesting of a failed anchor will not be permitted unless it has been re-grouted, assuming the failure has not compromised the anchor itself.

- 1. <u>Performance / Proof Tests</u>. A performance-tested or proof-tested anchor with a 10-minute load hold is acceptable if the:
  - a. Anchor resists the maximum test load with less than 0.04 inches of movement between 1 minute and 10 minutes.
  - b. Total movement at the maximum test load exceeds 80% of the theoretical elastic elongation of the unbonded length.
  - c. Total movement at the maximum test load may not exceed the theoretical elastic elongation of the unbonded length plus 50% of the theoretical elastic elongation of the bonded length.
- 2. <u>Performance / Proof Tests</u>. A performance-tested or proof-tested anchor with a 60-minute load hold is acceptable if the:
  - a. Anchor resists the maximum test load with less than 0.08 inches of movement between 1 minute and 10 minutes.
  - b. Total movement at the maximum test load exceeds 80% of the theoretical elastic elongation of the unbonded length.
  - c. Total movement at the maximum test load may not exceed the theoretical elastic elongation of the unbonded length plus 50% of the theoretical elastic elongation of the bonded length.
- 3. <u>Creep Tests.</u> A performance-tested or proof-tested anchor with a 60-minute load hold is acceptable if the:
  - a. Anchor resists the maximum test load with less than 0.08 inches of movement between 1 minute and 10 minutes.
  - b. Total movement at the maximum test load exceeds 80% of the theoretical elastic elongation of the unbonded length.
  - c. Total movement at the maximum test load may not exceed the theoretical elastic elongation of the unbonded length plus 50% of the theoretical elastic elongation of the bonded length.

# 9 WALL DEFLECTION

Lateral and vertical readings must be taken at the top of the retaining wall, at the walers, and at ground level prior to tensioning the anchors against the structure to determine the baseline.

Immediately after anchors have been installed, tested and accepted; obtain lateral and vertical readings at the top of the retaining wall, at the walers, and at ground level.

These readings will be dated, recorded, and reported to the Engineer. The frequency of readings will be dictated by the phase of current construction but must be sufficient to detect serious movements so that corrective measures can be initiated immediately. Reading must be made once per day until settlement is less than 0.125 inches, after which the frequency will be once per week.

## SC-17 - Class A Concrete

The work covered by this section consists of all equipment, materials, supervision, and labor required to fill each pile with Class A concrete and reinforcing steel, as indicated on the Plans, in accordance with the Plans, Sections 501 and 503, Chapter 8 of the AREMA Manual for Railway Engineering, and the latest revision of American Concrete Institute (ACI)'s Guide to Cold Weather Concreting - ACI 306 (*only when applicable*). Prepare each socket in accordance with subsection 501-3.04 and Chapter 8, Part 14 of the AREMA Manual, place concrete in accordance with subsection 501-3.05, and consolidate placed concrete in accordance with subsection 501-3.06.

Provide a Job Mix Design for the required class of concrete and Specified Compressive Strength which meets the requirements of the Plans, subsection 501-2.02, and Table 2 – Summary of Class a Concrete Job Mix Design Criteria. Obtain the Owner's approval of the mix design prior to use. Approval of the Job Mix Design does not constitute acceptance of produced concrete and will not obligate the Owner to accept or pay for concrete that does not meet the mix acceptance requirements of subsection 501-3.03.

Characteristic	Job Mix Design Requirement
Minimum compressive strength at 28 days	4,000 psi
Maximum water-cement ratio	0.46
Cement Type	Type I, IA, III, IIIA per ASTM C150
Cementitious Material Admixtures	*See Table 501-2 of the SSHC
Coarse aggregate size number	AASHTO M 43 No. 57
Fine aggregate	AASHTO M 6, Class A*
Air content	4.0% - 6.0%
Slump	2.0" - 4.0" prior to the addition of
	admixtures; 5.0" - 6.0" prior to pumping.
Deleterious Substance Limits	AASHTO M6, Section 7.1: Class A

Table 5 - Summary of Class a Concrete Job Mix Design Criteria

Material not appearing in the Bid Schedule and contained within, embedded, or attached to concrete elements is subsidiary. Soils and/or materials removed from the sockets are to be disposed of off-site in accordance with all Federal, Local, State and Tribal regulations is subsidiary.

Do not place concrete in sockets retaining water. Concrete is to be consolidated within the socket using vibratory means and methods to the greatest depth practicable.

Quality Control testing of all cementitious materials utilized in support of this Work shall also be subsidiary to this Work and shall be performed in accordance with subsection 501-3.03; AREMA Manual, Chapter 8, Part 1; and as noted on the Plans.

# **APPENDIX G** – Special Conditions

Work shall be completed in accordance with the project drawings, these special conditions, the supplemental conditions, and the technical specifications provided herein. 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 supplemental documents prior to bidding the work, so as to make their own assessment of what means and methods will be necessary to complete the work. It is recommended that prospective Contractors visit the site prior to bidding the work. It must be noted that the existing conditions may be somewhat different due to unrecorded repairs performed since the original design. The Contractor must familiarize himself with the actual condition of the existing structure. No extra payment will be allowed for any variances between the existing conditions and the plans furnished.

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.

**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. Quality Control 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.

<u>ARRC Coordination</u>: Coordination with the ARRC and its on-site representative will be paramount to the successful execution of the Work as the coordination of access to the site and scheduling track outages is critical to the completion of the Work.

<u>Cooperation Between other Contractors and ARRC</u>: In accordance with Subsection 105-1.07, ARRC may exercise its right to mobilize another Contractor to the site to complete other work items in the vicinity. ARRC may, at any time, contract for and perform other or additional work on or near the Project. The Contractor shall allow other contractors and the ARRC personnel reasonable access across or through the Project.

The Contractor shall cooperate with other contractors and ARRC personnel working on or near the Project, and shall conduct work without interrupting or inhibiting the work of others. All contractors working on or near the Project shall accept all liability, financial or otherwise, in connection with their Contract. No claim shall be made by the Contractor or paid by ARRC for any inconvenience, delay, damage or loss of any kind to the Contractor due to the presence or work of other contractors and ARRC personnel working on or near the Project.

The Contractor shall coordinate and sequence the work with other contractors working within the same project limits. The Contractor shall properly join the work with work performed by other contractors and shall perform the work in the proper sequence to that of the others. The Contractor shall arrange, place, and dispose of materials without interfering with the operations of other contractors on the same project. The Contractor shall defend, indemnify and save harmless the ARRC from any damages or claims caused by inconvenience, delay, or loss that the Contractor causes to other contractors.

<u>Daily Reports</u>: 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.

**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.

<u>Substantial Completion</u>: Substantial completion is the point at which the Work, in the opinion of the Owner as evidenced by the Owner's written notice, is sufficiently complete, in accordance with the Contract Documents, so that the Work (*or specified part*) can be safely and effectively used by the Owner, for the purposes for which it is intended, without further delays, disruption, or other impediments. The terms "Substantially Complete" and "Substantially Completed" as applied to any Work refer to Substantial Completion thereof.

Contract extensions for the reasons listed in subsection 108-1.06.3 will be reviewed on a case-by-case basis.

<u>Substantial Completion</u>: Substantial Completion shall be on or before <u>19 September 2022</u>, unless accepted and agreed upon otherwise by the Owner.

*Final Completion*: Final Completion of all work shall be on or before **24 September 2022**.

<u>Liquidated Damages</u>: 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 and in Supplemental Condition SC-06 – Train Delays Coordination & SC-10 – Failure to Complete on Time

<u>Site Transportation</u>: Contractor personnel will be provided transportation to the site via Hyrail vehicles (one-ton crew cab or similar) provided by ARRC at no cost to the Contractor. Should the Contractor elect to work a 24-hour shift (which will not impact regular train traffic), the Contractor will be required to submit to the Owner a request for additional flaggers to support their operation.

<u>Staging Areas</u>: Contractor will be able to stage equipment at the Portage Station, railroad south of the loading ramp and on-site; and to the south of the project at Tunnel Section (\*MP51). ARRC will provide any permits required for the stockpiling of material within its RoW. Aggregate materials cannot be stockpiled within the Portage Station limits or within the project limits without prior approval from ARRC.

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 Equipment Watch, 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. 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.

# **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, expect 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-builts, certificates, 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. ARRC facilities are not permitted for the room and boarding of Contractor workforces. Contractor must comply with the Alaska Department of Labor and Workforce Development requirements as noted herein.

The Contractor will need to schedule and utilize ARRC Maintenance-of-Way forces in support of its mobilization/demobilization and construction activities at the Project site. Before the pre-construction meeting, the Contractor shall provide a schedule of its needs for ARRC support activities consisting of, but not limited to; equipment mobilization, material mobilization (both to and from the site), and demobilization. Additional ARRC support must be requested at least fourteen (14) days in advance and in accordance with the CPM scheduling requirements.

ARRC does not guarantee all support requests will be fulfilled and is not liable for any additional costs borne by the Contractor due to ARRC's availability constraints.

Should the Contractor elect to utilize their own on-rail equipment for access to the site and for mobilization and demobilization activities, the equipment and operation of the equipment must comply with <u>SC-13 – Contractor Based On-Track Equipment Operation</u>

The Contractor may anticipate ARRC providing the following support (excluding ARRC provided track protection):

Note: Costs incurred by ARRC associated with delays within the Contractor's control will be withheld for payment under Item No. 2 (640.0001.6) – ARRC Support and Transportation Withholding. Such delays include, but are not limited to, the following: state of Contractor's equipment (e.g.: mechanical failures at the loading site); insufficient Contractor support and/or manpower to assist in the loading/offloading of Contractor items in a timely manner; lack of, or poor, planning; and failure to deliver equipment and/or materials on schedule. Deducts from this pay item will be calculated from the actual standby costs incurred by ARRC for equipment, labor, and lost time.

- Personnel transport between the Portage Section and the project site via ARRC operated hyrail vehicles.
   The Contractor is to assume that said transportation is to be provided using a one-ton crew cab pickup truck;
- Mobilization from ARRC's Anchorage Yard to the project site via a train consist. It is assumed that the train consist may be required on-site for up-to three (3) days

Note: A train consist is a set of railroad vehicles forming a complete train.

Mobilization and demobilization of small equipment (i.e.: not exceeding the capacity or dimensional
constraints of the HyTracker Low-bed Rail Equipment Mover provided herein under Error! Reference
source not found.) between the Portage Section and the project site. It is assumed that the Equipment
Mover may be required on-site for up-to eight (8) days;

Note: Additional mobilizations utilizing the HyTracker may, at ARRC's discretion, occur with no deduction for payment under Item No. 2 (640.0001.6) – ARRC Support and Transportation Withholding. Utilization of the HyTracker as the result of either a lack of or poor planning shall be withheld for payment under Item No. 2 (640.0001.6) – ARRC Support and Transportation Withholding, as defined herein.

- Demobilization from the project site to ARRC's Anchorage Yard via a train consist. It is assumed that the train consist may be required on-site for up-to three (3) days; and,
- Additional mobilization activities utilizing an ARRC train consist outside those indicated herein or otherwise previously approved by ARRC, shall be coordinated through ARRC's Marketing group by the Contractor at no cost to ARRC.

Note: Additional mobilizations utilizing a train consist may, at ARRC's discretion, occur with no deduction for payment under Item No. 2 (640.0001.6) – ARRC Support and Transportation Withholding. Utilization of the train consist as the result of either a lack of or poor planning shall be withheld for payment under Item No. 2 (640.0001.6) – ARRC Support and Transportation Withholding, as defined herein.

<u>Method of Measurement</u>: (Lump Sum). Compensation shall be paid for at the agreed upon lump sum price in accordance with Section 109, subsection 640-4.01, and Supplemental Condition SC-01 – Basis of Payment.

# Item No. 2 (640.0001.6) - ARRC Support and Transportation Withholding

Should any of the Contractor's or its subcontractor's actions or activities, as outlined above, cause damages and delays to ARRC personal, Maintenance Of Way work groups, or other rail or water traffic, the estimated withholding damages shall be assessed at the following rates and shall be withheld by ARRC. ARRC will not release performance bonds until withholdings assessed are paid to ARRC, and all requirements according to Subsection 103-1.05 and the General Conditions are satisfied.

ARRC may withhold an amount equal to its internal costs, assessed under Item No. 1 (640.0001.1) – Mobilization and Demobilization, from payment due to the Contractor. Costs for additional ARRC support and/or transportation will be representative of direct cost for services rendered and will be calculated on a time and materials basis in accordance with Subsection 109-1.05 with no markup. ARRC may withhold payment due the Contractors until the Contractor reimburses ARRC. These services include, but are not limited to; flagging, repair of Contractor damaged railroad infrastructure by ARRC forces, and transportation of Contractor equipment using ARRC equipment or train consists.

ARRC train traffic: \$50 per minute for each delay over five minutes, 30-minute minimum charge.

b. ARRC Flagger: \$150 per hour

c. ARRC Project Support: \$1,600 per day

d. ARRC Heavy Equipment Support: \$200 per hour

<u>Method of Measurement</u>: (Contingent Sum). Costs shall be measured on a contingent sum basis with withholding determined by the Owner in accordance with subsection 109-1.05.

## <u>Item No. 3 (203.0012.1) – Exploratory Drill Hole, 2"ø (min.)</u>

Work includes all equipment, materials, labor, and supervision required to perform all work associated with drilling an exploratory hole above the designed center location at each pile socket location shown on the Plans. The hole shall have a minimum diameter of 2-inches and is to be advanced to bedrock or a minimum of thirty five (35) feet beyond the plan tip elevation of the pile. This Work shall be subsidiary to this pay item and shall be the basis of length for the installation of each HP14x89 section at the locations indicated on the Plans.

Should the exploratory hole drilled not yield bed rock within the specified depth, notify either the Owner or its designated On-site Representative, prior to exiting the hole. Upon discovery, the Owner may then direct the Contractor to advance the exploratory hole to a depth that reaches bedrock or to the depth provided by the Engineer of Record.

If bedrock is not encountered, within the depth established structural steel piles are to be driven as outlined in Item No. 9 (505.0006.1) – Drive Structural Steel Piles, HP14x89.

If bedrock is encountered, structural steel piles are to be installed at each pile socket location as outlined in Item No. 11 (505.0010.1) – Socket Structural Steel Piles, HP14x89

Method of Measurement: (Linear Foot). Compensation will be for the sum of the depth of exploratory holes drilled, as measured from the surrounding grade to the bottom of each individual hole; accepted by the Owner and in accordance with Sections 109 and Section 203, and Supplemental Condition SC-01 – Basis of Payment.

## Item No. 4 (205.0001.1) - Excavation for Structures

This item shall consist of furnishing all materials, labor, tools and equipment necessary for excavating and backfilling associated with the construction. Excavation includes all materials whatever the character encountered in the work. May included rock, muck, or granular materials. The work shall include but not be limited to the removal and disposal of all excavated materials; the removal and disposal of piles, drains and other items encountered during the course of excavation; bailing, pumping, draining and backfilling and compacting with material to the top of subgrade as shown on the Plans or as directed by the Engineer and as specified herein.

Disposal shall consist of the hauling and removal from the site of all excavated material that is in excess or unsuitable. Except as may otherwise be specified herein, all material removed from the structure shall become the property of the Contractor and shall be disposed by them to the satisfaction of the Engineer and in accordance with any applicable Local, State, Federal or Tribal requirements. Suitable excavated materials shall not be wasted without permission of the Engineer. The Contractor shall dispose of all unsuitable and unstable materials and organic waste, in such a manner that public or private property will not be damaged or endangered, and in accordance with any applicable Local, State, Federal, or Tribal codes and regulations. The Contractor is responsible for obtaining all necessary permits for the disposal of materials as may be required by law.

The excavation will be performed in the areas as shown on the Plans and as instructed by the Engineer. Prior to placing backfill, the existing subgrade shall be benched and uniformly compacted to not less than 95% of the Standard Proctor maximum dry density, ASTM D698, determined for this material to a depth of at least one foot. All excavated material shall be disposed in accordance with any applicable Local, State or Federal requirements.

Backfilling shall proceed in accordance with the Subballast Aggregate Base Course, Grading C-1 material conforming to Alaska Department of Transportation and Public Facilities Standard Specifications subsection 703-2.03; immediately after installation of the drainage pipe.

<u>Method of Measurement</u>: (Lump Sum). Compensation shall be paid for at the agreed upon lump sum price and in accordance with Sections 109 and 205, and Supplemental Condition SC-01 – Basis of Payment.

## Item No. 5 (205.0008.1) - Porous Backfill Material

Work includes all equipment, materials, supervision, and labor required to construct the structural base course on an approved foundation, as shown in the Plans, using Contractor furnished aggregate in accordance with Section 205.

Porous Backfill materials shall conform to subsection 703-2.10.

The Contractor shall submit a Standard Proctor and gradation for the material it proposes to use that is within one (1) year of the Contract award year and from a reputable third-party testing firm, for approval by ARRC. Material is to be placed in accordance with subsection 205-3.02 in 6-inch maximum un-compacted lifts and shaped and compacted in accordance with subsection 205-3.05.1. Material placed beneath the new track panels shall be compacted to no less than 98 percent of the maximum density. The Contractor shall supply quality control testing in accordance with subsection 106-1.03 from a reputable third-party testing agency.

<u>Method of Measurement</u>: (Lump Sum). Compensation shall be paid for at the agreed upon lump sum price and in accordance with Sections 109 and 205, and Supplemental Condition SC-01 – Basis of Payment.

## Item No. 6 (208.0001.1) - Anchors, 1.25"ø

Work includes all equipment, materials, supervision, and labor required to furnish, install, and test anchors in accordance with the Plans and Supplemental Condition SC-16 – Anchor Rods.

Method of Measurement: (Linear Foot). Compensation will be paid for the anchors in place, and accepted, that are utilized in the completed structure. For anchors placed within drilled cavities, the length will be measured

from the face of the opening to the distal end of the steel bar. Anchors placed outside of drilled cavities will be measured from the connection (couple) point to the distal end of the steel bar on the river side of the retaining structure prior to tensioning. Compensation will be made in accordance with Section 109, and Supplemental Conditions SC-01 – Basis of Payment, SC-08 – Payment for Material On Hand, and <u>SC-16 – Anchor Rods</u>.

# <u>Item No. 7 (301.0002.1) – Aggregate Base Course, Grading C-1</u>

Work includes all equipment, materials, supervision, and labor required to construct an aggregate surface course on an approved foundation, as shown in the Plans using Contractor furnished aggregate in accordance with Section 301. The Contractor shall submit a Standard Proctor and gradation for the material it proposes to use that is within one (1) year of the Contract award year and from a reputable third party testing firm, for approval by ARRC. Material is to be placed in accordance with subsection 301-3.01 in 8-inch maximum un-compacted lifts and shaped and compacted in accordance with subsection 301-3.03. Material placed as a surface course shall be compacted to a density of not less than 95 percent of the maximum density. The Contractor shall supply quality control testing in accordance with subsection 106-1.03 from a reputable third party testing agency.

<u>Method of Measurement</u>: (Lump Sum). Compensation shall be paid for at the agreed upon lump sum price and in accordance with Sections 109 and 205, and Supplemental Condition SC-01 – Basis of Payment.

# Item No. 8 (504.0001.1) - Walers, Fabricate and Furnish

Work includes all equipment, materials, supervision, and labor required to fabricate and furnish the steel Walers in accordance with the Plans, Manual for Railway Engineering – Chapter 15 Steel Structures, and Section 504.

All structural steel plates and shapes shall be shop-fabricated and hot dipped galvanized. All structural steel plates and shapes shall conform to subsection 716-2.02.2 and Grade 50, unless shown otherwise in the Plans or these Specifications.

All materials shall conform as indicated on the Plans and in accordance with Section 504. Furnish four (4) signed copies of mill reports covering all steel used on the project in accordance with subsection 716-2.08. The Contractor is to supply a quality control plan that addresses all phases of the work outlined herein and on the Plans.

Walers shall be accurately assembled as shown on the Plans and in accordance with Section 504. Members shall be carefully handled so that no parts will be bent, broken or otherwise damaged. Bearing surfaces and unpainted field contact surfaces shall be thoroughly wire-brush cleaned to remove loose rust and mill scale, and any grease or shop paint on such surfaces shall be removed with proper solvents.

All welding shall be in accordance with the Structural Welding Code, AWS D1.1. Welding to be allowed only as shown on the drawings and approved shop drawings. No temporary or permanent welds, if not shown on the plans or approved shop drawings, shall be made without specific written authorization by the Owner.

#### **Welded Connections:**

All welding is to be performed in accordance with the plans, AREMA and AWS D1.1 Structural Welding Code as noted herein.

At least 30 days prior to welding, submit for approval a welding plan stamped and signed by an American Welding Society Certified Welding Inspector (CWI) per QC1 responsible for the Quality Control (QC) and consisting of the following documents:

- a. Quality control personnel qualifications including CWI number
- b. Welding Procedure Specifications (WPS) using forms in AWS D1.1, Sample Welding Forms
- c.Procedure Qualification Records (PQR) when applicable, using forms in AWS D1.1, Sample Welding Forms
- d. Welder Performance Qualifications Records (WPQR) using forms in AWS D1.1, Sample Welding Forms with documentation of current welder certification
  - e. Type and extent of NDE to be conducted, as required in Section 504

Using a CWI, perform all quality control inspection necessary to ensure the materials and workmanship meet the requirements of the Plans and contract documents. Correct all deficiencies in materials and workmanship revealed by Quality Control and Quality Assurance inspections without additional compensation. Furnish all completed quality control inspection documents to the Owner on a weekly basis.

## **Bolted Connections:**

<u>High-Strength Bolts</u>. Provide structural fasteners (*to include high strength bolts, nuts, and hardened steel washers*) meeting the requirements of subsection 716-2.03, unless noted otherwise on the Plans. High strength bolts shall be 7/8-inch diameter, unless noted otherwise on the Plans.

Determine bolt lengths by adding the values given in Table 6 – Bolt Length Determination to the total thickness of connected material. These values compensate for thickness of nut, bolt point, and washers. Add 5/32 inch to the grip length per each additional flat washer. Adjust the total length to the next longer 1/4 inch increment up to a 5 inch length and to the next longer 1/2 inch increment for lengths over 5 inches.

Fit bolted parts solidly together when assembling them and do not separate them by gaskets or other interposed compressible material. Place hardened washers under the turned element.

Bolt Diameter	Added Length
(inches)	(inches)
1/2	11/16
5/8	7/8
3/4	1
7/8	1-1/8
1	1-1/4
1-1/8	1-1/2
1-1/4	1-5/8

**Table 6 – Bolt Length Determination** 

Keep assembled joint surfaces, including those adjacent to washers, free of scale except tight mill scale. Clean off dirt, loose rust, burrs, and other defects that would prevent the parts from seating. Keep contact surfaces free of oil, paint, or lacquer.

When the outer face of the bolted parts has a slope of more than 1:20, use a smooth beveled washer in contact with the sloped surface.

Once the joint is completed, bolts shall be tightened by the Research Council on Structural Connections (RCSC)'s turn of the nut method to at least the required minimum tension values shown in Table 7 – Required Bolt Tension. Use bolts and nuts made by the same manufacturer in a connection.

Bolt Size (inches)	Required Minimum Tension (pounds)
3/4	28,400
7/8	39,250
1	51,500

**Table 7 – Required Bolt Tension** 

#### **Bolt Holes.**

Shall be either drilled or punched in accordance with subsection 504-3.01.4.

## **Galvanic Coatings:**

Materials to be galvanized shall first be prepared in accordance with The Society for Protective Coatings Surface Preparation Specification No. 8 – pickling and shall be hot-dip galvanized in accordance with AASHTO M111 or ASTM A123 to a minimum coating grade of 100 (2.3 oz./ft²). Deviations for the surface preparation are not allowed, unless otherwise approved by the Engineer. Prior to shipping, the manufacturer

shall repair any damaged coatings in accordance with subsection 716-2.07 and provide material certifications in accordance with subsections 715-2.03 and 716-2.08.

<u>Method of Measurement</u>: (Lump Sum). Compensation shall be paid for at the agreed upon lump sum price and in accordance with Sections 109 and 504, and Supplemental Conditions SC-01 – Basis of Payment and SC-08 – Payment for Material On Hand.

# Item No. 9 (505.0006.1) - Drive Structural Steel Piles, HP14x89

Work includes all equipment, materials, labor, and supervision required to drive the HP14x89 structural steel piles in accordance with the Plans and Section 505 to the minimum depth provided by the Engineer of Record.

A minimum of fifteen (15) days prior to commencing pile driving activities, the Contractor shall submit to the Owner for review a pipe pile installation plan. The plan shall address, at a minimum:

- a. A completed Pile Driving Equipment Data form for all hammer/pile configurations proposed for use on the project.
- b. Manufacturer's catalog cuts, specifications, manuals, guidelines, and technical bulletins for all pile driving equipment to be used.
- c. A description of the techniques to be used for ensuring proper placement and alignment of the piles to the Minimum Penetration and Driving Resistance as provided on the Plans. Include proposed pile section lengths, estimated pile cutoff lengths, number of splices expected for each pile.
- d. Alternate methods of pile installation in the event obstructions are encountered.

The Owner's approval of the pile driving plan will not relieve the Contractor of responsibility for:

- a. Removing and replacing piles damaged during pile driving operations.
- b. Obtaining the Driving Resistance specified in the Contract.
- c. Meeting Minimum Penetration specified in the Contract.

Do not mobilize pile driving equipment to the site without an approved pile driving plan.

Installation and removal of any false work, temporary shoring, bracing, or Contractor fabricated items necessary to drive the new piles shall be subsidiary to this work. The piles are to be driven using a fixed template, firmly secured to a substantial support, unless the Contractor can drive the piles within the tolerances noted in the Contract Documents with confidence.

Notify the Owner a minimum of twenty-four (24) hours in advance of any pile driving activities or extraction, as the Owner, or its representative, are required to be on-site for the duration of said activities. In advance of the Owner or its representative arriving on-site for driving activities, the Contractor is to mark the pile with one-foot increments that are easily visible, and with readable numbers. Final pile depths shall be marked on every pile in accordance with the plans.

The Contractor shall not cut the pile off prior to receiving approval from the Owner if the pile is short of the design the tip elevation. The Owner may accept the pile at a lesser tip elevation when, in the judgement of the Owner and or Engineer of Record, that the adequacy and safety of the resulting structure will not be jeopardized by its acceptance.

Placement and alignment shall meet the requirements of the Plans and subsection 505-3.03.1. Piles not meeting tolerance requirements or out of line as to impair usefulness, or piles that are damaged in driving as to impair structural capacity, shall be pulled and re-driven at no additional cost to the Owner.

Subsidiary to this work shall be all costs associated with, cutting, splicing, galvanic coating repair, and welding in accordance with the Plans and Contract Documents.

The Contractor will be responsible for welding each splice in accordance with the Plans. All welding is to be performed in accordance with the plans, AREMA and AWS D1.1 Structural Welding Code as noted herein. All

galvanic coatings shall be repaired in accordance with ASTM A780 or AWS C2.23, and in accordance with the Plans.

Should the Contractor elect to utilize equipment that is of insufficient size, and its equipment does not drive the subject pile to, or beyond, the designed tip elevation; the Contractor will incur all costs associated with the both extraction and installation of a new pile.

Any and all precautions shall be utilized by the Contractor to ensure that piles are neither misdriven nor damaged by Contractor means and methods. The method used for driving shall not subject the pile to excessive or undue abuse that results in the deformation of the pile. Manipulation of the pile to force it into its proper position via jacking or loading is acceptable if, in the opinion of the Owner, that the structure is not compromised or the individual pile does not deviate more than 1/4-inch per foot from vertical. Manipulation of the pile(s) which creates a deviation, deemed excessive by the Owner or its representative, or beyond the previously mentioned tolerances, is unacceptable and will not be permitted. Any pile damaged by reason of internal/external defect, damaged by improper driving, or driven out of its proper locations, will be corrected by the Contractor at no cost to the Owner. At any time during the driving activity the pile top becomes damaged in such a manner that the Owner or its representative believe it poses a risk to the satisfactory driving of the pile, driving shall be discontinued. Once the driving apparatus is removed from the pile, the pile shall be cut perpendicular to its axis and then driving activities can continue.

The Contractor shall perform periodic inspections of both initial fit-up and welding of all structural components relevant to the Work. The Contractor will provide inspection and testing services for welds in accordance with the Contract Documents.

<u>Method of Measurement</u>: (Each). Compensation will be paid for based on the accepted quantity installed inplace and shall be paid for at the agreed upon unit price and in accordance with Section 109, Section 505, and Supplemental Condition SC-01 – Basis of Payment.

## <u>Item No. 10 (505.0009.1) – Furnish and Drive Structural Steel Sheet Piles, PS31 Sheets, Galvanized</u>

Work includes all equipment, materials, supervision, and labor required to furnish, drive, and install structural steel sheet piles in accordance with the Plans, Section 505, Section 715, and Section 716. All sections of pile shall be full length as required to achieve required embedment as indicated in the plans, with additional length allowances for clamp and installation damage.

Provide structural steel PS31 sheet piles no less than 30-feet (nominal) for the lengths and quantities identified in the Plans, meeting ASTM A572, Gr. 50 requirements. Sheet pile materials shall first be prepared in accordance with The Society for Protective Coatings Surface Preparation Specification No. 8 – pickling and shall be hot-dip galvanized in accordance with AASHTO M111 or ASTM A123 to a minimum coating grade of 100 (2.3 oz./ft²). Deviations for the surface preparation are not allowed, unless otherwise approved by the Engineer. Prior to shipping, the manufacturer shall repair any damaged coatings in accordance with subsection 716-2.07 and provide material certifications in accordance with subsections 715-2.03 and 716-2.08.

No less than fifteen (15) days prior to the anticipated start of pile driving, submit for approval the details of each proposed pile driving system. Include in the pile driving plan:

- a. A completed Pile Driving Equipment Data form for all hammer/pile configurations proposed for use on the project.
- b. Manufacturer's catalog cuts, specifications, manuals, guidelines, and technical bulletins for all pile driving equipment to be used.
- c. A description of the techniques to be used for ensuring proper placement and alignment of the piles to the Minimum Penetration and Driving Resistance as provided on the Plans. Include proposed pile section lengths, estimated pile cutoff lengths, number of splices expected for each pile.
- d. Alternate methods of pile installation in the event obstructions are encountered.

The Owner's approval of the pile driving plan will not relieve the Contractor of responsibility for:

- a. Removing and replacing piles damaged during pile driving operations.
- b. Meeting Minimum Penetration specified in the Contract.

Do not mobilize pile driving equipment to the site without an approved pile driving plan, or as directed the Engineer. Driving of piles shall be in accordance with the Plans and subsection 505-3.03. Drive full length sheet piles to their plan cutoff elevation.

Provide a weep hole layout will consisting of 2-inch diameter holes, centered on the PS31 web, spaced 1-foot on center and run it up the full length of pile or as directed by the Owner.—This Work shall be subsidiary to this Pay Item.

Also subsidiary to this work shall be all costs associated with, cutting, galvanic coating repair, and welding in accordance with the Plans and Contract Documents.

<u>Method of Measurement</u>: (Square Foot). Compensation will be paid for based on the accepted quantity of furnished and driven sheet piles remaining in place in the permanent structure as called for on the Plans, and as measured in their final position, at the agreed upon unit price and in accordance with Section 109, Section 505, and Supplemental Conditions SC-01 – Basis of Payment and SC-08 – Payment for Material On Hand.

## Item No. 11 (505.0010.1) - Socket Structural Steel Piles, HP14x89

Work includes all equipment, materials, labor, and supervision required to perform all work associated with the pile sockets necessary to install structural pipe piles in the locations shown on the Plans. Pile sockets shall be no less than 24-inches in diameter.

This work shall include, but not be limited to, the excavation and disposal of all material encountered, both wet and dry, by machine drilling or by manual dug methods to the elevation and diameter as shown in the Plans or as determined by the Engineer; the furnishing and installation of steel casings and liners (permanent or temporary), and the removal or grouting in place of same; the pumping, bailing, removal and disposal of water and mud from the excavations; the removing of any abandoned utilities, wooden pilings, or other obstructions encountered; assisting the Engineer in arriving at the final elevations; the furnishing and placing of concrete, reinforcement and attachment dowel rods in the shaft excavation; and all other related and collateral work necessary to construct the pile sockets as shown on the Plans or as directed by the Engineer and as specified herein.

Concrete shall be furnished, placed, cured, and tested in accordance with Supplemental Condition SC-17 – Class A Concrete and shall be subsidiary to this Work.

Also subsidiary to this work shall be all costs associated with, cutting, splicing, galvanic coating repair, and welding in accordance with the Plans and Contract Documents.

<u>Method of Measurement</u>: (Each). Compensation shall be paid for at the agreed upon unit price and in accordance with Sections 109, 501, and 505; and Supplemental Conditions SC-01 – Basis of Payment and SC-17 – Class A Concrete.

# <u>Item No. 12 (641.0001.1) – Stormwater Maintenance and Management</u>

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 (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 Right-of-Way, 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) required to meet the specifications of the SPCC plan.

<u>Method of Measurement</u>: (Lump Sum). Compensation shall be paid for at the agreed upon lump sum price and in accordance with Sections 109 and 641, subsection 109-1.02.2, and Supplemental Condition SC-01 – Basis of Payment.

## Item No. 13 (642.0001.1) - Construction Surveying

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.

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.

The Contractor will be provided with ARRC's collected survey data of the existing rock face to compute volumes based on post blast surfaces and for final survey for material quantity payment. Alternately, the Contractor may elect to acquire their own pre-blast survey of the project limits for use in the quantification of materials for payment purposes. Prior to performing any ground disturbing activities, the Contractor shall submit their pre-blast survey data to ARRC for review and approval.

Method of Measurement: (Lump Sum). Compensation shall be paid for at the agreed upon lump sum price and in accordance with Sections 109 and 642, and Supplemental Condition SC-01 – Basis of Payment.

## Item No. 14 (646.0001.1) - CPM Scheduling

Work includes all equipment, materials, supervision, and labor required to provide and maintain a Critical Path Method (CPM) progress schedule for the project in accordance with Section 646.

An initial CPM schedule is to be provided to the Owner a no less than five (5) business days prior to the preconstruction meeting and updated schedules are to be provided as indicated herein and with each application for payment.

The construction of this project shall be planned and recorded by the Contractor using the Critical Path Method (CPM) of scheduling. The CPM Schedule (CPMS) shall be used for coordination and monitoring of all Work under the Contract including all activity of subcontractors, manufacturers, suppliers, utility companies, other parties, and Owner review activities of the CPMS and associated submittals.

Within the aforementioned time prior to the preconstruction conference, the Contractor shall submit for the Owner's review, a 60- to 120-day Initial CPMS meeting the requirements set forth herein. The Owner will review for conformance to the Contract, reasonable means and methods, completeness, adequate level of detail, sequencing logic, reasonable activity durations, critical path, float, constraints, sufficient time for submittal review, adequate time for delivery of Owner-supplied materials and equipment, calendar details, reasonable resource-loading, and any errors. The construction time for the entire project shall not exceed the specified Contract Time. Following the Owner's review, if revisions are required, the Contractor shall do so promptly.

Following the Owner's review of the Initial CPMS, the Contractor shall submit for the Owner's review, a Baseline CPMS. The Baseline CPMS must be finalized within 30 days of the Notice to Proceed.

CPM scheduling methodology requires a definitive estimate of the duration of the activities and ultimately the entire project schedule. Four essential components shall be shown on the CPMS: activities with descriptions, activity durations, logical relationships linking together activities, and constraints. The CPMS shall be presented as a Gantt chart and shall include no less than 15 descriptive activities. No activity duration shall be longer than 15 working days without the Owner's approval. The CPMS shall show the sequence and interdependence of all activities required for complete performance of all items of Work under this Contract.

Unless otherwise waived by the Owner, the CPMS shall be resource-loaded with labor, equipment, and materials. Labor shall show workdays per week, holidays, shifts per day, men per shift, and hours per shift. Equipment shall show the make and model and number of units of each type of equipment.

Submittal activities shall be incorporated into the CPMS which include preparation time, Owner review and approval time, resubmittal time, fabrication and order time, shipping time, and delivery times. Alternatively, the Contractor may elect to create a separate CPMS for tracking submittals, which shall be subject to the same

requirements herein. Submittals shall be grouped by specification within the CPMS, or other Owner-approved method.

A schedule revision involves changing schedule activity durations, logical sequences, or schedule settings to reflect changes to the project plan, as presented in the baseline schedule or previously accepted schedule revisions. The following are some of the major reasons for logic revisions:

- The Contractor's work plan has changed (changes can be major or minor).
- The Contractor wants to adjust durations of remaining activities to be more in line with actual durations of similar completed activities.
- The Contractor is behind schedule and has to prepare a recovery plan.
- Change orders and the resultant changes in the plan to perform the work need to be incorporated into the schedule.

The Contractor has the right to change its plan for execution of the Contract during the course of construction. However, changes to the Contractor's plan potentially affect other parties. The Contractor shall notify the Owner as soon as practicable for any CPMS revisions.

The CPMS shall be updated every two (2) weeks during construction. Concurrent with the schedule update, submit a work plan detailing the proposed operations for the forthcoming two (2) weeks which includes: work activities, manpower involved by trade, work hours, equipment involved, and location of the work to be performed.

The CPMS shall be submitted in a Microsoft Project or Primavera P6 format. For each CPMS submittal, both the native file format and a PDF shall be provided to the Owner.

The Contractor shall incorporate any approved Change Orders into the CPMS.

The Contractor may be given access to the site and allowed to commence mobilization activities on, or around **20 July 2022**, assuming the avalanche and/or icefall conditions throughout, and up-to, the project corridor allow for the safe passage on-track equipment and vehicles. Inclusive to this would only be the delivery of equipment via the use of the Hytracker Low-bed Rail Equipment Mover between scheduled train traffic. If corridor conditions permit, the Contractor may be able to access the site earlier than noted above. Mobilization efforts prior to entering ARRC's Passenger Train Service, as defined herein, will require close coordination with ARRC's Project Manager and its Maintenance-of-Way staff. The Contractor will be responsible for coordination of work activities to prevent special train moves and rail traffic after this date.

#### **Track Outages:**

The prospective Contractor will be provided 72 hours' notice before ARRC requires the track to be put back in service should it be required to be removed from service. Track outages are to be scheduled in accordance with the General Conditions included herein.

The longest period that a Contractor can eliminate the possibility of rail service through the project limits is based on train traffic, other ARRC work activities, avalanche and slide zone conditions, and the Contractor's needs for the ARRC on track support. Daytime outages during passenger service is not permitted. Outage requests beyond nighttime hours is permitted following passenger service season.

Non-compliance with CPMS update requirements is considered unsatisfactory performance and may result in withholding progress payments according to subsection 109-1.06.

#### Fuel:

Contractor to provide owner a detailed schedule and plan on fuel storage, estimated fuel volume usage, onsite fuel storage capacity, and expected operational duration between resupply. The Contractor is to manage their fuel and coordinate with the Owner for refueling where required. Any fuel transport tanks, slips or containers will be Contractor furnished.

## **Construction Phasing Plan:**

Submit a Construction Phasing Plan for approval no less than five (5) working days prior to the preconstruction 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. Work shall be completed in phases that include, at a minimum, the following;

-Exploratory Drilling, Installation of Piles, Installation of sheeting, Installation of walers and anchors, installing backfill, tensioning anchors

The phasing of construction activities detailed above, and herein, is provided as a guideline and is not expected to be followed in the order above. The Construction Phasing Plan shall however address, at a minimum, the activities outlined above and herein. Each phase shall also address the protection, removal, repair, and/or reinstallation of track facilities throughout the duration of the phase(s).

Note that additional phasing plans shall be required to be submitted with each Contractor requested track outage. The Contractor may elect to use their CPM schedule for their Construction Phasing Plan if the CPM's quality and level of detail is sufficient and acceptable to the Owner.

Method of Measurement: (Lump Sum). Compensation shall be paid for at the agreed upon lump sum price and in accordance with Sections 109 and 646, and Supplemental Condition SC-01 – Basis of Payment

#### Item No. 15 (647.0001.1) - As-Built Record Drawings and Specifications

Work includes all equipment, materials, supervision, and labor required to provide project administration, management, record keeping, and work relating to maintaining project record documents for project closeout.

Submit all project record documents prior to application for final payment. Complete payment will not be made to the Contractor unless accurate and complete closeout submittals are received as specified.

Record documents shall be maintained in accordance with this section of the Contract.

Contractor shall maintain one record copy of:

- a. Contract drawings: Legibly mark in ink or indelible pencil, or a record of actual construction including the following information; location of internal utilities and appurtenances concealed in construction referenced to visible and accessible feature of structure, field changes of dimensions and details, changes made by change order or Owner's instructions, and details not on original contract drawings.
- b. Specifications: Mark up each section to record Manufacturer, model, catalog number, and supplier of each product and item of equipment actually installed as well as other matters not originally specified.
- c. Addenda: Provide markups to all addenda, similar to other Contract drawings and specifications.
- d. Change orders and other modifications to the Contract.
- e. Reviewed shop drawings, product data and samples: After review, legibly annotate the shop drawings, product data, and samples to clearly specify what is included in the work.
- f. Field test records.
- g. Inspection certificates.
- h. Manufacturer's certificates.

<u>Method of Measurement</u>. Compensation shall be paid for at the agreed upon lump sum price and in accordance with Sections 109 and 647, and Supplemental Conditions <u>SC-01 – Basis of Payment</u>.

# **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** 

# <u>APPENDIX I</u> – 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, <u>Invitation to Bid 22-43-209968</u> the Undersigned proposes to furnish and deliver all the materials and do all the work and labor required in the construction of the <u>ARRC MP52.2 Retaining Wall Permanent Repairs</u> , located at or near <u>Portage</u> , <u>Alaska</u> 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 <b>Ten (10 Calendar Days</b> , 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 <b>Ten (10) Calendar Days</b> 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 Percen (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/o specifications (give number and date of each).
Addenda No. Date Issued Addenda No. Date Issued Addenda No. Date Issued

# **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*

ITB 22-43-209968 ARRC MP52.2 Retaining Wall Permanent Repairs			DATE BOND E	XECU	ΓED					
PRINCIPAL (Legal name and business address)			TYPE OF ORG	ANIZA	TION					
				☐ INDIVIDUAL ☐ JOINT VENTUR	RE		NERSHIP PORATION			
						10 STATE OF IN	CORPO	RATION		
s	URETY	(IES) (Name ar	nd business a	ddress)						
A. B.			C.							
P	ENAL S	SUM OF BOND	I			DATE OF BID				
р	enal sum	of the amount s	stated above, fo	amed, are held and firmly boun or the payment of which sum wi nd severally, by this instrumen	II be ma					е
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.					th					
If the Principal's bid is accepted and he/she is offered the proposed contract fo contract, then the obligation to ARRC created by this bond shall be in full force			II force	and effect.	ncipal f	ails to er	nter into the	е		
If the Principal enters into the contract, then the foregoing obligation is null and void.										
Р	RINCIPA	L		_	1			1		
s	ignature(	s) 1.		2.	3.			Corpora Seal		
Name(s) & 1. 2. Titles [Typed]		3.								
С	ORPORA <sup>.</sup>	TE SURETY(IES)								
Name of Corporation  S U R Signature(s)  1. 2.		State	ate of Incorporation Liability Limit \$							
		Signature(s)	1.		2.		•		Corporate Seal	)
T Y Name(s) & 1. 2. Titles [Typed]		2.					_			

CORPORATE SURETY(IES)					
S U R	Name of Corporation		State of Incorporation	Liability Limit	
E T Y	Signature(s)	1.	2.		Corporate Seal
В	Name(s) & Titles [Typed]	1.	2.		
CORPORATE SURETY(IES)					
S U R	Name of Corporation		State of Incorporation	Liability Limit \$	
E T Y	Signature(s)	1.	2.		Corporate Seal
С	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

		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.	Prop	oser's federal taxpayer identification number:
0.		

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 con	tract address:			
	Name:	Title:			
	Address:				
	Telephone Number: ()				
8.	How long has the Proposer been in busine	ess?			
9.	Has Proposer been in business under anot	her name? If so, identify	name and dates used.		
10.	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. State	Number of employees: of Alaska.	including	_ employees in the		
	PART III - CONTRA	CTING 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.	•	arred, disquali YES □	fied, or otherwise declared ineligible to bid? NO □
	B.	Failed to complete a c	ontract for a po	ublic or private entity? NO □
	C.	Been denied a low-bid		ite of being the low bidder? NO □
	D.		ated for any rea YES □	ason, including default? NO □
contrac	E.	Had liquidated damag	es assessed a	gainst it during or after completion of a
Contrac	J. :		YES 🗆	NO 🗆
	F.	Been a defaulter, as p	rincipal, surety YES □	or otherwise? NO □
agency	G. / that yo	our company was not a	•	ntract based upon a finding by a public ontractor? NO □
surety default	•			enforcement of any of its rights under a efault or in lieu of declaring your company in
3013.3	-		YES 🗆	NO 🗆
	l.	•	nance or paym YES □	ent bond by a surety company? NO □
or fede	J. eral prev	Been required to pay l		nd/or penalties for failure to comply with state
	'	3 3	YES 🗆	NO 🗆
solicita	s, and o tion? If	other resources necess no, on a separate shee supply the goods or ser	sary to supply t et of paper des	ial, organizational, technical, equipment, he goods or services sought by this cribe how you intend to obtain the resources y this solicitation.  NO □
5. obligat				nted commitments and/or contractual 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		IO 🗆	
PART	IV-CIVIL A	CTIONS	
If "Yes" to Parts IV or V, provide details summary of cause(s) of action; indicate were plaintiffs or defendants; define ch jurisdiction, etc. In the case of tax liens with the tax authorities. Please submit Complete details are required!	e if Propos arges exp , please in	er, its principals, officers or partners icitly, by what authority, court or dicate whether the liens were resolved	
	investigation?	has Proposer, any of its principals, on of any alleged violation of a civil antitrust	
	partners be ovided to a	at time is, or during the past five years has en a plaintiff or defendant in any lawsuit or public agency? IO □	
3. <u>Bankruptcy</u> . During the past five y reorganization under the bankruptcy laws' YES	?	ne Proposer filed for bankruptcy or	
4. <u>Judgments, Liens And Claims</u> . Do subject of a judgment, lien or claim of \$25 YES	,000 or moi	ast five years, has the Proposer been the re by a subcontractor or supplier? IO □	
5. <u>Tax Liens</u> . During the past five yes federal, state or any other tax authority?	ars, has the	Proposer been the subject of a tax lien by	
YES		IO 🗆	
PART V-COMPLIANCE WIT	TH LAWS A	AND OTHER REGULATIONS	
1. <u>Criminal</u> : In the past five years has partners been convicted or currently charge	•	ser, any of its principals, officers, or y of the following:	
A. Fraud in connection with obcontract, agreement or transaction?	otaining, att	empting to obtain, or performing a public	
YES		IO 🗆	
B. Federal or state antitrust st	atutes, incl	uding price fixing collusion and bid rigging?	

YES \( \text{NO} \( \text{NO} \)

C. information, re		• • •	y, making false statements, submitting false se claims to any public agency? NO □
D.	Misrepresenting mino fits subcontractors?	rity or disadvar	ntaged business entity status with regard to
	The case made of	YES 🗆	NO 🗆
E. similar laws o	Non-compliance with f any other state?	the prevailing v	vage requirements of the State of Alaska or
		YES □	NO 🗆
F. respect to a g	Violation of any law, r povernment funded prod		reement relating to a conflict of interest with
_		YES □	NO 🗆
G.	Falsification, concealr	ment, withholdii	ng and/or destruction of records relating to a
		YES □	NO 🗆
H.	Violation of a statutor ate agreement or transa		provision or requirement applicable to a
	3	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?			
With the Free		YES □	NO 🗆
2. Regul		ne past five yea	ars, has Proposer or any of its principals,
	violations, failure to pa	y correct wage	r law or regulation, including, but not limited s, failure to pay into a trust account, failure nemployment insurance tax delinquencies? NO □
B. violation"?	Been cited and asses	sed penalties f	or an OSHA or Alaska/OSHA "serious
		YES □	NO 🗆
C. Been cited for a violation of federal, state or local environmental laws or regulations?		state or local environmental laws or	
g		YES □	NO 🗆
D. licensing requ		Alaska corpora	ite registration, federal, state or local
		VES 🗆	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 Alas	ska?

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 <u>may be requested.</u>

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.

## PART VII -VERIFICATION AND ACKNOWLEDGMENT

The undersigned recognizes that the information submitted in the questionnaire herein is for the express purpose of inducing ARRC to award a contract, or to allow Proposer to participate in ARRC projects as contractor, subcontractor, vendor, supplier, or consultant. The undersigned has read and understands the instructions for completing this Questionnaire.

STATE OF	_				
COUNTY OF	_				
I, (printed name), being first of state that I am the (title), proposer. I certify that I have read and understood the questions contained in the Questionnaire, and that to the best of my knowledge and belief all information herein and submitted concurrently or in supplemental documents with this Question is complete, current, and true. I further acknowledge that any false, defraudulent statements on the Questionnaire will result in denial or terminal contract.					
I authorize ARRC to contact any entity named resource, for the purpose of verifying information deemed relevant by a	tion provided in the Questionnaire or to				
Signature of Certifying Individual	Date				
Subscribed and sworn to before me this 20	, day of,				
Signature of Notary Notary Public in and for the State of					
My Commission Expires:					

# **NOTICE TO PROPOSERS**

A material false statement, omission or fraudulent inducement made in connection with this Questionnaire is sufficient cause for denial of a contract award or revocation of a prior contract award, thereby precluding the Proposer from doing business with, or performing work for ARRC, either as a vendor, prime contractor, subcontractor, consultant or subconsultant for a period of five years. In addition, such false submission may subject the person and/or entity making the false statement to criminal charges under applicable state and/or federal 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: **BUSINESS LICENSE** TOTAL DOLLAR FIRM NAME, SCOPE OF WORK TO NUMBER AND ADDRESS. AMOUNT OF BE PERFORMED **CONTRACTOR'S** WORK **REGISTRATION NUMBER** 

[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 ALA	SKA RAILROAD CORPORATION	N, herein called ARRC, acting by and through its
Contracting Officer, and		
A Corporation, incorporated under t	he laws of the State of Alaska, it	ts successors and assigns, hereinafter called the
Contractor, is effective the date of the	e signature of the Contracting Offic	er on this document.
Billing Information: Invoices shall	be submitted to Accounts Payab	le, Alaska Railroad Corporation, PO Box 107500,
Anchorage, AK 99510-7500. Please	reference your contract number or	all invoices and correspondence.
WITNESSETH: That the Contractor,	for and in consideration of the pa	yment or payments herein specified and agreed to
by ARRC, hereby covenants and agree	ees to furnish and deliver all the ma	terials and to do and perform all the work and labor
required in the construction of the fol	lowing project: ITB 22-43-20996	8 ARRC MP52.2 Retaining Wall Permanent
<b>Repairs</b> at the prices bid by the Cor	tractor for the respective estimate	d quantities aggregating approximately the sum of:
Bid amount dollars an	d /cents (\$00) for the	e Base Bid and such other items as are mentioned
in the original Bid, which Bid and p	rices named, together with the C	ontract Documents (Invitation to Bid, Addenda &
Contract) and Contractors Bid are ma	ade a part of this Contract and acc	cepted 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 sh	all 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	y work or labor done, unless the m	aterials, work, or labor are required by the Contract
or on written order furnished by ARF	RC. Any such work or materials v	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 cla	im for compensation for work or m	aterials done or furnished without any such written
order.		
The Contractor further covenants and	d agrees that all materials shall be	furnished and delivered and all labor shall be done
and performed, in every respect, to the	ne satisfaction of ARRC by <b>Septer</b>	mber 19, 2022.

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 Genera
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											
									_ as Princi	pal,	
and								· · · · · · · · · · · · · · · · · · ·			
of:									_as Surety	,	
-	bound							Dollars (\$		), good	and lawful
	d ourselve							truly to be paid and assigns, joi			
								with said Alas			
	be done a ermanen			erms of s	aid cor	ntract. AR	RC Project	: ITB 22-43-20	)9968 ARI	RC MP52.2	! Retaining
require upon o under t become	ments of la r for the w he original e null and	aw and poork und contractive void; otherwoods	pay, as ter said of the said o	hey beco contract, ubcontrac they shal ve hereu	ome du whethe ct, or a I remai nto set	e, all just cer said labery and all continuity and all continuity for our hands	laims for labor be performed authorized and effect and seals the	nis day o	nd materials naterials an s thereto, th	s and suppli d supplies l nen these pl	es furnished be furnished resents shall
			(	Contact N	lame: _						
										<del></del>	
Contac	t Name: _										
							_				
							_				
The off	ered bond	has bee	en check	ed for ac	dequac	y under the	e applicable s	statutes and reg	gulations:		
Alaska	Railroad C	Corporat	ion [Aut	norized F			Date on Next Pag	ge)			

# **INSTRUCTIONS**

- 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

Form 395-0126

# **ALASKA RAILROAD CORPORATION – PERFORMANCE BOND**

## **KNOW ALL PERSONS BY THESE PRESENTS:**

That	penal sum of _), good and lawful Railroad Corporation,
of:as Surety, firmly bound and held unto the Alaska Railroad Corporation in the	_), good and lawful Railroad Corporation,
firmly bound and held unto the Alaska Railroad Corporation in the	_), good and lawful Railroad Corporation,
	_), good and lawful Railroad Corporation,
υσιαίο (ψ	
money of the United States of America for the payment whereof, well and truly to be paid to the Alaska I we bind ourselves, our heirs, successors, executors, administrators, and assigns, jointly and seve presents.	<i>y</i> , <i>y</i>
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 22-43-2099	68 ARRC MP52.2
Retaining Wall Permanent Repairs	
project, then these presents shall become null and void; otherwise they shall remain in full force and e  IN WITNESS WHEREOF, We have hereunto set our hands and seals this day of  Principal:	, 20
Address:	
Telephone Number:	,
Contact Name:	
By:	_
By:	
Surety:	
Address:	
Contact Name:	
By:	
Ву:	
The offered bond has been checked for adequacy under the applicable statutes and regulations:	
Alaska Railroad Corporation [Authorized Representative] Dat	- ie

(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 (<u>e.g.</u>, 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

<u>COST SCHEDULE</u>: 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.

BASE BID ITEMS							
Item No.	Item Description	Unit	Quantity <sup>1</sup>	Unit Bid Price	Amount Bid		
1	Mobilization and Demobilization (640.0001.1)	Lump Sum	1				
2	ARRC Support and Transportation Withholding (640.0006.1)	Contingent Sum	All Req'd				
3	Exploratory Drill Hole, 2"ø (203.0012.1)	Linear Foot	475				
4	Structure Excavation (205.0001.01)	Lump Sum	1				
5	Porous Backfill (205.0008.1)	Lump Sum	1				
6	Anchors, 1.25"ø (208.0001.1)	Linear Foot	1,134				
7	Aggregate Base Course, Grading C-1 (301.0002.1)	Lump Sum	1				
8	Walers, Fabricate and Furnish (504.0001.1)	Lump Sum	1				
9	Drive Structural Steel Piles, HP14x89 (505.0006.1)	Each	19				
10	Furnish and Drive Structural Steel Sheet Piles, PS-31 Sheets, Galvanized (505.0009.1)	Square Foot	1,401				
11	Socket Structural Steel Piles, HP14x89 (505.0010.1)	Linear Foot (max)	95 (270)				

BASE BID ITEMS (Continued)								
Item No.	Item Description	Unit	Quantity 1	Unit Bid Price	Amount Bid			
12	Stormwater Maintenance and Management (641.0001.1)	Lump Sum	1					
13	Construction Surveying (642.0001.1)	Lump Sum	1					
14	CPM Scheduling (646.0001.1)	Lump Sum	1					
15	As-Built Record Drawings and Specifications (647.0001.1)	Lump Sum	1					
Total Ba	ase Bid :							
NON-CC States, the directly of	entities are approximate. Contract Contract Documents to verify OLLUSION AFFIDAVIT: The Unhat neither he/she nor the firm or indirectly, entered into any ago of free competitive bidding in contracts.	the quantities indersigned declarsion, cassociation, casso	n the Cost S ares, under p or corporation cipated in an	chedule. enalty of perjury un of which he/she	nder the laws of the United is a member, has, either			
	ersigned has read the foregoing ignature below:	g proposal and	hereby agree	es to the condition	s stated therein by affixing			
BIDDER	S NAME AND ADDRESS							
COMPAI	COMPANY NAME SIGNATURE BY AND FOR THE BIDDER							
COMPAI	COMPANY MAILING ADDRESS PRINTED NAME OF ABOVE BIDDER							
CITY, ST	TATE ZIP CODE	DATE OF	BID					
CONTAC	CT PHONE NUMBER	CONTAC	Γ E-MAIL					