STATE OF ALASKA

DEPARTMENT OF NATURAL RESOURCES

INVITATION TO BID (ITB)
ITB No. 10-021-20

DATE OF ISSUE: July 13, 2020

TITLE:
Vallenar Bay Road Improvements
(DOF Project No. 34050-5)

Important Notice: If you receive this solicitation from the State's Online Public Notice website you must register with the DNR Procurement Section to receive subsequent amendments. Registration must be in writing and may be made via email to dnr.ssd.procurement@alaska.gov . Failure to register with the DNR Procurement Section may result in rejection of your offer.

ADA: The State of Alaska complies with Title II of the Americans with Disabilities Act of 1990. Individuals with disabilities who may need auxiliary aids, services, and/or special modifications to submit a bid should contact the DNR Procurement Section via email to dnr.ssd.procurement@alaska.gov or telephone at 907-269-8666 not later than 10 calendar days prior to the bid closing date to make necessary arrangements.

Procurement Officer: Chris Brooks
Phone Number: (907)269-8666
Email: christopher.brooks@alaska.gov

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(State Funded)

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

INVITATION FOR BIDS

for Construction Contract

Date **July 13, 2020**

VALLENAR BAY ROAD IMPROVEMENTS – ITB No. 10-021-20

Project Name and Number

Location of Project: **Gravina Island near Ketchikan, Alaska**

Contracting Officer: Christopher Brooks, DNR Procurement Officer

Issuing Office: Division of Support Services

State Funded ☒ Federal Aid ☐

Description of Work:

Improve the drivability of the Vallenar Bay Road at discrete areas identified by the Department. The work primarily consists of vertical and horizontal alignment modifications to a 14 foot wide shot rock forest road constructed in 2017.

The Engineer's Estimate is:

- ☐ Less than $100,000
- ☐ Between $100,000 and $250,000
- ☒ Between $250,000 and $500,000
- ☐ Between $500,000 and $1,000,000
- ☐ Between $1,000,000 and $2,500,000
- ☐ Between $2,500,000 and $5,000,000
- ☐ Greater than $5,000,000

All work shall be completed in NA Calendar Days, or by **November 15, 2020**.
Interim Completion dates, if applicable, will be shown in the Special Provisions.

Bidders are invited to submit sealed bids, in single copy, for furnishing all labor, equipment, and materials and for performing all work for the project described above. Bids will be opened publicly at 2:00 PM local time, at 550 W. 7th Ave., Suite 1330; Anchorage, AK 99501 on the 4th of August 2020.

SUBMISSION OF BIDS

ALL BIDS INCLUDING ANY AMENDMENTS OR WITHDRAWALS MUST BE RECEIVED PRIOR TO BID OPENING. BIDS SHALL BE SUBMITTED ON THE FORMS FURNISHED AND MUST BE MARKED AS FOLLOWS:

Bid for Project: **VALLENAR BAY ROAD IMPROVEMENTS** **ITB No. 10-021-20**	**ATTN:** **Procurement Officer** **Dept. Natural Resources** **550 W. 7th Ave., Suite 1330** **Anchorage AK 99501-3564** **Phone: (907) 269-8666 / Email: christopher.brooks@alaska.gov**

Bids, amendments or withdrawals transmitted by mail must be received at the above specified address no later than 30 minutes prior to the scheduled time of bid opening. Hand-delivered bids, amendments or withdrawals must be received at the above specified address prior to the scheduled time of bid opening. Faxed bid amendments must be addressed to the above specific address. Fax number: (907) 269-8909.

A bid guaranty is required with each bid in the amount of 5% of the amount bid. (Alternate bid items as well as supplemental bid items appearing on the bid schedule shall be included as part of the total amount bid when determining the amount of bid guaranty required for the project.)

The Department hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this Invitation, Disadvantaged Business Enterprises (DBEs) will be afforded full opportunity to submit bids and will not be discriminated against on the grounds of race, color, national origin, or sex in consideration for an award.

NOTICE TO BIDDERS

Bidders are hereby notified that data to assist in preparing bids is available as follows:

SEE SPECIAL NOTICE TO BIDDERS

Plans and Specifications may be downloaded from: https://aws.state.ak.us/OnlinePublicNotices/default.aspx
For additional information contact:

Procurement Officer
Dept. of Natural Resources
550 W. 7th Avenue, Suite 1330
Anchorage, AK 99501-3564
Phone (907) 269-8666

All questions relating to design features, constructability, quantities, or other technical aspects of the project should be directed to the following:

Greg Staunton
Project Manager
Fax: (907) 225-3070 Phone: (907) 225-3070 Email: greg.staunton@alaska.gov

All questions concerning bidding procedures should be directed to:

Chris Brooks, MAM, MBA
Procurement Officer
Dept. of Natural Resources
550 West 7th Avenue, Suite 1330
Anchorage, AK 99501-3564
Phone: (907) 269-8666 / Email: christopher.brooks@alaska.gov

Any questions about bidding procedures, site conditions, or contract requirements must be submitted in writing to the Procurement Officer designated on the Invitation to Bid. Questions must be submitted in sufficient time to get a reply before submitting a bid. No oral responses or other oral statements are binding on the department. Any response to a material question shall be issued by addendum sent to all bidders. Questions submitted within two business days of bid opening may or may not be considered at the department's discretion. If a significant question is asked just prior to bid opening, the department will determine whether the issue raised is significant enough to delay the bid opening and issue an addendum or to proceed with the scheduled bid opening. At increments of time determined by the department, all questions and answers on the project received will be published on the On-line Public Notice Site.

SPECIAL NOTICE TO BIDDERS

The Department hereby notifies bidders that information to assist in preparing bids is available.

1. Publications. These items are available upon request in the Anchorage Department of Transportation and Public Facilities Building Plans Room located at 4111 Aviation Avenue:

   a. Standard Specifications for Highway Construction 2017. Available online at: http://www.dot.state.ak.us/stwddes/dcsspecs/pop_hwyspecs_english.shtml

2. Other Publications.
   a. Forest Resources and Practices Act, Regulations and Implementation. Available on line at: http://forestry.alaska.gov/forestpractices#acts
   b. ADOT Best Management Practices for Erosion& Sediment Control. Available on line at: http://www.dot.state.ak.us/stwddes/desenviron/resources/stormwater.shtml#

3. Materials Certification. The project manager will approve all materials unless delegated to the project engineer associated with the project.

4. High Visibility Clothing. The Department requires all workers within the project limits to wear an outer visible surface or layer of high visibility color and retroreflectivity. See subsection 643-3.11.

6. Section 641. The ESCP has been provided by the Department in the Appendix A to aid the contractor in preparing a Detailed Erosion Sediment Control Plan (DESCP).

7. COVID-19. In cooperation with the Associated General Contractors of Alaska, DOTPF has developed a COVID-19 Management Plan that has been approved by the Alaska Department of Commerce, Community and Economic Development for utilization by DOTPF contractors and consultants in compliance with the requirements of Health Mandates 10 and 12. A copy of this plan may be downloaded at:

   http://dot.alaska.gov/stwddes/dcsconst/assets/pdf/covid_response_master.pdf.

   To comply with the Health Mandates, all DOTPF contractors, subcontractors and consultants must either adopt the pre-approved COVID-19 Management Plan, or develop their own approved plan. Consistent with Section 107-1.01 of the Standard Specifications for Highway Construction, the Contractor will be responsible for paying all costs and expenses incurred to comply with all COVID-19 Health Mandates in effect during times when the Contractor is performing project-related work activities. The Contractor will additionally be responsible for preparing all general or site-specific mitigation and response plans required for its forces, along with any attendant schedule delays or impacts. To the extent mitigation and response plans are required by a Health Mandate, those will be provided to the Engineer seven (7) days prior to mobilization.

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

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. **Bid Form (Form 25D-9)**
2. **Bid Schedule**
3. **Bid Security**
4. Any bid revisions must be submitted by the bidder prior to bid opening on the following form:

   Bid Modification (Form 25D-16)

REQUIRED AFTER NOTICE OF APPARENT LOW BIDDER. The apparent low bidder is required to complete and submit the following document within 5 working days after receipt of written notification:

1. **Subcontractor List (Form 25D-5)**

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. **Construction Contract (Form 25D-10A)**
2. **Payment Bond (Form 25D-12)**
3. **Performance Bond (Form 25D-13)**
4. **Contractor's Questionnaire (25D-8)**
5. **Certificate of Insurance**
6. **Work Schedule**

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

SUBCONTRACTOR LIST

Vallenar Bay Road Improvements – ITB No. 10-021-20

Project Name and Number

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 day on the fifth working day after receipt of written or verbal notice from the Department.

Failure to submit this form with all required information by the due date will result in the bidder being declared nonresponsive 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 firm, indicate the portion or percent of work to be done by each.

Check as applicable:

☐ All Work on the above-referenced project will by accomplished without subcontracts greater than ½ of 1% of the contract amount.

OR

☐ Subcontractor List is as follows:

LIST FIRST TIER SUBCONTRACTORS ONLY

FIRM NAME, ADDRESS, PHONE NUMBER	AK BUSINESS LICENSE NO., CONTRACTOR'S REGISTRATION NO.	SCOPE OF WORK TO BE PERFORMED

CONTINUE SUBCONTRACTOR INFORMATION ON REVERSE SIDE

I hereby certify that the 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 subcontract.

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

FIRM NAME, ADDRESS, PHONE NUMBER	AK BUSINESS LICENSE NO., CONTRACTOR'S REGISTRATION NO.	SCOPE OF WORK TO BE PERFORMED

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

CONTRACTOR'S QUESTIONNAIRE

Vallenar Bay Road Improvements – ITB No. 10-021-20

Project Name and Number

A. FINANCIAL

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

   ☐ NO ☐ YES If YES, explain:

   _____
   _____
   _____
   _____
   _____

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

B. EQUIPMENT

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

ITEM	QUAN.	MAKE	MODEL	SIZE / CAPACITY	PRESENT MARKET VALUE

2. What percent of the total value of this contract do you intend to subcontract? _____%

3. Do you propose to purchase any equipment for use on this project?

☐ NO ☐ YES If YES, describe type, quantity, and approximate cost:

4. Do you propose to rent any equipment for this work?

☐ NO ☐ YES If YES, describe type and quantity:

5. Is your bid based on firm offers for all material necessary for this project?

☐ NO ☐ YES If NO, explain:

C. EXPERIENCE

1. Have you had previous construction contracts or subcontracts with the State of Alaska?

☐ NO ☐ YES If YES, explain:

2. List, as an attachment to this questionnaire, other construction projects you have completed, the dates of completion, scope of work, and total contract amount for each project completed in the past 12 months.

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

Name of Contractor	**Name & Title of Person Signing**
Signature	**Date**

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

BID FORM

for

Vallenar Bay Road Improvements – ITB No. 10-021-20

Project Name and Number

by

Company Name

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

TO THE CONTRACTING OFFICER,
DEPARTMENT OF NATURAL RESOURCES:

In compliance with your Invitation for Bids dated **July 13, 2020**, the Undersigned proposes to furnish and deliver all the materials and do all the work and labor required in the construction of the above-referenced Project, located at Gravina Island near Ketchikan, Alaska, according to the plans and specifications and for the amount and prices named herein as indicated on the Bid Schedule consisting of **two** sheets, which is made a part of this Bid.

The Undersigned declares that he has carefully examined the contract requirements and that he has made a personal examination of the site of the work; that he understands that the quantities, where such are specified in the Bid Schedule or on the plans for this project, are approximate only and subject to increase or decrease, and that he 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 fifteen calendar days, or such further time as may be allowed in writing by the Contracting Officer, after receiving notification of the acceptance of this bid, and it is hereby mutually understood and agreed that in case the Undersigned does not, the accompanying bid guarantee shall be forfeited to the State of Alaska, Department of Natural Resources as liquidated damages, and the said Contracting officer may proceed to award the contract to others.

The Undersigned agrees to commence the work within 10 calendar days, and to complete the work within **N/A** calendar days, after the effective date of the Notice to Proceed, or by **November 15, 2020**, unless extended in writing by the Contracting Officer.

The Undersigned proposes to furnish Payment Bond in the amount of **50%** (of the contract) and Performance Bond in the amount of **50%** (of the contract), as surety conditioned for the full, complete and faithful performance of this contract.

The Undersigned acknowledges receipt of the following addenda to the drawings and/or specifications (give number and date of each).

Addenda Number	Date Issued	Addenda Number	Date Issued	Addenda Number	Date Issued

NON-COLLUSION DECLARATION

The Undersigned declares, under penalty of perjury under the laws of the United States, that neither he nor the firm, association, or corporation of which he 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 and hereby agrees to the conditions stated therein by affixing his signature below:

Signature of Authorized Company Representative

Typed Name and Title

( ) **( )**

Phone Number **Fax Number**

Email Address

ALASKA PRODUCT PREFERENCE WORKSHEET

(See Reverse Side for Instructions)

Project Name and Number: _____

Bid Phase: _____ Bidder: _____

By applying my signature below, I certify under penalty of perjury that:

1. This worksheet accurately reports the type and quantity of product(s) that: (a) qualify for application of the Alaska Product Preference under AS 36.30.321 *et seq*. and (b) this bidder will use in performing the advertised project, if awarded the contract; and
2. All listed product(s) are specified for use on the project and will be permanently incorporated; and
3. I am the duly appointed representative of this bidder, which has authorized and empowered me to legally bind it concerning its proposal.

_____ _____

By (signature) Date

PRODUCT	MANUFACTURER	CLASS & PREFERENCE PERCENTAGE	TOTAL DECLARED VALUE	REDUCTION AMOUNT
			TOTAL	

INSTRUCTIONS FOR ALASKA PRODUCTS PREFERENCE WORKSHEET

Special Notice: All procurements, except those funded from Federal sources, shall contain Contract provisions for the preference of Alaska products. To be considered for the Alaska Product Preference, each product listed by the Bidder on this worksheet must have current certification from the Alaska Products Preference Program at the time of Bid Opening or the proposal due date. A product with expired certification at the bid opening or proposal due date will not be considered eligible. Products that are not specified for use on the project will not be considered eligible.

The Alaska Product Preference Program List of certified products is available online at: https://www.commerce.alaska.gov/web/dcra/AlaskaProductPreferenceProgram.aspx or may be obtained by contacting Dept. of Commerce & Economic Development Alaska Division of Community and Regional Affairs, Alaska Products Preference Program, 550 W. 7th Ave., Suite 1650, Anchorage AK 99501-3510; Phone: (907) 269- 4501 Fax: (907) 269-4563, E-mail: madeinalaska@alaska.gov

BIDDERS INSTRUCTIONS:

A. General. The contracting Agency may request documentation to support entries made on this form. False presentations may be subject to AS 36.30.687. All Bidder's entries must conform to the requirements covering bid preparations in general. Discrepancies in price extensions shall be resolved by multiplying the declared total value times the preference percentage and adjusting any resulting computation(s) accordingly.

B. Form Completion – BASIC BIDS.

(1) Enter project number and name, the words "Basic Bid" and the CONTRACTOR'S name in the heading of each page as provided.

(2) The Bidder shall compare those candidate products appearing on the preference listing (see Special Notice comments above) against the requirements of the technical specifications appearing in the contract documents. If the Bidder determines that a candidate product can suitably meet the contract requirements, then that product may be included in the worksheet as follows.

(3) For each suitable product submitted under the "Basic Bid" enter:

- The product name, generic description and its corresponding technical specification section number under the heading "PRODUCT",
- The company name of the Alaska producer under the heading "Manufacturer", and
- The product class (I, II, or III) and preference percentage (3, 5, or 7% respectively) under the "CLASS/% heading.

(4) For each product appearing on the list and to be utilized by the CONTRACTOR enter:

- Under the heading "TOTAL DECLARED VALUE" the manufacturer's quoted price of the product, (caution: this value is to be the manufacturer's quoted price at the place of origin and shall not include costs for freight, handling or miscellaneous charges of incorporating the product into the Work,) and
- The resulting preference – i.e. the preference percentage times the total declared value amount – under the heading "REDUCTION AMOUNT".

(5) Continue for all "suitable" basic bid products. If the listing exceeds one page enter the words "Page # __ SUB" in front of the word "TOTAL" and on the first line of the following pages enter "SUBTOTAL OF REDUCTION AMOUNT FROM PREVIOUS PAGE".

(6) On the final page of the listing enter "BASIC BID PREFERENCE GRAND" immediately before the word "TOTAL".

(7) Total the entries in the "REDUCTION AMOUNT" column for each page by commencing at the first entry for that page. If a continuation page exists, ensure that the subtotal from the previous page is computed into the running total. Number pages as appropriate.

(8) Compute a Grand Total for the Basic Bid Preference. Enter the amount on the final page of the worksheet. (Note: When solicitations require written bids this amount should also be entered on line "C" of the Basic Bid Schedule.) Submit worksheet(s) with the Bid Schedule.

C. Form Completion – ALTERNATE BIDS.

(1) Enter project number and name, the words "ALTERNATE BID #__", and CONTRACTOR'S name in the heading of each page as provided.

(2) On the first entry line enter "ADDITIONAL ALASKA PRODUCTS FOR ALTERNATE BID #__", and repeat procedures 2 through 5 under part B these Bidder's instructions except that references to "Basic Bid" shall be replaced with the words "Alternate Bid #__."

(3) Following the listing of all additional Alaska products enter the words "ADDITIONAL PRODUCTS PREFERENCE FOR ALTERNATE BID #__ - SUBTOTAL" and enter a subtotal amount for all additional products as listed. Subtotal amount to be determined by adding all additional product entries in the "REDUCTION AMOUNT" column.

(4) Skip three lines and enter "LESS THE FOLLOWING NON-APPLICABLE ALASKA PRODUCTS:

(5) Beginning on the next line, enter the product name and manufacturer of each Alaska Product appearing on the "Basic Bid" listing which would be deleted or reduced from the Project should the "Alternate Bid" be selected. Details of entry need only be sufficient to clearly reference the subject product. (i.e. "Pre-hung doors by Alaska Door Co., Anchorage.") Products being reduced shall specify the amount of the reduction. Should no products require deletion enter "None". When a product is listed as a "NON-APPLICABLE ALASKA PRODUCT" for this alternate bid and if under the basic bid the Bidder received a preference on his basic bid as a result of that product, then the applicable entries under the headings "TOTAL DECLARED VALUE" and "REDUCTION AMOUNT" (for each product and from the basic bid listing) shall also be entered into the corresponding headings of this form. Where only a portion of the products has been deleted, the entry (which will differ from those on the basic bid listing) may be "pro-rated" or as otherwise substantiated.

(6) Following the listing of all non-applicable Alaska products enter the words "NON-APPLICABLE PRODUCTS PREFERENCE FROM BASIC BID ___ SUBTOTAL" and enter a subtotal amount for all non-applicable products listed. Subtotal amount to be determined by adding all non-applicable entries in the "REDUCTION AMOUNT" column.

(7) At the bottom of the final page enter the words "ALTERNATE BID #___ PREFERENCE GRAND" immediately before the word "TOTAL".

(8) Compute a Grand Total for the Alternate Bid Preference (for Alternate #___) by subtracting the non-applicable product preference subtotal from the additional product preference subtotal. Enter on the final page. (Note: When solicitations require written bids this amount should also be entered on line "C" of the Alternate Bid Schedule.) Submit separate worksheet(s) with each Alternate Bid

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

ALASKA BIDDER PREFERENCE CERTIFICATION

In response to the advertised procurement for:

Project Name and Number: _____

Bidder/Proposer (company name): _____

Operation of Alaska Bidder Preference

Procurement preferences under the Alaska Procurement Code are benefits that the State grants only to qualified bidders. Under AS 36.30.990(2), if a bidder is an eligible "Alaska Bidder", the Department will apply a five percent preference to the price of the bidder's proposal.

Instructions regarding Alaska Bidder Preference

A bidder that claims the Alaska Bidder Preference must review and then certify that each statement appearing under the heading "Alaska Bidder Certification" is true. The individual that signs the certification shall include his/her printed name and position within bidder's organization, *e.g.*, sole proprietor, partner, etc. If a bidder fails to submit a signed certification, the Department will not apply the claimed preference.

Alaska Bidder Certification

The bidding entity for which I am the duly authorized representative:

(A) Holds a current Alaska business license;

(B) Is submitting a bid or proposal for goods, services, or construction under the name appearing on the bidder's current Alaska business license;

(C) Has maintained a place of business in the State staffed by the bidder or an employee of the bidder for a period of six months immediately preceding the date of the proposal;

(D) Is incorporated or qualified to do business under the laws of the State, is a sole proprietorship and the proprietor is a resident of the State, is a limited liability company organized under AS 10.50 and all members are residents of the State, or is a partnership under former AS 32.05, AS 32.06, or AS 32.11 and all partners are residents of the State; and

(E) If a joint venture, is composed entirely of ventures that qualify under the four preceding paragraphs of this Alaska Bidder Certification.

By applying my signature below, I certify under penalty of perjury that I am the duly appointed representative of this bidder, which has authorized and empowered me to legally bind it concerning its proposal, and that the foregoing statements are true and correct.

_____ _____
By (signature) Date

_____ _____
Printed name Alaska Business License Number

_____
Title:

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

ALASKA VETERAN PREFERENCE CERTIFICATION

In response to the advertised procurement for:

Project Name and Number _____,

Bidder (Contractor) _____

Operation of Alaska Veteran Preference

Procurement preferences under the Alaska Procurement Code are benefits that the State grants only to qualified bidders. Under AS 36.30.321, an eligible entity receives a five percent preference to the price of in the bidder's proposal if the bidder meets three requirements.

The bidder must be:

1. an "Alaska Veteran";
2. a "Qualifying Entity"; and
3. an "Alaska Bidder".

Unless a bidder satisfies all three requirements and furnishes corresponding certifications, it is not eligible for the Alaska Veteran Preference. This preference may not exceed $5,000.

Instructions regarding Alaska Veteran Preference

A bidder that claims the Alaska Veteran Preference must review and complete the "Alaska Veteran Certification", the "Qualifying Entity Certification", and the "Alaska Bidder Certification". The individual that signs a certification shall include his/her printed name and position within bidder's organization, *e.g.*, sole proprietor, partner, etc. If a bidder fails to submit properly completed certifications, the Department will not apply the claimed preference.

Alaska Veteran Certification

(*To be completed by individual(s) upon whom the bidder relies in claiming the Alaska Veteran status. If bidder is a partnership, limited liability company, or corporation, then a majority of partners, members, or shareholders who are Alaska Veterans must sign this Alaska Veteran Certification for the Bidder to be eligible for this preference.*)

I hereby represent to the Department that:

I served in the armed forces of the United States, a reserve unit of the United States armed forces, the Alaska Territorial Guard, the Alaska Army National Guard, the Alaska Air National Guard, or the Alaska Naval Militia; and

I was separated from service under a condition that was not dishonorable; and

I am Alaska resident in that I am physically present in the State of Alaska with the intent to remain in the State indefinitely and to make a home in the State.

I certify under penalty of perjury that the foregoing statements are true and correct as they apply to me.

_____	_____
By (signature)	Date
_____	_____
Printed name	Title

Qualifying Entity Veteran Certification

The bidding entity for which I am the duly authorized representative is a:

(*Check the appropriate box*)

- ☐ sole proprietorship owned by an Alaska Veteran;
- ☐ partnership under AS 32.06 or AS 32.11 and a majority of the partners are Alaska Veterans;
- ☐ limited liability company organized under AS 10.50 and a majority of the members are Alaska Veterans; or
- ☐ corporation that is wholly owned by individuals and a majority of the individuals are Alaska Veterans.

By applying my signature below, I certify under penalty of perjury that I am the duly appointed representative of this bidder, which has authorized and empowered me to legally bind it concerning the proposal and that the statement I have acknowledged above by checking the appropriate box is true and correct.

By (signature)	Date
Printed name	Title

Alaska Bidder Certification

(*To complete your claim for the Alaska Veteran Preference, you must also submit an Alaska Bidder Certification, which the bidder can view, download, and print from the AKDOT&PF's Bid Express Proposal page.*)

State of Alaska Department of Natural Resources Division of Forestry Coastal Region	**BID SCHEDULE**	Vallenar Bay Road Improvements - ITB No.: 10-021-20

The Bidder shall insert, as called for, a unit price or a lump sum price in figures opposite each Pay Item for which an estimated quantity appears in the Bid Schedule. A unit price or lump sum price is not to be entered or tendered for any Pay Item not appearing in the Bid Schedule. The Estimated Quantity of work for payment on a lump sum basis will be "All Required" and as further specified in the Contract. Wherever a contingent sum is shown for any item in this Bid Schedule, such amount shall govern and be included in the Bid Total.

Conditioned or qualified bids will be considered Non-Responsive.
Contract award will be made on the basis of the basic bid plus alternates, in the order listed and to the extent of available funding.

The bidder shall insert a unit bid price for each pay item listed below. Type or print legibly.

Base Bid (Work Areas 1, 2 & 5)

Item Number	Description	Unit	Quantity	Unit Bid Price	Bid Amount
203(3)	Unclassified Excavation	Cubic Yard	1500		
203(5D)	Unclassified Borrow	Cubic Yard	3325		
203(20)	Linear Grading	Linear Foot	1410		
252(4)	Rock Buttress	Cubic Yard	100		
603(17-18)	18-Inch Pipe	Linear Foot	50		
603(17-48)	48-Inch Pipe	Linear Foot	12		
640(1)	Mobilization and Demobilization	Lump Sum	All Req'd	Lump Sum	
642(1)	Construction Surveying	Lump Sum	All Req'd	Lump Sum	
800(1)	Interim Work Authorization	Contingent Sum	All Req'd	Contingent Sum	$10,000.00
	Total Basic Bid		$		

State of Alaska Department of Natural Resources Division of Forestry Coastal Region	**BID SCHEDULE**	Vallenar Bay Road Improvements - ITB No.: 10-021-20

The bidder shall insert a unit bid price for each pay item listed below. Type or print legibly.

Additive Alternate 1 (Work Area 3)

Item Number	Description	Unit	Quantity	Unit Bid Price	Bid Amount
203(5D)	Unclassified Borrow	Cubic Yard	750		
203(20)	Linear Grading	Linear Foot	180		
642(1)	Construction Surveying	Lump Sum	All Req'd	Lump Sum	
800(1)	Interim Work Authorization	Contingent Sum	All Req'd	Contingent Sum	$2,500.00
	Total Additive Alternate 1 Bid		$		

The bidder shall insert a unit bid price for each pay item listed below. Type or print legibly.

Additive Alternate 2 (Work Area 6)

Item Number	Description	Unit	Quantity	Unit Bid Price	Bid Amount
203(27A)	Ditch Linear Grading	Linear Foot	125		
642(1)	Construction Surveying	Lump Sum	All Req'd	Lump Sum	
800(1)	Interim Work Authorization	Contingent Sum	All Req'd	Contingent Sum	$2,500.00
	Total Additive Alternate 2 Bid		$		

The bidder shall insert a unit bid price for each pay item listed below. Type or print legibly.

Additive Alternate 3 (Work Area 7)

Item Number	Description	Unit	Quantity	Unit Bid Price	Bid Amount
203(5D)	Unclassified Borrow	Cubic Yard	100		
203(20)	Linear Grading	Linear Foot	110		
642(1)	Construction Surveying	Lump Sum	All Req'd	Lump Sum	
800(1)	Interim Work Authorization	Contingent Sum	All Req'd	Contingent Sum	$2,500.00
	Total Additive Alternate 3 Bid		$		

The bidder shall insert a unit bid price for each pay item listed below. Type or print legibly.

Additive Alternate 4 (Work Area 4)

Item Number	Description	Unit	Quantity	Unit Bid Price	Bid Amount
203(3)	Unclassified Excavation	Cubic Yard	1200		
203(5D)	Unclassified Borrow	Cubic Yard	750		
203(20)	Linear Grading	Linear Foot	375		
642(1)	Construction Surveying	Lump Sum	All Req'd	Lump Sum	
800(1)	Interim Work Authorization	Contingent Sum	All Req'd	Contingent Sum	$2,500.00
	Total Additive Alternate 4 Bid		$		

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

CONSTRUCTION CONTRACT

Vallenar Bay Road Improvements – ITB No. 10-021-20
Project Name and Number

This CONTRACT, between the STATE OF ALASKA, DEPARTMENT OF NATURAL RESOURCES, herein called the Department, acting by and through its Contracting Officer, and

_____
Company Name

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

a/an [ ] Individual [ ] Partnership [ ] Joint Venture [ ] Sole Proprietorship [ ] Corporation incorporated under the laws of the State of _____ its successors and assigns, herein called the Contractor, is effective the date of the signature of the Contracting Officer on this document.

WITNESSETH: That the Contractor, for and in consideration of the payment or payments herein specified and agreed to by the Department, hereby covenants and agrees to furnish and deliver all the materials and to do and perform all the work and labor required in the construction of the above-referenced project at the prices bid by the Contractor for the respective estimated quantities aggregating approximately the sum of

_____ Dollars
($_____), and such other items as are mentioned in the original Bid, which Bid and prices named, together with the Contract Documents are made a part of this Contract and accepted as such.

The Alaska Standard Specifications for Highway Construction, 2017 Edition is incorporated by reference and made a part hereof as if set forth in full. The Alaska Standard Specifications for Highway Construction can be downloaded at: http://www.dot.state.ak.us/stwddes/dcsspecs/index.shtml

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, will be allowed by the Department, nor shall the Contractor do any work or furnish any material not covered by this Contract, unless such work is ordered in writing by the Department. In no event shall the Department be liable for any materials furnished or used, or for any work or labor done, unless the materials, work, or labor are required by the Contract or on written order furnished by the Department. Any such work or materials which may be done or furnished by the Contractor without written order first being given shall be at the Contractor's own risk, cost, and expense and the Contractor hereby covenants and agrees to make no claim for compensation for work or materials done or furnished without such written order.

The Contractor further covenants and agrees that all materials shall be furnished and delivered and all labor shall be done and performed, in every respect, to the satisfaction of the Department, on or before: **November 15, 2020** or within N/A calendar days. 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 the Department, to complete the furnishing and delivery of materials and the doing and performance of the work before the aforesaid date, the Department shall have the right to deduct from any money due or which may become due the Contractor, or if no money shall be due, the Department shall have the right to recover **(See Section 108-1.07)** dollars ($ **550**) per day for each calendar day elapsing between the time stipulated for the completion and the actual date of completion in accordance with the terms hereof; such deduction to be made, or sum to be recovered, not as a penalty but as liquidated damages.

The bonds given by the Contractor in the sum of $_____ Payment Bond, and $_____ 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

Company Name

Signature of Authorized Company Representative

Typed Name and Title

Email Address

Date

(Corporate Seal)

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

Design & Construction Duly Authorized Representative (Signature) **Date**

Typed Name

Signature of Contracting Officer **Date**

Typed Name

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

PAYMENT BOND

Bond No._____

For

Vallenar Bay Road Improvements – ITB No. 10-021-20
Project Name and Number

KNOW ALL WHO SHALL SEE THESE PRESENTS:

That _____
of _____ as Principal,
and _____
of _____ as Surety,
firmly bound and held unto the State of Alaska in the penal sum of
_____ Dollars
($_____) good and lawful money of the United States of America for the payment whereof,
well and truly to be paid to the State of Alaska, we bind ourselves, our heirs, successors, executors, administrators, and assigns, jointly and severally, firmly by these presents.

WHEREAS, the said Principal has entered into a written contract with said State of Alaska, on the_____ of_____ A.D., 20____, for construction of the above-referenced project, said work to be done according to the terms of said contract.

Now, THEREFORE, the conditions of the foregoing obligation are such that if the said Principal shall comply with all requirements of law and pay, as they become due, all just claims for labor performed and materials and supplies furnished upon or for the work under said contract, whether said labor be performed and said materials and supplies be furnished under the original contract, any subcontract, or any and all duly authorized modifications thereto, then these presents shall become null and void; otherwise they shall remain in full force and effect.

IN WITNESS WHEREOF, we have hereunto set our hands and seals at _____, _____ this_____ day of_____ A.D., 20_____.

Principal: _____

Address: _____

By: _____

Contact Name: _____

Phone: ( ) _____

Surety: _____

Address: _____

By: _____

Contact Name: _____

Phone: ( ) _____

The offered bond has been checked for adequacy under the applicable statutes and regulations:

_____ _____
Alaska Department of Natural Resources Authorized Representative **Date**

See Instructions on Reverse

INSTRUCTIONS

1. This form, for the protection of persons supplying labor and material, shall be used whenever a payment bond is required. There shall be no deviation from this form without approval from the Contracting Officer.

2. The full legal name, business address, phone number, and point of contact of the Principal and Surety shall be typed 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 typed in words and in figures.

4. Where individual sureties are involved, a completed Affidavit of Individual Surety shall accompany the bond. Such forms are available upon request from the Contracting Officer.

5. 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.

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

PERFORMANCE BOND

Bond No._____

For

Vallenar Bay Road Improvements – ITB No. 10-021-20
Project Name and Number

KNOW ALL WHO SHALL SEE THESE PRESENTS:

That _____
of _____ as Principal,
and _____
of _____ as Surety,
firmly bound and held unto the State of Alaska in the penal sum of
_____ Dollars
($_____) good and lawful money of the United States of America for the payment whereof,
well and truly to be paid to the State of Alaska, we bind ourselves, our heirs, successors, executors, administrators, and assigns, jointly and severally, firmly by these presents.

WHEREAS, the said Principal has entered into a written contract with said State of Alaska, on the_____ of_____ A.D., 20_____, for construction of the above-named project, said work to be done according to the terms of said contract.

Now, THEREFORE, the conditions of the foregoing obligation are such that if the said Principal shall well and truly perform and complete all obligations and work under said contract and if the Principal shall reimburse upon demand of the Department of Natural Resources any sums paid him which exceed the final payment determined to be due upon completion of the project, then these presents shall become null and void; otherwise they shall remain in full force and effect.

IN WITNESS WHEREOF, we have hereunto set our hands and seals at_____,
_____ this_____ day of_____ A.D., 20_____.

Principal: _____

Address: _____

By: _____

Contact Name: _____

Phone: ( ) _____

Surety: _____

Address: _____

By: _____

Contact Name: _____

Phone: ( ) _____

The offered bond has been checked for adequacy under the applicable statutes and regulations:

_____ _____
Alaska Department of Natural Resources Authorized Representative **Date**

See Instructions on Reverse

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, phone number, and point of contact of the Principal and Surety shall be typed 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 typed in words and in figures.

4. Where individual sureties are involved, a completed Affidavit of Individual Surety shall accompany the bond. Such forms are available upon request from the Contracting Officer.

5. The bond shall be signed by authorized persons. Where such person is 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.

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

BID BOND

For

Vallenar Bay Road Improvements – ITB No. 10-021-20

Project Name and Number

DATE BOND EXECUTED: _____

PRINCIPAL (Legal name and business address):	TYPE OF ORGANIZATION:
	[ ] Individual [ ] Partnership [ ] Joint Venture [ ] Corporation
	STATE OF INCORPORATION:

SURETY(IES) (Name and business address):

A.	**B.**	**C.**
PENAL SUM OF BOND:		DATE OF BID:

We, the PRINCIPAL and SURETY above named, are held and firmly bound to the State (State of Alaska), in the penal sum of the amount stated above, for the payment of which sum will be made, we bind ourselves and our legal representatives and successors, jointly and severally, by this instrument.

THE CONDITION OF THE FOREGOING OBLIGATION is that the Principal has submitted the accompanying bid in writing, date as shown above, on the above-referenced Project in accordance with contract documents filed in the office of the Contracting Officer, and under the Invitation for Bids therefor, and is required to furnish a bond in the amount stated above.

If the Principal's bid is accepted and he is offered the proposed contract for award, and if the Principal fails to enter into the contract, then the obligation to the State created by this bond shall be in full force and effect.

If the Principal enters into the contract, then the foregoing obligation is null and void.

PRINCIPAL

Signature(s)	**1.**	**2.**	**3.**
Name(s) & Title(s) (Typed)	**1.**	**2.**	**3.**
			Corporate Seal

See Instructions on Reverse

CORPORATE SURETY(IES)

Surety A	Name of Corporation		State of Incorporation	Liability Limit **$**
Signature(s)	**1.**	**2.**		Corporate Seal
Name(s) & Titles (Typed)	**1.**	**2.**		

Surety B	Name of Corporation		State of Incorporation	Liability Limit **$**
Signature(s)	**1.**	**2.**		Corporate Seal
Name(s) & Titles (Typed)	**1.**	**2.**		

Surety C	Name of Corporation		State of Incorporation	Liability Limit **$**
Signature(s)	**1.**	**2.**		Corporate Seal
Name(s) & Titles (Typed)	**1.**	**2.**		

INSTRUCTIONS

1. This form shall be used whenever a bid bond is submitted.
2. Insert the full legal name and business address of the Principal in the space designated. If the Principal is a partnership or joint venture, the names of all principal parties must be included (e.g., "Smith Construction, Inc. and Jones Contracting, Inc. DBA Smith/Jones Builders, a joint venture"). If the Principal is a corporation, the name of the state in which incorporated shall be inserted in the space provided.
3. Insert the full legal name and business address of the Surety in the space designated. The Surety on the bond may be any corporation or partnership authorized to do business in Alaska as an insurer under AS 21.09. Individual sureties will not be accepted.
4. The penal amount of the bond may be shown either as an amount (in words and figures) or as a percent of the contract bid price (a not-to-exceed amount may be included).
5. The scheduled bid opening date shall be entered in the space marked Date of Bid.
6. The bond shall be executed by authorized representatives of the Principal and Surety. Corporations executing the bond shall also affix their corporate seal.
7. Any person signing in a representative capacity (e.g., an attorney-in-fact) must furnish evidence of authority if that representative is not a member of the firm, partnership, or joint venture, or an officer of the corporation involved.
8. The states of incorporation and the limits of liability of each surety shall be indicated in the spaces provided.
9. The date that bond is executed must not be later than the bid opening date.

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

BID MODIFICATION

Vallenar Bay Road Improvements – ITB No. 10-021-20
Project Name and Number

Modification Number: _____

Note: All revisions shall be made to the unadjusted bid amount(s).
Changes to the adjusted bid amounts will be computed by the Department.

PAY ITEM NO.	PAY ITEM DESCRIPTION	REVISION TO UNIT BID PRICE +/-	REVISION TO BID AMOUNT +/-

TOTAL REVISION: $_____

_____
Name of Bidding Firm

_____
Responsible Party Signature **Date**

This form may be duplicated if additional pages are needed.

STANDARD MODIFICATIONS AND SPECIAL PROVISIONS

to the

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

2017 STANDARD SPECIFICATIONS for HIGHWAY CONSTRUCTION

VALLENAR BAY ROAD IMPROVEMENTS

ITB No. 10-021-20

State use only: DOF 34050-5

SECTION 101
DEFINITIONS AND TERMS

Special Provisions

101-1.03 DEFINITIONS.

DEPARTMENT. The Alaska Department of Natural Resources, Division of Forestry (DOF).

ROADWAY. The portion of a highway, road, or facility including shoulders within the limits of construction.

ADVERSE GRADE. Any grade that a loaded log truck would travel up when hauling logs from the cutting unit or other log source location to the barge landing, lumber/pulp mill, or point of sale. On this project, trucks are hauling to Gravina Island Industrial Complex.

FAVORABLE GRADE. Any grade that a loaded log truck would travel down when hauling logs from the cutting unit or other log source location to the barge landing, lumber/pulp mill, or point of sale. On this project, trucks are hauling to Gravina Island Industrial Complex.

SECTION 102
BIDDING REQUIREMENTS AND CONDITIONS

Standard Modification

102-1.05 PREPARATION OF BID.

A bidder shall prepare its bid using the Department provided bid forms or legible copies of the Department's forms. All entries shall be legible and in ink or typed.

Bidders shall:

1. Enter all prices required on the Bid Schedule, in figures;

2. Enter a unit price for each contract item for which a quantity is given;

3. Enter the products of the respective unit prices and quantities in the column provided;

4. Enter lump sum prices for lump sum contract items in the column(s) provided; and

5. Enter the total amount of all contract items for the basic bid and, when specified, any alternates.

When a bid item contains a choice to be made by the bidder, the bidder shall indicate a choice according to the Specifications for that item. No further choice is permitted.

The bid must be signed in ink or by a digital signature by the person or persons authorized to sign the Contract for the bidder. If a bidder is a corporation, the bid must be signed by a corporate officer or agent with authority to bind the corporation. If a bidder is a partnership, a partner must sign. If the bidder is a joint venture, each principal member must sign. If a bidder is a sole proprietorship, the owner must sign. Each person signing the bid must initial any changes made to entries on the bid forms.

A bidder submitting an electronic bid agrees that its digital signature constitutes a binding signature.

The Department reserves the right to postpone the public bid opening in the event of technical problems.

For multiple-project bid openings, the bidder may limit the total dollar amount or number of projects to be accepted by completing and attaching the following statement with its bid for at least one of the projects. The Department will then determine which of the low bids it will accept, up to the total indicated.

"We wish to disqualify all of our successful bids at this bid opening which exceed the total of

$_____ or ____ contracts and hereby authorize the Department to determine which bids to disqualify, based on this limit."

102-1.06 NONRESPONSIVE BIDS.

1. A bid shall be rejected as nonresponsive if it:

   a. Is not properly signed by an authorized representative of the bidder and in a legally binding manner;

   b. Contains unauthorized additions, conditional or alternative bids, or other irregularities that make the bid incomplete, indefinite, or ambiguous;

   c. Includes a reservation of the right to accept or reject any award, or to enter into a Contract pursuant to an award, except for an award limitation under Subsection 102-1.05;

   d. Fails to include an acceptable bid guaranty with the bid;

   e. Is materially unbalanced; or

   f. Fails to meet any other material requirement of the Invitation to Bid.

2. A bid may be rejected as nonresponsive, in the Department's discretion, if it:

   a. Is not typed or completed in ink;

   b. Fails to include an acknowledgement of receipt of each addendum by assigned number and date of issue; or

   c. Is missing a bid price for any pay item, except when alternate pay items are authorized.

102-1.07 BID GUARANTY.

Bids shall be accompanied by a bid guaranty in the amount specified on the Invitation to Bid. The guaranty shall be unconditionally payable to the State of Alaska and shall be in the form of an acceptable paper Bid Bond (Form 25D-14), an electronic bid bond acceptable to the Department, a certified check, a cashier's check, or a money order.

The surety of a Bid Bond may be any corporation or partnership authorized to do business in Alaska as an insurer under AS 21.09. A legible power of attorney shall be included with each paper Bid Bond (Form 25D-14).

An individual surety will not be accepted as a bid guaranty.

102-1.08 DELIVERY OF BIDS.

Bids shall be submitted by mail, fax, email, or sealed envelope. When bids are submitted in a sealed envelope, the envelope shall clearly indicate its contents and the designated address, as specified on the Invitation to Bid. Bids for other work may not be included in the envelope.

102-1.09 WITHDRAWAL OR REVISION OF BIDS.

Manual bids may be withdrawn or revised in writing delivered by mail, fax, email, or sealed envelope provided that the designated office receives the withdrawal or revision before the deadline stated in the in the Invitation to Bid. Withdraw requests must be signed and submitted by the bidder's duly appointed representative who is legally authorized to bind the bidder. Revisions shall include both the modification of the unit bid price and the total modification of each item modified but shall not reveal the amount of the total original or revised bids.

Electronic bids may be withdrawn or revised by mail, fax, email, or sealed envelope provided that the designated office receives the withdrawal or revision before the deadline stated in the Invitation to Bid. Written withdrawal requests must be signed and submitted by the bidder's duly appointed representative who is legally authorized to bind the bidder.

102-1.11 ADDENDA REQUIREMENTS.

The Department will issue addenda if it determines, in its discretion, that clarifications or changes to the Contract documents or bid opening date are needed. The Department may send addenda by any reasonable method such as fax, email, or may post the addenda on the State of Alaska Online Public Notice website. Unless picked up in person or included with the bid documents, addenda or notice that an addendum has been issued will be addressed to the individual or company to whom bidding documents were issued and sent to the email address or fax number on the plan holders' list. Notwithstanding the Department's efforts to distribute addenda, bidders are responsible for ensuring that they have received all addenda affecting the Invitation to Bid. Bidders must acknowledge all addenda on the Bid Forms, by mail, fax, email, or sealed envelope before the deadline stated in the Invitation to Bid.

102-1.12 RECEIPT AND OPENING OF BIDS.

The Department will only consider bids, revisions, and withdrawals received before the deadline stated in the Invitation to Bid.

The Department will assemble, open, and publicly announce bids at the time and place indicated in the Invitation to Bid, or as soon thereafter as practicable. The Department is not responsible for prematurely opening or failing to open bids that are improperly addressed or identified.

102-1.14 ELECTRONIC MAIL Within its submitted bid, a bidder must include a current electronic mail (email) address of bidder's representative who possesses authority to receive, process, and respond to Department emails regarding the advertised project.

The Department may send notices and information to a bidder by using the furnished email address of the bidder's authorized representative.

A bidder shall notify the Department if the bidder requests the Department to send email notices or information to an address different from the email address initially provided in its bid forms. The bidder shall notify the Department of such change by sending a request in writing to the Contract's point of contact identified on the Invitation to Bid that is signed by a representative who is authorized and empowered to legally bind the bidder.

Delivery of an email sent by the Department is complete upon receipt in the addressee's email account. An email sent after 4:30 pm shall be deemed to have occurred at the opening of business on the next working day.

If needed, the Department may demonstrate proof of email delivery by affidavit or certification that includes the following:

1. The date and time that the Department sent the email message;

2. The email address from which the Department sent the message;

3. The name and email address to which the Department sent the message;

4. A statement that the Department sent the email message and that the person signing the affidavit or certification believes the transmission to have been complete and without error; and

5. An attached copy of the subject email.

HSM18-1.102-070118

SECTION 103
AWARD AND EXECUTION OF CONTRACT

Special Provisions

103-1.01 CONSIDERATION OF BIDS.

After the bids are opened and read, the bids will be mathematically checked and compared on the basis of the sum of the products of the bid schedule quantities and the unit bid prices. The unit bid prices govern if there is an error in extending the unit bid prices, or in totaling the extensions, or if an extension is missing. The results of the bid comparisons will be made available to the public as soon as practicable.

Until the Award, the Department may reject any or all bids, waive minor informalities or advertise for new bids without liability to any bidder if the Department, in its discretion, determines that to do so is in the best interests of the State.

A bidder may request withdrawal of a bid after opening and before the Award only in accordance with AS 36.30.160(b) and State procurement regulations. Submit the request to the Contracting Officer.

An interested party, as defined in AS 36.30.699, may protest a proposed Award of contract as per AS 36.30.560 and AS 36.30.565. Submit the protest to the Contracting Officer.

WHOLLY STATE-FUNDED PROJECTS. On wholly state-funded projects, determination of the low bidder will include bidder preferences as required under AS 36.30.321, according to subsections 1-3 below. Alaska Bidder Preference, Alaska Veteran Preference, and Alaska Product Preference are not applicable on projects with federal funding.

1. Alaska Bidder Preference: A bidder claiming this preference shall provide with their bid an Alaska Bidder Preference Certification, certifying they qualify as an Alaska bidder eligible for Alaska Bidder Preference according to AS 36.30.

   If the bidder qualifies as an Alaska bidder, a five percent (5%) preference will be applied to the price of the bid. "Alaska bidder" means a person who:

   a. holds a current Alaska business license;

   b. submits a bid for goods, services, or construction under the name as appearing on the person's current Alaska business license;

   c. has maintained a place of business within the state staffed by the bidder or an employee of the bidder for a period of six months immediately preceding the date of the bid;

   d. is incorporated or qualified to do business under the laws of the state, is a sole proprietorship and the proprietor is a resident of the state, is a limited liability company

organized under AS 10.50 and all members are residents of the state, or is a partnership under former AS 32.05, AS 32.06, or AS 32.11 and all partners are residents of the state; and

e. If a joint venture, is composed entirely of ventures that qualify under (a) through (d), above.

2. Alaska Veteran Preference: A bidder claiming this preference shall provide an Alaska Veteran Preference Certification, certifying they qualify as an Alaska bidder eligible for Alaska Veteran preference according to AS 36.30.

   If a bidder qualifies as an Alaska bidder and is a qualifying entity, an Alaska Veteran Preference of 5 percent (5%) shall be applied to the bid price. The preference may not exceed $5,000 (AS 36.30.321). A "qualifying entity" means a:

   a. sole proprietorship owned by an Alaska veteran;

   b. partnership under AS 32.06 or AS 32.11 if a majority of the partners are Alaska veterans;

   c. limited liability company organized under AS 10.50 if a majority of the members are Alaska veterans; or

   d. corporation that is wholly owned by individuals, and a majority of the individuals are Alaska veterans.

   A preference under this section is in addition to any other preference for which the bidder qualifies.

   To qualify for this preference, the bidder must add value by the bidder itself actually performing, controlling, managing and supervising a significant part of the services provided or the bidder must have sold supplies of the general nature solicited to other state agencies, governments, or the general public.

   An Alaska veteran is a resident of Alaska who:

   (1) served in the Armed forces of the United States, including a reserve unit of the United States armed forces; or the Alaska Territorial Guard, the Alaska Army National Guard, the Alaska Air National Guard, or the Alaska Naval Militia; and

   (2) was separated from service under a condition that was not dishonorable.

3. Alaska Product Preference: A bidder claiming this preference shall complete and sign the Alaska Product Preference Worksheet, according to the worksheet instructions, and submit the completed worksheet with their bid.

   Except for timber, lumber and manufactured lumber products used in the construction project

under AS 36.30.322(b), an Alaska products preference will be given as required under AS 36.30.326 - 36.30.332 when the bidder designates the use of Alaska products.

If the successful bidder/Contractor proposes to use an Alaska product and does not do so, a penalty will be assessed against the successful bidder/Contractor according to AS 36.30.330(a).

Each Alaska product declared on the Alaska Product Preference Worksheet must have an "Approval" date on the Alaska Product Preference Program List, that is on or before the bid opening date for this contract, and that does not expire before the bid opening date for this contract.

HSM18-1.103-070118

103-1.03 AWARD OF CONTRACT.

The Department will award the Contract to the lowest responsible and responsive bidder unless it rejects all bids. The Department will notify all bidders in writing via email, fax, or U.S. Mail of its intent to award. When the Bidding Documents contain a basic bid and additive alternates, only the total of the basic bid and as many additive alternates as may be selected within the funds available shall be used to determine the low Bidder.

The Purchasing Officer may bypass any additive alternate whose selection would cause the Contract to exceed the funds available.

The amount of the Contract shall be the total sum of the amounts computed from the estimated quantities and unit prices and/or the lump sum awarded by the Purchasing Officer and specified in the Contract. If residual funds become available during the course of construction, award of additional additive alternates may occur at the prices given in the selected bid. The Contractor shall honor their initial bid prices provided at the time of the bid award and will be subject for review and acceptance by the Engineer.

The Department will notify the successful bidder in writing of its intent to award the Contract and request that certain required documents, including the Contract Form, bonds, and insurance be submitted within the time specified. The successful bidder's refusal to sign the Contract and provide the requested documents within the time specified may result in cancellation of the notice of intent to award and forfeiture of the bid security.

If an award is made, it will be made as soon as practicable and usually within 40 days after bid opening. Award may be delayed due to bid irregularities or a bid protest, or if the award date is extended by mutual consent. Bids shall be valid for 120 days after bid opening, and may be extended by mutual consent.

103-1.06 INSURANCE REQUIREMENTS The State of Alaska and the Ketchikan Gateway Borough shall be named as an additional insured on policies required by the Standard Specifications for Highway Construction 2017 Edition section 103-1.06 Insurance Requirements. Insurance coverages shall be considered to be primary and non-contributory to any other insurance carried by the State of Alaska or the Ketchikan Gateway Borough, whether through self-insurance or otherwise.

SECTION 105
CONTROL OF WORK

Special Provisions

105-1.02 PLANS AND WORKING DRAWINGS. Full size plan sets are 11 inches by 17 inches. Plans are not available in CAD digital format.

105-1.05 COOPERATION BY CONTRACTOR. Blasting operations, equipment storage or construction activities within Airport Reserve Property are to be coordinated with Ketchikan International Airport. Contact person is as follows:

Mr. Mike Carney
Airport Manager's Office, 1000 Airport Terminal Bldg., Ketchikan, AK 99901
Phone 907-228-6688
Cell phone 907-617-2455

105-1.07 COOPERATION BETWEEN CONTRACTORS. A Contractor for the State of Alaska Department of Transportation and Public Facilities (DOT&PF) will be performing construction on the Lewis Reef Road north of Ketchikan International Airport. Coordinate with DOT&PF or their Contractor to avoid conflict in construction operations.

105-1.08 SURVEY CONTROL. Control data will not be provided under this Contract. The Contractor shall provide all survey work to generate earthwork quantities for payment and to maintain control (as required) during the project.

SECTION 106
CONTROL OF MATERIAL

Special Provisions

106-1.02 MATERIAL SOURCES.

1. General.:

Rock borrow sources for constructing the road are unspecified. Existing pits are available and contain material that may be used for roadway construction. If pit development is required, it is the Contractor's responsibility to assess the rock's suitability for pit development in the area of the road and propose pit sites or sources to the DOF for approval prior to source development.

Rock borrow sources from outside the right-of-way on Airport Reserve and Ketchikan Gateway Borough land are subject to the Ketchikan Gateway Borough's approval. The forest road right-of-way is 50 feet either side of centerline. Rock borrow sources are incidental to the construction and subject to the approval of the Engineer.

A segment of the work on Vallenar Bay Road is located on Airport Reserve Property (ARP). Any earthwork material that is removed from ARP shall be purchased at the negotiated price between the KGB and the Contractor or shall be replaced with other material of similar nature in quality and volume.

SECTION 107
LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC

Special Provisions

107-1.02 PERMITS, LICENSES, AND TAXES.

9. Provide the information necessary to comply with the Alaska Forest Practices Act and Regulations. Requirements for this are given in Section 641 Erosion, Sediment, and Pollution Control.

107-1.12 FOREST PROTECTION.

7. Make every effort to prevent and suppress fires within the Project Area during the term of this Contract. Unless otherwise required herein, or prevented by circumstances over which the Contractor has no control, the Contractor shall place its equipment, employees, subcontractors, and employees of subcontractors at the disposal of any authorized government employee for the purpose of fighting forest fires within or near the Project Area.

8. Contractor will ensure that the road building crews have adequate fire fighting equipment and training for its use on site when operating in the contract area, pursuant to the approved operating plan. In the event of "extreme fire danger," a fire watch will remain in the active road building areas a minimum of one hour after work has stopped for the day, or at its election, the State may suspend road building operations until the fire danger is reduced. Contractor shall report all fires to the Alaska Division of Forestry in Ketchikan at (907) 225-3070 and to the U. S. Forest Service in Ketchikan at (907) 225-2148 immediately after becoming aware of a fire or imminent threat of fire.

107-1.15 CONTRACTOR'S RESPONSIBILITY FOR WORK. The Contractor shall maintain the constructed road and associated roads used to access the area to the standards of the Alaska Forest Practices Act and Regulations for active roads.
http://forestry.alaska.gov/statutes.htm
The Contractor shall perform surface blading, minor structure replacement, ditch and culvert cleaning, brushing, resurfacing, and reconstruction of the road structure to repair any damage caused by the Contractor's operations and use of the road or as mutually agreed upon from time to time. Maintenance shall consist of:

a. maintenance as necessary to preserve, repair, and protect the roadbed, surface and all structures and appurtenances, and

b. resurfacing equivalent in extent to the wear and loss of surfacing caused by operations authorized by this Contract.

c. maintenance not due to Contractor's operations and use of the roadway shall be paid for as additional work.

SECTION 108
PROSECUTION AND PROGRESS

Special Provisions

108-1.01 SUBCONTRACTING OF CONTRACT.

1h. Other required items listed in Form 25D-042 are included in the subcontracts;

2g. Other required items listed in Form 25D-042, are included in the lower tier subcontracts;

Form 25D-042 can be found at:
http://dot.alaska.gov/stwddes/dcsconst/assets/pdf/constforms/25d_042.pdf

SSP-58.108.SSHC2017-030117

108-1.03 PROSECUTION AND PROGRESS.

Once field work has commenced, Project Completion shall be completed within the sum of the calendar days for each bid schedule awarded.

Base Bid	21 days
Additive Alternate 1	3 days
Additive Alternate 2	3 days
Additive Alternate 3	4 days
Additive Alternate 4	7 days

SECTION 109
MEASUREMENT AND PAYMENT

Standard Modification

109-1.01 GENERAL.

Pay item numbers in the Bid Schedule are cross-referenced to the pay item numbers in all other contract documents. The cross-reference for pay item numbers is included in the Estimate of Quantities table on the plans.

HSM18-1.109-070118

Special Provisions

109-1.02 MEASUREMENT OF QUANTITIES. Replace item, "14. Weighing Procedures" with "Weighing Procedures". "Weighing Procedures" is a subtopic under item "13. Ton (2,000 pounds)."

CR109.3-042015

109-1.05 COMPENSATION FOR EXTRA WORK ON TIME AND MATERIALS BASIS.

The rental rate area adjustment factors for this project shall be as specified on the adjustment maps for the Alaska – South Region.

Provide a printed copy of the current EquipmentWatch rate sheet for each piece of equipment utilized on time and materials work.

CR109.2-110118

SECTION 201
CLEARING AND GRUBBING

Special Provisions

201-3.03 GRUBBING. Remove and dispose of all roots, moss, grass, turf, debris, or other objectionable material within excavation limits, and within fill limits where the embankments are to be made to a depth less than 2 feet below subgrade. Remove stumps with less than 24 inches of cover. Grub any other areas designated on the Plans or in the Special Provisions.

201-3.06 DISPOSAL.

The following are approved methods of disposal of unmerchantable timber, construction slash and debris:

(a) Remove from project. Recycle or dispose of material legally off the project. Furnish a statement documenting the nature and quantity of material processed or sold for recycling. Otherwise, furnish a signed copy of the disposal agreement before disposal begins.

(d) Hazardous material. Furnish a copy of all disposal permits. Dispose of material according to Federal, State, and local regulations.

(c) Scattering. Scatter construction slash outside the clearing limits without damaging trees. Limb all logs. Place logs and stumps away from trees, positioned so they will not roll, and are not on top of one another. Limb and scatter other construction slash to reduce slash concentrations.

(d) Chipping or Grinding. Use an approved chipping machine to grind slash and stumps greater than 3 inches in diameter and longer than 3 feet. Deposit chips or ground woody material on embankment slopes or outside the roadway to a loose depth less than 6 inches.

(e) Removal to designated locations. Remove construction slash to designated locations.

(f) Placing Slash on Embankment Slopes. Place construction slash on completed embankment slopes to reduce soil erosion. Place construction slash as flat as practicable on the completed slope.

201-4.01 METHOD OF MEASUREMENT. Work described under this Section will not be measured for payment but shall be considered subsidiary to Item 203(3) Unclassified Excavation.

201-5.01 BASIS OF PAYMENT. Work described under this Section will not be paid for separately but shall be considered subsidiary to Item 203(3) Unclassified Excavation.

SECTION 203
EXCAVATION AND EMBANKMENT

Special Provisions

203-1.01 DESCRIPTION.

Linear grading shall consist of the final shaping of designated roads, turnouts, turnarounds, turnaround extensions, ditches and slopes for drainage by grading with a small dozer, motor grader, or other suitable means approved by the Engineer.

Ditch linear grading shall consist of the final shaping of designated ditches and slopes for drainage by grading with a small dozer, motor grader, or other suitable means approved by the Engineer.

203-2.01 MATERIALS.

7. Unclassified Borrow: Use unclassified borrow conforming to Subsection 703-2.17.

203-3.03 EMBANKMENT CONSTRUCTION.

Cut and fill slopes shall be constructed as shown on the drawings. Deposit material inside the roadbed limits or at designated locations. Do not restrict drainage.

Turnouts, Turnarounds and Turnaround Extensions: Additional turnouts and turnarounds may be required, as directed by the Engineer. Construct turnaround extensions as shown on the plans.

Road Embankment Construction and Linear Grading: Embankments shall be constructed in a similar manner to the road cross sections as shown on the Plans or as directed by the Engineer. Turnouts and turnarounds shall be constructed on the opposite side of the road when the road is adjacent to private ownership unless authorized by the Engineer.

Place rocks that are too large to be incorporated in the embankment outside the traveled way so that they will not roll, obstruct drainage, or hinder roadbed use and maintenance. Maximum boulder size cannot exceed half the depth of embankment layer**.** Large rocks may be used as backfill in deeper fills placed below the existing road surface, as approved by the Engineer.

Place material by side casting and end dumping to a minimum depth needed for operation of spreading and hauling equipment and minimum depths as shown on typical cross sections. Minimum embankment depth is 24 inches in all areas, unless otherwise approved by the Engineer. Construct solid embankments with adequate compaction by working smaller rock and fines in with larger rocks to fill the voids.

Produce and use suitable Unclassified Borrow (703-2.17) from approved sources, and remove and dispose unsuitable or excess material at the disposal site as shown on the plans, or as specified on Section 201.

Contour the excess or unsuitable material to form a natural appearance.

Operate loaded hauling and spreading equipment uniformly over full width of each layer to achieve adequate compaction of fill.

Do not encroach on stream channels, wetlands, or extend beyond right-of-way or easement limits. Do not make alignment or profile grade adjustments that adversely affect drainage.

Remove snow and ice in advance of the work and deposit beyond the roadway limits in a manner that will not waste material or generate sediment. Do not incorporate snow and ice in embankments. Place snow or ice in a manner that will prevent damage to soil and water quality.

Construct the roadbed within the following grading tolerances:

1. Alignment (centerline). Where the Drawings show a designed alignment, construct the road on alignment, except where otherwise authorized by the Engineer.

2. Profile grade. Where the Drawings show a designed profile, construct as shown, except where otherwise authorized by the Engineer

3. Use a crawler tractor with a dozer blade to shape and finish the roadbed. Provide for drainage of surface water, unless otherwise designated. Do not permit individual rocks in the roadbed to protrude more than 2 inches above the subgrade. A motor grader finish is not required, but the finished surface shall be uniform and well keyed in place.

203-4.01 METHOD OF MEASUREMENT.

9. Item 203(20). Measurement of linear grading will be measured for payment by the linear foot measured along the centerline, constructed and accepted by the Engineer.

10. Item 203(27A). Measurement of ditch linear grading will be measured for payment by the linear foot measured along the center of the ditch for each ditch so designated, constructed, and accepted by the Engineer.

203-5.01 BASIS OF PAYMENT. Large rock used for deeper fills below the existing roadbed surface shall be paid for as Unclassified Borrow. Payment for linear grading and ditch linear grading will be full compensation for furnishing equipment, labor, tools, and incidentals to provide the preparation, excavation and shaping necessary to complete the work.

Payment will be made under:

Pay Item No.	Pay Item	Pay Unit
203(5D)	Unclassified Borrow	Cubic Yard
203(20)	Linear Grading	Linear Foot
203(27A)	Ditch Linear Grading	Linear Foot

SECTION 204
STRUCTURE EXCAVATION FOR CONDUITS AND MINOR STRUCTURES

204-1.01 DESCRIPTIONS.

Excavate and backfill for conduits (pipe culverts, structural plate pipe, pipe arches, storm drains, underdrains, and electrical conduits), headwalls, manholes, inlet boxes, rock buttress, and other minor structures.

204-2.01 MATERIALS.

Bedding material shall meet the same requirements as the applicable lift of material. Do not place rocks larger than 6 inches in their largest dimension against culvert.

Control gradation by visual inspection and as reviewed and approved by the Engineer.

204-5.01 BASIS OF PAYMENT.

Item 204(1) Structure Excavation is subsidiary to Item 252(4) Rock Buttress.

SECTION 252

ROCK BUTTRESS

252.01 DESCRIPTION. For rock buttress, furnish rock and place it mechanically in cut and fill sections.

252.02 MATERIALS. Furnish material that conforms to specifications in the following subsections:

Riprap, Class IV 611-2.01

Control gradation by visual inspection. When shown on the Drawings, provide two samples of the specified class of rock. Each sample shall be at least 4.5 tons or 10 percent of the total rock weight, whichever is less. Provide one sample at the construction site, which may be a part of the finished rock covering. Provide the other sample at the quarry. Use these samples as a frequent reference for judging the gradation of the rock supplied. When specified in the Special Provisions, provide mechanical equipment at the sorting site and the labor needed to assist in checking gradation.

252-3.01 CONSTRUCTION REQUIREMENTS.

1. Placing Rock. Perform structure excavation work specified in Section 204, as required. Place the rock in a stable orientation with minimal voids. Offset the rock to produce a random pattern. Use spalls smaller than the minimum rock size to chock the larger rock solidly in position and to fill voids between the large rocks. Construct the exposed face of the rock mass to be reasonably uniform, with no projections beyond the neat line of the slope that are more than 18 inches, or as shown on the Drawings.

252-4.01 METHOD OF MEASUREMENT. By the calculated neat line volume.

252-5.01 BASIS OF PAYMENT. Structure excavation for rock buttress is subsidiary.

Payment will be made under:

Pay Item	Pay Unit
252(4) Rock Buttress	Cubic Yard

SECTION 603
CULVERTS AND STORMDRAINS

Special Provisions

603-1.01 DESCRIPTION. Drainage structures will conform to the Best Management Practices of the Alaska Forest Resources and Practices Act and Regulations (FRPA).

603-3.03 JOINING PIPE. When joining two pipes together, the minimum length of pipe to be joined shall be 6 feet and the pipe joint shall be a minimum of 4 feet inside the embankment from edge of slope to prevent joint deflection.

603-5.01 BASIS OF PAYMENT.

Payment will be made under:

Pay Item No.	Pay Item	Pay Unit
603(17-18)	18 Inch Pipe	Linear Foot
603(17-48)	48 Inch Pipe	Linear Foot

SECTION 641
EROSION, SEDIMENT, AND POLLUTION CONTROL

Special Provisions

641-1.01 DESCRIPTION. Work relating to control of erosion, sedimentation, and discharge of pollutants, according to this section, the Erosion and Sediment Control Plan (ESCP) located in Appendix A, and applicable local, state, and federal requirements, including the most current edition of the Alaska Forest Resources & Practices Act (FRPA) Regulations.

641-1.02 DEFINITIONS. These definitions apply only to Section 641.

Best Management Practices (BMPs). Temporary or permanent structural and non-structural devices, schedules of activities, prohibition of practices, maintenance procedures, and other management practices to prevent or minimize the discharge of pollutants to waters of the United States. BMPs also include, but are not limited to, treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from material storage.

Construction Activity. Physical activity by the Contractor, Subcontractor or utility company; that may result in erosion, sedimentation, or a discharge of pollutants into storm water. Construction Activity includes soil disturbing activities (e.g. clearing, grubbing, grading, excavating); and construction materials or equipment storage or maintenance (e.g. material piles, borrow area, concrete truck chute washdown, fueling); and other industrial storm water directly related to the construction process (e.g. concrete or asphalt batch plants).

Detailed Erosion Sediment Control Plan (DESCP). The Contractor's detailed project specific plan to minimize erosion and contain sediment within the Project Area, and to prevent discharge of pollutants that exceed applicable water quality standards. The DESCP includes, but is not limited to, amendments, records of activities, inspection schedules and reports, qualifications of key personnel, and all other documentation, required by the DESCP and this specification, and other applicable local, state, and federal laws and regulations.

Erosion and Sediment Control Plan (ESCP). The Department's project specific document (included in Appendix A) that illustrates measures to control erosion and sediment on the project. The ESCP provides bidders with the basis for cost estimating and guidance for developing the DESCP for use during the construction activity. The FLUP is a part of the ESCP.

Environmental Protection Agency (EPA). A federal agency charged to protect human health and the environment.

Forest Land Use Plan (FLUP). The Department's management plan for the project that contains information on the resources and proposed resource management activities such as

but not limited to location and type of surface waters, timber harvest and associated access activities (road's, sort yards, etc.).
https://aws.state.ak.us/OnlinePublicNotices/Notices/View.aspx?id=181388

Forest Resources and Practices Act and Regulations (FRPA). The Department's statutory authority for managing site conditions and the associated risks to water quality by non point pollution sources from forest operations. This is done through the use of best management practices as described in 11 AAC 95 or other Department approved methods.

Hazardous Material Control Plan (HMCP). The Contractor's project specific plan for prevention of pollution from storage, use, transfer, containment, cleanup, and disposal of hazardous material (including, but are not limited to, petroleum products related to construction activities and equipment).

Pollutant. Any substance or item meeting the definition of pollutant contained in 40 CFR § 122.2. A partial listing from this definition includes: dredged spoil, solid waste, sewage, garbage, sewage sludge, chemical wastes, biological materials, wrecked or discarded equipment, rock, sand, cellar dirt and industrial or municipal waste.

Project Area. The physical area provided by the Department for construction. The Project Area includes the area of the facility under construction, project staging and equipment areas, and material and disposal sites; when those areas, routes and sites, are provided by the Department by the Contract and are directly related to the Contract.

Support Activities including material sites, material processing sites, disposal sites, haul routes, staging and equipment storage areas; that are furnished by the Contractor or a commercial operator, are not included in the Project Area.

Records. Any record, report, information, document, or photograph required to be created or maintained pursuant to the requirements of FRPA, the Contract; and applicable local, state, and federal laws and regulations regarding document preservation.

Spill Prevention, Control, and Countermeasure Plan (SPCC Plan). The Contractor's detailed plan for petroleum spill prevention and control measures that meet the requirements of 40 CFR 112.

Spill Response Field Representative. The Contractor's representative with authority and responsibility for managing, implementing, and executing the HMCP and SPCC Plan.

Subcontractor Spill Response Coordinator. The subcontractor's representative with authority and responsibility for coordinating the subcontractor's activities in compliance with the HMCP and SPCC Plan.

Superintendent. The Superintendent has responsibility and authority for the overall operation of the Project and for Contractor furnished sites and facilities directly related to the Project.

Support Activities. Further defined as construction activities in which the Department is not an operator and the activity is outside the Project Area.

641-1.03 PLAN SUBMITTALS. For plans listed in Subsection 108-1.03.5 (HMCP and SPCC), use the Contractor submission and Department review deadlines identified in Subsection 641-1.03.

Partial and incomplete submittals will not be accepted for review. Any submittal that is re-submitted or revised after submission, but before the review is completed, will restart the submittal review timeline. No additional Contract time or additional compensation will be allowed due to delays caused by partial or incomplete submittals, or required re-submittals.

1. Detailed Erosion Sediment Control Plan (DESCP). Submit one hard copy of the DESCP to the Project Engineer for approval. Deliver this document to the Project Engineer at least 15 days before beginning Construction Activity. Organize and bind the DESCP and related documents for submittal according to the requirements of Subsection 641-2.01.2. The Department will review the DESCP submittals within 15 days after they are received. Submittals will be returned to the Contractor, and marked as either "rejected" with reasons listed or as "approved" by the Department. When the submittal is rejected, the Contractor must revise and resubmit the DESCP. The 15 day review period will restart when the contractor submits an electronic copy and a hard copy of the revised DESCP to the Project Engineer for approval.

2. Hazardous Material Control Plan. Submit the HMCP to the Project Engineer for approval at least 15 days before beginning construction.

3. Spill Prevention, Control and Countermeasure Plan. When a SPCC Plan is required under Subsection 641-2.03, submit two signed hard copies of the SPCC Plan to the Project Engineer. Deliver these documents to the Project Engineer at least 21 days before beginning Construction Activity. The Department reserves the right to review the SPCC Plan and require modifications.

4. FRPA Coverage. The Department is the authorizing agency for best management practices used within the project area. The Contractor is responsible for obtaining approval from the Department for Contractor and subcontractor Construction Activities related to the Project.

Do not begin Construction Activity until the conditions listed in Subsection 641-3.01.1 are completed.

641-1.04 PERSONNEL QUALIFICATIONS. The DESCP Preparer must meet at least one of the following qualifications:

a. Current certification as a Certified Professional in Erosion and Sediment Control (CPESC);

b. Current certification as AK-CESCL, and at least two years experience in erosion and sediment control. Provide documentation including project names, project timelines, and work responsibilities demonstrating the experience requirement; or

c. Professional Engineer registered in the State of Alaska with current certification as AK-CESCL

The Superintendent must meet the following qualifications:

a. Current certification as AK-CESCL.

The Department accepts people having any of the following certificates as equivalent to AK-CESCL, if the certificates are current according to the sponsoring organization's policies:

a. CPESC, Certified Professional in Erosion and Sediment Control; or
b. CISEC, Certified Inspector in Sediment and Erosion Control

641-1.05 RESPONSIBILITY FOR FRPA COVERAGE.

1. The Department and the Contractor are jointly responsible for complying with FRPA and FLUP Regulations within the Project Area.

2. The Contractor is responsible for permitting and permit compliance outside the Project Area for Support Activities. The Contractor has sole responsibility for compliance with other applicable federal, state, and local requirements, and for securing all necessary clearances, rights, and permits. Subsection 107-1.02 describes the requirement to obtain permits, and to provide permit documents to the Project Engineer.

3. An entity that owns or operates, a commercial plant (as defined in Subsection 108-1.01.4) or material source or disposal site outside the Project Area, is responsible for permitting and permit compliance. The Contractor has sole responsibility to verify that the entity has appropriate permit coverage. Subsection 107-1.02 describes the requirement to obtain permits, and to provide permit documents to the Project Engineer.

4. The Department is not responsible for permitting or permit compliance, and is not liable for fines resulting from noncompliance with permit conditions:

    a. For areas or Support Activities outside the Project Area and
    b. For commercial plants, commercial material sources, and commercial disposal sites.

641-2.01 DETAILED EROSION SEDIMENT CONTROL PLAN (DESCP) REQUIREMENTS.

1. DESCP Preparer. Use qualified personnel to develop the DESCP and associated documents to meet the requirements of the FRPA. The DESCP Preparer must put their name, qualifications (including the expiration date of any certifications), title and company name in the DESCP.

2. Developing the DESCP. Use the Department's ESCP and other Contract documents as a starting point for developing an approved DESCP. The Contractor's approved DESCP replaces the Department's ESCP.

Develop the DESCP framework according to the Departments ESCP outline with additional information as required.

Develop the DESCP according to this specification, and account for the Contractor's construction methods and phasing.

Design temporary BMPs for a 2 year 24 hour precipitation amount. Describe BMPs in the DESCP and in DESCP Amendments, including source controls, sediment controls, discharge points, and all temporary and permanent stabilization measures. Describe the design, placement, installation, and maintenance of each BMP, using words and drawings as appropriate. Provide a citation to the publication used as a source for the BMP, including the title of the BMP Manual or publication, the author (individual or agency), and date of publication. If no published source was used to select or design a BMP, then the DESCP or DESCP amendment must state that "No BMP manual or publication was used for this design."

Include BMPs in the DESCP that are specifically required by the Drawings and Specifications, such as seeding, silt fence, or special ditching.

Describe the sequence and timing of activities that disturb soils and of BMP implementation and removal. Phase earth disturbing activities to minimize unstabilized areas, and to achieve temporary or final stabilization quickly. Whenever practicable incorporate final stabilization work into excavation, embankment, and grading activities.

State in the DESCP that Inspections are conducted once every seven (7) days, and as required during continuous precipitation or sequential storm events.

The DESCP is a dynamic document. Keep the DESCP current by noting installation, modification, and removal of BMPs, and by using amendments, Inspection Reports, records of land disturbance and stabilization, and any other records necessary to document storm water pollution prevention activities and to satisfy the requirements of the FLUP and this specification. See Subsection 641-3.03 for more information.

3. Recording Personnel and Contact Information in the DESCP

Include in the DESCP, Records of the AK-CESCL cards or certificates for the Superintendent. If the Superintendent is replaced permanently or temporarily; record in the DESCP the names of the replacement personnel, the date of the replacement. For temporary personnel record their beginning and ending dates.

Provide 24 hour contact information for the Superintendent.

641-2.02 HAZARDOUS MATERIAL CONTROL PLAN (HMCP) REQUIREMENTS.

1. Prepare the HMCP using the DOT&PF template located at the following DOT&PF link; (http://www.dot.state.ak.us/stwddes/dcsconst/pop_constforms.shtml) for prevention of pollution from storage, use, containment, cleanup, and disposal of all hazardous material, including petroleum products related to construction activities and equipment. Compile Material Safety Data Sheets in one location and reference that location in the HMCP.

2. Designate a Contractor's Spill Response Field Representative with 24 hour contact information. Designate a Subcontractor Spill Response Coordinator for each subcontractor. The Superintendent and Contractor's Spill Response Field Representative must have 24-hour contact information for each Subcontractor Spill Response Coordinator and the Utility Spill Response Coordinator.

3. List and give the location and estimated quantities of hazardous materials (Including materials or substances listed in 40 CFR 117 and 302, and petroleum products) to be used or stored on the Project. Hazardous materials must be stored in covered storage areas. Include secondary containment for all hazardous material storage areas.

4. Identify the locations where fueling and maintenance activities will take place, describe the activities, and list controls to prevent the accidental spillage of petroleum products and other hazardous materials. Controls include placing absorbent pads or other suitable containment under fill ports while fueling, under equipment during maintenance or repairs, and under leaky equipment.

5. List the types and approximate quantities of response equipment and cleanup materials available on the Project. Include a list and location map of cleanup materials, at each different work site and readily available off site (materials sources, material processing sites, disposal sites, staging areas, etc.). Spill response materials must be stored in sufficient quantity at each work location, appropriate to the hazards associated with that site.

6. Describe procedures for containment and cleanup of hazardous materials. Describe a plan for the prevention, containment, cleanup, and disposal of soil and water contaminated by spills. Describe a plan for dealing with contaminated soil and water encountered during construction. Clean up spills or contaminated surfaces immediately.

7. Describe methods of disposing of waste petroleum products and other hazardous materials generated by the Project, including routine maintenance. Identify haul methods and final disposal areas. Assure final disposal areas are permitted for hazardous material disposal.

8. Describe methods of complying with the requirements of AS 46.04.010-900, Oil and Hazardous Substances Pollution Control, and 18 AAC 75. Include contact information for reporting hazardous materials and petroleum product spills to the Project Engineer and reporting to federal, state and local agencies.

641-2.03 SPILL PREVENTION, CONTROL AND COUNTERMEASURE PLAN (SPCC Plan) REQUIREMENTS. Prepare and implement an SPCC Plan when required by 40 CFR 112; when both of the following conditions are present on the Project:

a. Oil or petroleum products from a spill may reach navigable waters (as defined in 40 CFR 112); and

b. Total above ground storage capacity for oil and any petroleum products is greater than 1,320 gallons (not including onboard tanks for fuel or hydraulic fluid used primarily to power the movement of a motor vehicle or ancillary onboard oil-filled operational equipment, and not including containers with a storage capacity of less than 55 gallons)

641-2.04 RESPONSIBILITY AND AUTHORITY OF THE SUPERINTENDENT AND QUALIFIED PERSONNEL

The Superintendent is responsible for the overall operation of the Project and all Contractor furnished sites and facilities directly related to the Project.

The Superintendent may assign certain duties to qualified personnel.

1. Ensuring Contractor's and subcontractor's compliance with the FLUP;

2. Ensuring the control of erosion, sedimentation, or discharge of pollutants;

3. Directing and overseeing installation, maintenance, and removal of BMPs; and

4. Performing Inspections.

The Superintendent and qualified personnel shall be knowledgeable in the requirements of this Section 641, FRPA Regulations, FLUP requirements, BMPs, HMCP, and SPCC Plan.

The Superintendent and qualified personnel shall have the Contractor's complete authority and be responsible for suspending construction activities that do not conform applicable requirements.

641-2.04 MATERIALS. Use materials as needed to comply with FRPA and FLUP requirements suitable to withstand hydraulic, wind, and soil forces, and to control erosion and trap sediments according to the requirements of the Specifications.

641-3.01 CONSTRUCTION REQUIREMENTS. The Contractor shall comply with the requirements set forth in the ESCP, FRPA and FLUP as necessary to provide protection of important public resources and minimize significant adverse effects of soil erosion and mass wasting on water quality and fish habitat.

641-4.01 METHOD OF MEASUREMENT. Work required for generating and submitting the DESCP, HMCP and SPCC Plans will not be measured for payment but shall be considered subsidiary to the Contract. Any materials necessary to control erosion and trap sediments will be measured as specified in Section 109.

641-5.01 BASIS OF PAYMENT. Work required for generating and submitting the DESCP, HMCP and SPCC Plans will not be paid for separately but shall be considered subsidiary to the Contract. Any materials necessary to control erosion and trap sediments will be paid for under Section 800 (1) Interim Work Authorization.

SECTION 642
CONSTRUCTION SURVEYING

Standard Modifications

642-1.01 GENERAL. 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 and standard engineering and surveying practice.

Finish and install survey monuments and monument cases in conformance with the Plans or as directed.

Adjust existing monuments and monument cases to conform to the new elevations.

642–1.02 DEFINITIONS.

1. Monument: A fixed physical object marking a point on the surface of the earth, used to commence or control a survey; mark the boundaries of a parcel of land; or the centerline of right-of-way corridor. Monuments will be Primary or Secondary, as shown on the plans.

2. Surveyor: The Contractor's Professional Land Surveyor, currently registered in the State of Alaska.

3. Point: An identified spot located on the surface of the earth. For purposes of this definition, a point can be a PK nail, wooden hub, rebar, large nail or other structure capable of being utilized as a marker.

4. Reference Monument: A material mark or point placed at a known distance and direction from a property corner or other survey point, usually not on a property or survey line. A reference monument is employed to perpetuate a corner/point that cannot be monumented at its true location or where the corner monument is subject to destruction

642–2.01 MATERIALS.

1. Monument Cases: Use castings meeting AASHTO M 105, Class No. 30A. Coat castings with a bituminous dam-proof coating. Use tops that bear evenly on the frames.

2. Primary Monument: A minimum 2-inch diameter nonferrous pipe at least 30 inches long, with a minimum 4-inch flange at the bottom and having magnets attached at the top and bottom. A minimum 2-3/8 inch diameter nonferrous metal cap must be permanently attached to the top. Permanently stamp every monument with the Surveyor's registration number, the point/corner identification.

3. Secondary Monument: A minimum 5/8 inch rebar with a 2-inch aluminum cap attached to the top. Permanently stamp every secondary monument with the Surveyor's registration number, the point/corner identification.

642–3.01 GENERAL. Use competent, qualified personnel and suitable equipment for the layout work required and furnish traffic control, stakes, templates, straight-edges and other devices necessary for establishing, checking and maintaining the required points, lines and grades.

The Contractor will perform the following:

1. Cross sections necessary for determination of excavation and embankment quantities, including intermediate and/or remeasure cross sections as needed. Take cross sections after clearing and grubbing has been completed.

2. Survey of pay quantities that require measurement.

3. All other surveying and staking necessary to complete the project.

642-3.02 CROSS-SECTION SURVEYS. When required, obtain right-angle cross sections to the construction centerline at the interval detailed in the Department's Construction Surveying Requirements.

Perform the following:

1. Furnish hardbound field books (Level, Cross-Section, Slope Stake, etc.). Use "Rite-in-the-Rain" or similar weather resistant books. Field books become the property of the Department upon completion of the work.

2. Label the books and number the pages. Make a heading in the appropriate book (date, weather, names and duties of crew members) at the beginning of each day's work.

3. Update the index of the appropriate book at the end of each day's work.

4. Reduce, check, and adjust level notes.

5. The notekeeper shall compute the cross-section level notes and slope stake catches and a different crew member shall check the computation on a continual basis in the field.

6. Enter the grade data, shoulder width and/or ditch distance, stationing, slope, etc., in the slope stake books.

7. Maintain the position and identifying marks of slope stakes and reference points until used for their intended purpose.

8. Correct errors by drawing a line through them and writing the correct entry directly above.

Erasures are not allowed.

9. Return field books or copies of the field books to the Project office at the end of each work day or as directed.

10. Provide copies of grade sheets and temporary bench mark elevations to the Engineer 48 hours before beginning work on unclassified excavation or embankment.

11. Ensure that survey crews comply with approved traffic control plans. Coordinate crews activities with the Worksite Traffic Supervisor.

12. Keep a daily survey Party Chief diary, and give a copy of the diary to the Engineer each day. The diary shall contain the following information:

a. Date

b. Weather

c. Crew members' names and duties

d. Type and location of work performed

e. Hours worked

f. Type of equipment used (brand) and date equipment was double centered or "peg" test was performed

g. Signature of person in responsible charge

13. Submit the survey field notes for the specific area, relating to monument referencing, before beginning clearing, grubbing, or excavation.

642-3.03 MONUMENTS. Any monuments disturbed on the project will be replaced by the Contractor's Surveyor. The Surveyor must complete and stamp a State of Alaska Land Surveyor Monument Record form for each primary and secondary monument removed, installed, relocated, or replaced. Provide the required survey information on the form in accordance with statutory requirements, including section, township, and range. Meet requirements for recording at the District Recorder's Office in which the project is located for each monument record. Deliver conforming copies of the recorded forms to the Engineer before monument removal or disturbance and after setting any final monuments requiring monument records.

Set each monument and monument case accurately to lines established at the required location and in a manner as to ensure being held firmly in place. Set existing monuments and monument cases to be adjusted to new elevations in the manner and at the elevations directed.

642-3.04 OFFICE ENGINEERING. Calculate finish grades for the roadway as specified according to Plans and/or Specifications. Use information available in the field, on as-builts, or as provided by the Engineer. Perform the work by, or under the responsible charge of, a person registered in the State of Alaska as a Professional Land Surveyor or a Professional Engineer.

642-4.01 METHOD OF MEASUREMENT.

Item 642(1) Construction Surveying. No measurement of quantities will be made.

642-5.01 BASIS OF PAYMENT. Construction Surveying includes field and office work required to accomplish the work, including furnishing necessary personnel, equipment, transportation and supplies.

Traffic control devices necessary for the survey parties are considered subsidiary to Pay Item 642(1).

Payment will be made under:

Pay Item No.	Pay Item	Pay Unit
642 (1)	Construction Surveying	Lump Sum

SECTION 643
TRAFFIC MAINTENANCE

Special Provisions

643-1.01 DESCRIPTION.

The Contractor shall take reasonable and prudent measures to secure the site from vehicle use by the public during the contract.

Contractor shall coordinate with the Timber Harvest Purchaser to ensure reasonable access through the work areas for the Timber Harvest Purchaser and to coordinate temporary road closures with them and as approved by the Engineer.

643-4.01 METHOD OF MEASUREMENT.

All work described under this Section will not be measured directly, but shall be considered subsidiary to pay items 203(20) Linear Grading or 203(27a) Ditch Linear Grading.

643-5.01 BASIS OF PAYMENT.

All work described under this Section will not be paid for separately but shall be considered subsidiary to either pay item 203(20) Linear Grading or pay item 203(27a) Ditch Linear Grading.

SECTION 646
CPM SCHEDULING

Special Provisions

646-5.01 BASIS OF PAYMENT.

All work described under this Section will not be paid for separately but shall be considered subsidiary to pay item 640(1) Mobilization and Demobilization.

SECTION 703
AGGREGATES

Special Provisions

703-2.07 SELECT MATERIAL. "Aggregate" is defined as a fractured, angular, or crushed material, consisting of sound, tough, durable pebbles or rock fragments of uniform quality. Free from clay balls, vegetation, or other deleterious matters, and with no adherent films or coatings of dirt, clay, dust or other deleterious matter.

703-2.17 UNCLASSIFIED BORROW. Aggregate free of excess moisture containing no muck, frozen materials, roots, sod, or other deleterious material. Meeting the following properties:

(a) Maximum particle size 12 inches

(b) Well graded angular stone with a D50 of 3 inches or greater.

Control gradation by visual inspection and as reviewed and approved by the Engineer.

SECTION 800
INTERIM WORK AUTHORIZATION

Special Provisions

800-1.01 DESCRIPTION. Directive needed to continue work flow on extra work within the original scope of work negotiated between the owner's representative and the Contractor, additions to quantities listed in the current bid schedule with the contract agreed unit prices, and value engineering brought forth to the owner that is in the benefit of the Department.

800-2.01 MATERIALS. Directives are agreements from the Engineer to the Contractor that identify changes and additions of work necessary to complete the job.

800-3.01 GENERAL. This item is to help facilitate payment of changes before the change orders are complete through the Departments system.

800-4.01 METHOD OF MEASUREMENT. Section 109 and the following:
1. Contingent Sum. Authorized additions of existing unit prices item, agreed lump sum amounts, and possible addition of items not on the current bid schedule with agreed fair unit prices.

800-5.01 BASIS OF PAYMENT. Item 800(1) Interim work authorization.

Payment will be made under:

Pay Item No.	**Pay Item**	**Pay Unit**
800 (1)	Interim Work Authorization	Contingent Sum

APPENDIX A

1. Erosion and Sediment Control Plan for Vallenar Bay Access Road, Gravina Island, May 20, 2020

EROSION AND SEDIMENT CONTROL PLAN
For
VALLENAR BAY ACCESS ROAD
Gravina Island
5 / 20/ 2020

Estimated Project Dates
Start of Construction Upon Award
Completion of Construction 11 / 15/ 2020

State of Alaska DNR-DOF Area of Control: State of Alaska DNR-DOF is the land manager and contract manager for the project. The DNR-DOF has operational control over the project specifications and plans, including the ability to make changes to the project specifications. The DNR-DOF is represented on the job by the Project Engineer. The Project Engineer will do joint weekly inspections with the Contractor for the purpose of controlling water pollution. The power and duties associated with regulating and enforcing nonpoint pollution of forest operations is authorized and delegated to the Alaska Department of Natural Resources (ADNR) Division of Forestry (DOF) in the Alaska Forest Resources and Practices Act (FRPA) AS 41.17. The standard management practices identified in 11 AAC 95 are the sole enforcement mechanism for violations of water quality standards for forest operations. The project is the construction of forest road.

Contractor Area of Control: Contractor has day-to-day operational control of the project site including inspections, documentation, and application of the Best Management Practices at the site. Contractor is responsible for the maintenance and implementation of the Erosion Sediment Control Plan (ESCP). The ESCP shall be amended by the contractor as required to reflect the contractor's methods and means of construction and control of water pollution. The contractor's amended plan shall be referred to as the Detailed Erosion Sediment Control Plan (DESCP).

The Contractor shall use this Erosion and Sediment Control Plan (ESCP) as the framework to develop the DESCP. The Contractor shall adapt it to the work site's conditions with the approval of the Project Engineer to meet the Alaska Department of Environmental Conservation requirements for maintaining water quality.

Contractor Responsibilities:

- This ESCP as shall be amended by the Contractor to incorporate Hazardous Material Control Plans, Spill Prevention Control, and Countermeasure Plan, and any other modification the contractor determines is necessary to maintain water quality and called a Detailed Erosion Sediment Control Plan (DESCP).
- Contractor shall develop specific best management practices (BMP's) based on the contractor's actual schedule and construction methods. The ECSP is a general plan guiding the development of the contractor's DESCP.
- Contractor shall be responsible for maintaining compliance of the DESCP, including installation of erosion and sediment controls. Any BMP changes that would trigger the need for a DESCP modification shall be promptly communicated to DNR-DOF.
- Contractor will maintain erosion and sediment control BMPs in all areas of the project under its day-to-day control.
- Contractor will provide copies of inspection reports to DNR-DOF within 24 hours following each inspection. Incidents of non-compliance will be immediately brought to the attention of the DNR-DOF Project Engineer.

- The contractor shall provide trained personnel to implement the DESCP. The superintendent shall have current certification as an Alaska Certified Erosion Sediment Control Lead (AK-CESCL), and be knowledgeable in the implementation of erosion control in the area of operations.
- Contractor is responsible for advising employees and subcontractors working on this project of the requirements in the DESCP. Particular emphasis should be placed on ensuring that employees and subcontractors do not damage BMPs and do not introduce pollutants into any water body.

Environmental Information

1. Receiving Waters: See Forest Land Use Plan: "Vallenar Bay Timber Sale Access SSE-1345K".
2. Impaired Water bodies: None.
3. Total Maximum Daily Load (TMDL)Waters: none
4. Threatened and Endangered Species (ESA): None.
5. Historic Impacts: None
6. Migratory Bird Act: Clearing and Grubbing Activities between May 1 and July 15 may interfere with migratory birds. Refer to the US Fish and Wildlife Service for details.
7. Contact the Project Engineer with additional questions/concerns regarding environmental matters.

Erosion and Sediment Control Notes

1. The contractor shall provide protection from degradation to all waters on the project from their operations. Degradation of water quality is defined in 11 AAC 95.900 (19). "Degradation of water quality" means a decrease in water quality such that the affected waters are unable to fully maintain existing or designated uses; "degradation of water quality" does not include changes that are temporary, localized, and reparable decreases in water quality; in this paragraph
   (A) "reparable" means an effect on, or change to, a use or aquatic system due to a decrease in water quality that is reversible by natural processes such that the use or system will return to a state functionally identical to the original;
   (B) "temporary" means 48 hours or less with respect to existing uses

2. Retain a vegetative buffer strip in upland areas where ever possible. Vegetative buffer strips may be used in lieu of silt fence or other temporary devices provided they are sufficient width for the catchment area.

3. The contractor is expected to minimize the amount of disturbed area that is open to erosion at any one time.

4. All disturbed ground capable of supporting vegetation located within 100 feet of ordinary high water of fish bearing waters, tributaries to fish bearing waters or surface waters identified by the Project Engineer to be at significant risk to water degradation by the contractor's operations shall be stabilized to the Project Engineer's approval.

5. Temporary perimeter controls shall be installed for any erodible fill placed within 20 feet of ordinary high water of fish bearing waters, tributaries to fish bearing waters or surface waters identified by the Project Engineer to be at significant risk to water degradation by the contractor's operations.

6. Temporary perimeter control BMP's shall be identified and functional before any up gradient soil disturbance occurs.

7. Sediment control measures and temporary erosion control features shall be based on this document and the specific BMP's as contained in the ADOT&PF's manual "Contractor Guidance for Preparing and Executing Storm Water Pollution Prevention Plans" or other equal as approved by the Project Engineer.

8. Erosion and sediment control BMP's shall be installed within 14 days in areas where earthwork disturbance of erodible material has temporarily or permanently ceased.

9. Avoid conditions which promote concentrated flows. Install velocity control BMPs when concentrated flows occur.

10. Provide perimeter controls in areas shown on the plans as needed to prevent sediment from leaving the project area.

11. Slope protection may include slope roughening, mulching, tackifying, velocity control blankets, seeding, rock lining, or other methods approved by the Project Engineer.

12. All stockpiles of erodible materials shall have perimeter control in place.

13. Erodible material shall not be stockpiled within 100 feet of ordinary high water.

Assumed Construction Sequence

This is a linear project with limited access points; the contractor is expected to take action as needed and in a timely manner to control erosion. Erosion control is expected to be an ongoing process that is concurrent with other work.

1. Clear vegetation as required for current activity.
2. Implement ESCP.
3. Conduct excavation and grading.
4. Install structures.
5. Install final erosion sediment control.

Contractor Signature and certification

Insert Company Name
(To be signed by Responsible Corporate Officer)

I certify under penalty of law that this document and all attachments were prepared under direction of Insert Company Name in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Insert Company Name

Signature	Date
Print name	Title

APPENDICES

Appendix A–Forest Land Use Plan

Appendix B–BMP Details

Appendix C–Project Schedule

Appendix D–Supporting Documentation
-Forest Resources and Practices Act, Regulations and Definitions.

Appendix E–Not Used.

Appendix F– Not Used.

Appendix G– Not Used.

Appendix H–Personnel Qualifications and Training Certificates for:

- DESCP Preparer
- Project Superintendent

Appendix I– DESCP Pre-Construction Site Visit Reports

Appendix J–Not Used

Appendix K–Not Used

Appendix L–Not Used

Appendix M–Hazardous Material Control Plan/Spill Prevention Countermeasure Plan

Appendix N–Not Used

Appendix O–Not Used

Appendix P–Inspection Reports

Appendix A–Forest Land Use Plan and Site Maps

The Draft Forest Land Use Plan and maps for the Vallenar Bay Access SSE-1345 K can be found at: https://aws.state.ak.us/OnlinePublicNotices/Notices/View.aspx?id=181388
This section shall represent the most current forest land use plan in effect for the area of operations.

Appendix B–BMP Details added by the Contractor.

Appendix C-Project Schedule

Appendix D–Supporting Documentation

Alaska Forest Practices Act and Regulations Required Practices

Note: This is an excerpt from the Alaska Forest Practices Act and Regulations (FRPA). This project shall follow the all current requirements of the FRPA. The current FRPA may be found at http://forestry.alaska.gov/statutes.htm. These requirements are the minimum required by State law. For clarity of intent, sections of FRPA have been omitted that are regionally or by the nature of the work being performed as not applicable.

All roads shall be built to the FRPA standard best management practices unless site specific erosion and sediment control design has been approved by the project engineer as the representative of the Division of Forestry. The FRPA Standard Best Management Practices, the State Standard Highway Contract, the Special Provisions and the Civil Construction Plan for Vallenar Bay Road convey the intent of the Division of Forestry. In the event of a conflict between documents, the project engineer will determine the order of precedence.

Italics indicate an edit or note regarding the regulation.

Standard Best Management Practice Requirements

11 AAC 95.265. Classification of surface water bodies. (a) (a) Classification of surface water bodies by an operator or by an agency must be made.

Classification of known surface water bodies has been made by the agency.

They are documented in the Forest Land Use Plan titled:

Access of the Vallenar Bay Timber Sale SSE-1345 K.

11 AAC 95.275. Uses within a riparian area. (a) The following operations are allowed within a riparian area without the necessity of obtaining a variation under AS 41.17.087:

(1) road building and associated activities performed in accordance with 11 AAC 95.285(b);

(2) a water body crossing built in accordance with 11 AAC 95.300;

(3) felling and removal of hazardous trees along roadways as required by state or federal law;

(4) *omitted and not applicable to this project (3/26/2015)*;

(5) installation of blocks, or similar devices on a tree required for retention under this chapter if the device is installed to minimize damage to the tree;

(6) the use, as lift trees or tail holds, of trees required for retention under this chapter;

(7) the hanging of rigging through the riparian area if necessary to be consistent with operator safety requirements and to have a clear line of sight and working area for the rigging;

(8) in the case of a riparian area on land identified in AS 41.17.118 and 41.17.119 only, yarding corridors and other logging methods that do not cause a significant adverse impact to the riparian habitat.

(b) The operations identified in (a)(1), (2), and (4) of this section *shall be identified in the FLUP* and comply with AS 41.17 and this chapter.

(c) The felling of trees identified in (a)(3) of this section need not be identified in the *FLUP* or comply with AS 41.17 and this chapter.

(d), (e) and (f) *omitted and not applicable to this project (3/26/2015)*;

(g) Activities described in this section that are conducted within a riparian area must be done in compliance with the slope stability standards of 11 AAC 95.280(d).

11 AAC 95.280. Slope stability standards. (a) *omitted and not applicable to this project (3/26/2015).*

(b) The slope stability standards apply within 100 feet of an ordinary high water mark of an anadromous or high value resident fish water body, or a water body with a gradient of 12 percent or less that is tributary to an anadromous or high value resident fish water body, and within 50 feet of all other tributaries to anadromous and high value resident fish water bodies.

(c) The break of a slope is the point where the slope extending up from the top of the stream bank changes to the lower angle slope of the adjacent upland. For purposes of measurement, the break of a slope is where the degree of slope is reduced by 20 percent or more when measured away from the stream.

(d) An operator shall adhere to the following standards when conducting construction activity in an area identified in (b) of this section:

(1) avoid constructing a road that will undercut the toe of a slope that has a high risk of slope failure;

(2) omitted and not applicable 3/26/2015.;

(3) achieve full or partial suspension in yarding operations;

(4) fall timber away from streams in V-notches; and

(5) avoid sidecasting of displaced soil from road construction to the maximum extent feasible.

Article 3. Road construction

11 AAC 95.285. Road location.

(a) *omitted and not applicable to this project (3/26/2015).*

(b) A road may not be located in a riparian area except where access is needed to a water body crossing, or where there is no feasible alternative. A stream crossing or a road in any riparian area must be designed and located to minimize significant adverse effects on fish habitat and on water quality.

11 AAC 95.290. Road construction. (a) When constructing a forest road on a slope, an operator, where feasible, shall avoid locating a road on a slope greater than 67 percent or on an unstable slope. If avoiding that slope is not feasible, site-specific measures must be planned to address slope instability due to road construction. The measures must be approved by the division and must meet the requirements of (b) of this section.

(b) If constructing a road on a slope greater than 67 percent or on an unstable slope is necessary, an operator

(1) may not bury any of the following material except as puncheon across swampy ground or for culvert protection:

(A) a log chunk of more than five cubic feet in volume or a loose stump, in the load-bearing portion of a road;

(B) any significant amount of organic debris within the load-bearing portion of a road;

(C) excessive accumulation of debris or slash in the road-bearing portion of a road fill;

(2) shall balance cuts and fills so that as much of the excavated material as is feasible is deposited in the roadway fill section; however, unstable fill material may not be used, and cuts must be minimized where fine textured soils are known or encountered; and

(3) may not conduct excavation and blasting activities during saturated soil conditions if mass wasting is likely to result and cause degradation of surface or standing water quality.

(c) To prevent or minimize sedimentation, an operator shall treat unstable soils with effective and appropriate erosion control measures such as grass seeding, erosion control mats, or end-hauling of materials.

(d) An operator shall use end-hauling and full-bench construction techniques if mass wasting from overloading on an unstable slope or erosion of sidecast material is likely to occur and cause degradation of surface or standing water quality.

(e) Notwithstanding the provisions of 11 AAC 95.355, when constructing a forest road, an operator shall, where feasible, fell trees away from fish-bearing surface waters and from standing waters, and shall fell trees away from other surface where feasible and if necessary to avoid degradation of water quality. An operator shall comply with the following standards when constructing a forest road:

(1) an operator may not fell a tree into anadromous fish waters catalogued under AS 16.05.871 without prior written approval of the Department of Fish and Game;

(2) if a tree is felled into fish-bearing waters not catalogued under AS 16.05.871, the operator shall remove the limbs and other small debris within 48 hours, and shall remove the bole as soon as the necessary equipment is at the site;

(3) if a tree is felled into nonfish-bearing surface waters and standing waters, the operator shall remove debris at the earliest feasible time when necessary to avoid degradation of water quality.

(f) *omitted and not applicable to this project (3/26/2015).*

(j) Spoil, waste, and overburden that is generated during construction and not sidecasted shall be deposited in a suitable upland site stabilized by effective and appropriate erosion control measures. Disposal must also meet the standards set out in 11 AAC 95.325, 11 AAC 95.815, and 18 AAC 60.

(k) Where feasible, the running surface of a road must use material that will minimize erosion of the road surface and prevent degradation of water quality.

(l) A person may not operate construction equipment or machinery in

(1) an anadromous fish water catalogued under AS 16.05.871 without written approval of the Department of Fish and Game, or

(2) any other surface waters, without prior notice to the division.

11 AAC 95.295. Road drainage. (a) This section sets out the drainage standards that apply to a forest road.

(b) An operator shall minimize the erosion of a road bed, cut bank, and fill slope through the use of cross drains, ditches, relief culverts, bridges, water bars, diversion ditches, or other structures demonstrated to be effective. These drainage structures shall be installed at all natural drainages and must be spaced at least as frequently as set out in the following table:

SPACING OF DRAINAGE STRUCTURES (in feet)

PERCENT OF GRADE

REGION I

0 to 2	Meet other standards of this section	
2 to 7	1,000	1,500
8 to 15	800	1,000
Over 15	600	800

More frequent drainage structure spacing or other drainage improvements must be used where site-specific conditions of peak flows or soil instability makes additional drainage structures necessary to prevent degradation of standing or surface water quality. Less frequent drainage spacing is permissible if the parent material of the roadway is not erodible, such as rock or gravel; the topography or other local conditions are not conducive to erosion; or the degradation of surface or standing waters is not likely to occur.

(c) During road construction, an operator shall install the appropriate ditches, culverts, cross drains, drainage dips, water bars, and diversion ditches when the natural drainage is crossed with the roadbed material.

(d) A road shall be outsloped or ditched on the uphill side.

(e) In the event an incomplete road is left over the winter season or other extended period, an operator shall, before suspending operations, provide adequate interim drainage by outsloping or cross draining the road, or by the use of water bars and diversion ditches.

(f) An operator shall to the extent feasible direct ditchline water away from unstable soils and surface waters, and onto vegetated areas.

(g) To minimize sedimentation of standing and surface waters, marshes, and non-forested muskegs caused by drainage from road surfaces and ditches, an operator shall use measures such as settling basins, cross drains, or vegetated areas.

(h) A relief culvert installed on a forest road must be at least 18 inches in diameter or the equivalent capacity, and be installed sloping toward the downslope edge of the road at a minimum gradient of three percent.

(i) A cross drain, relief culvert, or diversion ditch may not discharge onto erodible soil or over fill slopes unless adequate outfall protection is provided and slope stability is ensured.

(j) A drainage structure must also comply with the directional and placement requirements of 11 AAC 95.305.

11 AAC 95.300. Bridge standards. (a) An operator shall install a bridge on a forest road according to the following standards:

(1) *omitted and not applicable to this project (3/26/2015)*;

(2) *omitted and not applicable to this project (3/26/2015)*;

(3) an earth embankment constructed for use as a bridge approach must be protected from erosion by using planted or seeded ground cover, bulkheads, rock riprap, retaining walls, or other equally effective means;

(4) *omitted and not applicable to this project (3/26/2015)*;

(5) *omitted and not applicable to this project (3/26/2015)*;

(6) a bridge must be installed to provide fish passage in accordance with AS 16.05.841;

(7) *omitted and not applicable to this project (3/26/2015)*;

(8) a bridge must be installed in such a way as to minimize disturbance to the bed and banks of a stream.;

(b) In addition to the requirements of (a) of this section, when installing a new bridge or replacing an existing bridge on a forest road that crosses anadromous fish waters, the installation must be in accordance with the standards set out in (c) of this section. In anadromous fish waters catalogued under AS 16.05.871, an operator may not cross the water body with equipment, install a bridge or conduct excavation for bridges, place sills or abutments, or place stringers or girders within the ordinary high-water marks without prior written approval from the Department of Fish and Game. If prior written approval is required by the Department of Fish and Game under AS 16.05.871, an operator shall comply with that department's requirements instead of the standards of (c) of this section.

(c) When installing a bridge over anadromous waters that have not been catalogued under AS 16.05.871, an operator shall:

(1) *omitted and not applicable to this project (3/26/2015)*;

(2) *omitted and not applicable to this project (3/26/2015)*;

(3) *omitted and not applicable to this project (3/26/2015)*;

(4) schedule bridge building activity to occur during a period that will avoid or reduce adverse impact on fish; and

(5) *omitted and not applicable to this project (3/26/2015)*.

(d) An operator may not narrow an anadromous stream between its ordinary high water marks.

11 AAC 95.305. Culverts and other water crossing provisions. (a) An operator shall install a culvert on a forest road according to the following standards:

(1) *omitted and not applicable to this project (3/26/2015)*;

(2) *omitted and not applicable to this project (3/26/2015)*;

(3) for fish-bearing waters, the entrance, to the extent possible, and exit of a stream culvert must match the natural course of a stream channel; a culvert may not be perched at its inlet or outlet.

(4) a culvert must terminate on material that will not readily erode, such as riprap, the original streambed if stable, or other suitable materials;

(5) a change may not be made in the course or channel of anadromous fish waters catalogued under AS 16.05.871 without giving notice to the division and receiving written approval of the Department of Fish and Game; a change may not be made in the course or channel of other waters that are significant for protection of downstream water quality, without prior notice to the division;

(6) when a flume, downspout, downfall culvert, or similar structure is used to protect fill slopes or to return water to its natural course, the discharge point shall be protected from erosion by

(A) reducing the velocity of the water;

(B) using rock spillways, riprap, or splash plates; or

(C) using equally effective methods or structures;

(7) for nonfish-bearing waters, the area of a stream bed from a culvert inlet to 50 feet upstream from the culvert inlet must be cleared of mobile slash or debris that may be expected to plug a culvert;

(8) to prevent or minimize sedimentation, the entrance of a relief culvert must have adequate and appropriate catch basins, consistent with physical features of the ground; a headwall must be used to direct ditch water into cross drains;

(9) a culvert must be of sufficient length to prevent road overlay materials from blocking an end of the culvert.

(b) *omitted and not applicable to this project (3/26/2015)*;

11 AAC 95.315. Road maintenance. (a) For purposes of the road maintenance requirements of this section, a landing is considered part of a road.

(b) An operator shall conduct the following maintenance on an active road:

(1) keep culverts, flumes, and ditches functional;

(2) if a settling basin is used, keep an adequate reserve volume; sediment removed from a settling basin during maintenance operations must be deposited in a location where it is not likely to enter nearby surface waters;

(3) perform road surface maintenance as necessary to minimize erosion of the surface and the subgrade;

(4) during operations, keep the road surface crowned or outsloped, and keep the downhill side of the road free from berms except those intentionally constructed for protection of fill;

(5) when grading on a nonrock-decked bridge, minimize the deposit of road surface material on the bridge surface; and

(6) when grading on a rock-decked bridge, avoid pushing material over the rub rails or through gaps in the bridge surface.

(c) An operator or forest landowner shall conduct the following maintenance on an inactive road:

(1) as soon as feasible following termination of active use, keep ditches and drainage structures maintained as necessary to assure water flow and fish passage;

(2) keep the road surface crowned, outsloped, water barred, or otherwise left in a condition not conducive to erosion; and

(3) except as provided in (d) of this section, keep ditches and drainage structures clear and in good repair.

(d) An operator or forest landowner is not subject to the penalties or liable for the monetary damages under AS 41.17 for any damage occurring from a condition brought about by public use of a road, unless an operator or forest landowner fails to make repairs under a directive of the division.

(e) If necessary to prevent significant degradation of surface water quality or fish habitat, the division will, in its discretion, require an operator or forest landowner to perform the following activities:

(1) install additional or larger culverts or other drainage improvements as determined necessary by the division;

(2) provide additional road maintenance;

(3) *omitted and not applicable to this project (3/26/2015)*; and

(4) rehabilitate unstable or erodible exposed soils by a suitable method to minimize siltation of surface waters.

11 AAC 95.325. Material extraction and disposal sites. (a) If feasible, an operator must verify that suitable material is present at a proposed extraction site before stripping the entire site of surface soils. A material extraction site must be located in an area

(1) that is outside surface waters, standing waters, and marshes;

(2) that is outside non-forested muskegs, except with prior notice to the division;

(3) with a low risk of siltation to surface water;

(4) where the risk of causing significant harm to fish habitat through soil erosion and mass wasting is minimal;

(5) where there is adequate and appropriate sediment filtering vegetation or equivalent treatment;

(6) that is outside a riparian area unless inside a riparian area is authorized by the division; a material extraction site located in a braided, glacial flood plain may be subject to AS 41.14; and

(7) that will not cause hydrologic changes such as dewatering a stream.

(b) An operator shall locate an area to deposit material extraction site overburden and end hauling material

(1) that is outside surface waters, standing waters, marshes, and non-forested muskegs;

(2) with a low risk of siltation to surface water;

(3) where the risk of causing significant harm to fish habitat through soil erosion and mass wasting is minimal;

(4) where there is adequate and appropriate sediment filtering vegetation or equivalent treatment; and

(5) that is outside a riparian area.

(c) During the construction and use of a material extraction site or a soil disposal site, runoff water must either be diverted onto the forest floor or intercepted and passed through one or more settling basins. When a settling basin is used, it must be maintained to have an adequate reserve volume. Sediment removed from a settling basin during a maintenance operation must be deposited in a location where it is not likely to enter any nearby surface waters.

(d) An operator shall rehabilitate a material extraction site or a soil disposal site after the material source is exhausted or abandoned, or operations at the disposal site are completed. Within the first growing season after abandonment of an extraction site or completion of disposal operations, an operator shall

(1) remove and place in a stable location all material that has potential for entering surface or standing waters, or that would prevent reforestation of an otherwise plantable area; and

(2) where necessary to prevent erosion, stabilize a disposal site and all exposed erodible soils by

(A) revegetation with grass, clover, ground cover, or, if possible, native ground cover;

(B) compacting, rip rapping, water barring, benching, or mulching; or

(C) other means required by the division.

(e) If degradation of water quality occurs due to erosion from an abandoned material extraction or disposal site, the forest landowner, the operator, or the person responsible for creating the condition, must correct the problem.

11 AAC 95.330. Rehabilitation after mass wasting. (a) Where mass wasting is caused by operations, the operator shall, to the extent feasible, take effective and appropriate measures to stabilize the slide path and all associated exposed soils, such as grass seeding, erosion control mats, excavation of the head wall to the angle of repose, placement of ballast to control mass wasting, or other effective slope stabilization method.

(b) The division will, in its discretion, require an operator to remove debris from surface waters impacted by mass wasting, to the degree necessary to restore water quality or fish habitat.

(c) Ditchline water must be directed away from mass wasting and into vegetated areas.

11 AAC 95.335. Blasting standards. (a) A person may not discharge an explosive in the following areas without first obtaining a variation under 11 AAC 95.235:

(1) Type I-A or Type I-B stream riparian areas in Region I;

(b) During blasting, an operator shall minimize the amount of flyrock materials deposited into fish-bearing waters.

11 AAC 95.810. Measurement of distances. When a distance is specified in AS 41.17 or this chapter, the following applies:

(1) the distance measured must be horizontal distance rather than slope distance;

(2) the distance from a tidal zone is measured from the line of mean higher high water mark; and

11 AAC 95.815. Disposal of waste material. (a) A petroleum product may not be disposed of onto land or into waters.

(b) Waste material, such as crankcase oil, fuel, grease, filters, hydraulic fluid and their containers, machine parts, wire rope, oil-contaminated soils, scrap culverts, or similar scrap wastes resulting from forest operations, must be disposed of in accordance with 18 AAC 60 and 18 AAC 62.

(c) Petroleum products and waste material as identified in this section must be handled in a manner that does not violate the water quality standards of 18 AAC 70.

11 AAC 95.900. Definitions. In this chapter, unless the context specifically states otherwise:

(1) **"active road"** means a forest road being actively used for hauling logs, pulpwood, chips, or other major forest products, or rock and other road building materials;

(2) **"agencies"** means the Department of Fish and Game, the Department of Environmental Conservation, and the Division of Forestry within the Department of Natural Resources;

(3) **"agency"** means the Department of Fish and Game, Department of Environmental Conservation, or the Division of Forestry within the Department of Natural Resources;

(4) **"angle of repose"** means the angle at which a cut or fill slope will stand naturally;

(5) **"appropriate"** means warranted in light of potential effects on public resources;

(6) **"approved device"** includes conventional and portable stoves, fireplaces, and incinerators with adequate safeguards to prevent escapement of fire;

(7) **"bedrock"** means solid rock or accumulation of material more than three feet in diameter that predominate within a streambed or streambank;

(8) **"burning"** includes setting fires and excludes smoking;

(9) *omitted and not applicable to this project (3/26/2015)*;
(10) *omitted and not applicable to this project (3/26/2015)*;
(11) **"commercial tree species"** means any species that is capable of producing a merchantable stand of timber on a particular site or is being grown as part of a Christmas tree or ornamental tree-growing operation;

(12) **"commissioner"** means the commissioner of natural resources or the commissioner's authorized designee;

(13) **"conversion"** means a bona fide land use conversion to a use that is incompatible with timber growing;

(14) **"cribbing"** means brush, small poles, or small diameter logs used to increase the structural integrity of a snow ramp or ice bridge;

(15) **"cross drain"** means a cross ditch used to move water from one side of a road to the other to prevent accumulation of runoff without the need of a culvert or bridge;

(16) **"crowned"** means the running surface of a road is made higher in the center to direct runoff away from the centerline and into roadside ditches;

(17) **"DBH"** means the diameter of a tree at breast height (commonly four and one-half feet);

(18) **"debris"** means woody vegetative residue less than four inches in diameter and less than three feet in length resulting from a forest practice operation;

(19) **"degradation of water quality"** means a decrease in water quality such that the affected waters are unable to fully maintain existing or designated uses; "degradation of water quality" does not include changes that are temporary, localized, and reparable decreases in water quality; in this paragraph

(A) "reparable" means an effect on, or change to, a use or aquatic system due to a decrease in water quality that is reversible by natural processes such that the use or system will return to a state functionally identical to the original;

(B) "temporary" means 48 hours or less with respect to existing uses;

(20) **"department"** means the Department of Natural Resources;

(21) **"designated uses"** means those protected water uses specified in 18 AAC 70.020 for each water body or segment of a water body;

(22) **"division"** means the division of forestry in the department;

(23) **"end hauling"** means the removal and transportation of excavated material, pit or quarry overburden, or landing or road cut material from an excavation site to a deposit site not adjacent to the point of removal;

(24) **"erodible soils"** means soils exposed or displaced by a forest practice operation and soils that would be readily moved by the erodible force of moving water;

(25) **"estuarine area"** means that area at the mouth of a Type I-A, II-A, II-B, II-C, or II-D stream where fresh and salt water mix; the landward extent of an estuary is the limit of salt-tolerant vegetation, and the seaward extent is a stream's delta at mean lower low water;

(26) **"existing uses"** means those uses actually attained in a water body on or after November 28, 1975;

(27) **"fall"** means a free fall or precipitous descent of water or a fast white water cascade;

(28) **"fatally damaged tree"** means a tree that is damaged to the extent that it is unlikely to survive; breakage of limbs or tips, bark scrapes, or notching of a tree for tail holds does not constitute fatal damage as long as the tree is likely to survive;

(29) **"feasible"** means capable of being accomplished in a successful manner within a reasonable period of time, taking into account economic, environmental, technical, and safety factors;

(30) **"first entry"** means the initial period of entry during a rotation or cutting cycle;

(31) **"fish-bearing waters"** means waters containing anadromous or high-value resident fish at any time

during the year;

(32) **"forest practices forester"** means the field person assigned by the commissioner to implement AS 41.17;

(33) **"full suspension"** means lifting the load completely clear of the ground, including obstacles;

(34) **"gravel"** means streambed and streambank material ranging in size from 0.16 inches to 2.5 inches in diameter;

(35) **"half holiday"** means an agency office is closed a portion of a day for circumstances beyond the control of the agency;

(36) **"inactive road"** means a forest road on which commercial hauling is discontinued for one or more logging seasons, and the forest landowner desires continuation of access for fire control, forest management activities, occasional or incidental use for forest products harvesting, or similar activities;

(37) **"incised channel"** means a channel having banks that, when viewing a vertical cross section through the water body, are sharply angular or perpendicular to water flow, are capable of containing the flow of the stream at annual high water, and in which the top of the embankment is at least six feet above the water surface during normal flow;

(38) **"infestation"** means attack and invasion by macroscopic organisms in considerable concentration;

(39) **"lake or pond"** means

(A) a confined fresh water body with perennial water, defined shorelines, and an identifiable inlet and outlet; and

(B) a confined fresh water body with perennial standing water and defined shorelines, and without an identifiable inlet or outlet, if the water body contains a population of anadromous or high value resident fish;

(40) **"landing"** means the location where logs are deposited by yarding or skidding equipment, including helicopters;

(41) **"load-bearing portion"** means that part of a road, landing, or other surface that consists of supportive soil, earth, rock, or other material directly below the working surface and the associated earth structure necessary for support of a part of a road;

(42) **"low value"** has the meaning given in AS 41.17.116(d)(1);

(43) **"marsh"** means a frequently or continually inundated area of saturated soils characterized by emergent reeds, grasses, and sedges;

(44) **"mass wasting"** means the slow to rapid downslope movement of significant masses of earth material of varying water content, primarily under the force of gravity;

(45) **"material"** means the same as in 11 AAC 71.910;

(46) **"material extraction site"** means an excavation site outside the limits of construction where material necessary for that construction, such as fill material, are extracted;

(47) **"mean higher high water mark"** means, for estuaries, an elevation below which the presence of marine water is so common and of sufficient duration as to prevent establishment of forest floor mosses and other salt-intolerant vegetation;

(48) **"mineral soil"** means a soil containing insufficient organic material to sustain fire;

(49) **"minimize"** means to limit to the extent feasible, and does not include the requirement of improving naturally existing conditions;

(50) **"non-forested muskeg"** means an expanse of saturated, poorly drained soil, including a swamp or bog, that is characterized by accumulation of peat or partially decayed plant matter, has no significant inflows or outflows, supports acidophilic mosses, and is not stocked with trees;

(51) **"normal channel flow conditions"** means that a stream's discharge is approximating mean flow as determined by a nonquantitative field assessment; this condition would usually occur no earlier than 2 days after a significant rain event; this condition would not occur during active snow melt, a distinct drought period, freeze up, or any other extraordinary conditions;

(52) **"operation"** means the same as in AS 41.17.950; except that in 11 AAC 95.340 -- 11 AAC 95.390, "operation" also includes land clearing activities on forest land;

(53) **"ordinary high water mark"** or "OHWM" means the mark along the bank or shore up to which the presence and action of the tidal or nontidal water are so common and usual, and so long continued in all ordinary years, as to leave a natural line impressed on the bank or shore and indicated by erosion, shelving, changes in soil characteristics, destruction of terrestrial vegetation, or other distinctive physical characteristics;

(54) **"organic mat"** means the dead and living layer of plant material that has accumulated over time on the surface of the mineral soil;

(55) **"outsloping"** means to shape the running surface of a road in a manner that carries runoff to the downslope side of the road; "outsloping" is used for roads without roadside ditches;

(56) **"partial cut"** means tree removal other than a clear cutting, such as removing only part of a stand;

(57) **"permanent,"** when used to describe a road, or when used to describe a bridge, culvert, or other crossing structure, means a road or structure that will be left in place for at least seven years from the date of original construction;

(58) **"physical blockage"** means a natural feature or an authorized artificial structure that prevents upstream migration of fish, including a presumed physical blockage under 11 AAC 95.265(g)(4);

(59) **"presence or evidence of anadromous fish"** means the documented occurrence of live anadromous fish, eggs, or their remains;

(60) **"project"** means

(A) for private and other public land as defined under AS 41.17.950, a detailed plan of operation as described under 11 AAC.95.220,

(B) for state land, an activity or use under a forest land use plan adopted under the authority of AS 38.05.112; and

(C) an activity subject to federal consistency review under 33 U.S.C. 1329 (Clean Water Act,

sec. 319), as amended February 4, 1987;

(61) **"prudent"** has the meaning given in AS 41.17.116 (d)(2);

(62) **"puncheon"** means a slab of timber used for flooring or footing, or woody material used as a mat in overlay road construction;

(63) **"reforest"** means the successful reestablishment of commercial tree species following harvest;

(64) **"Region I," "Region II," and "Region III"** have the meanings given in AS 41.17.950.

(65) **"rehabilitate"** means to control and stabilize erodible material to the extent feasible, through construction of a control structure, revegetation, or another method;

(66) **"relief culvert"** means a structure to relieve surface runoff from roadside ditches to prevent excessive buildup in water volume and velocity;

(67) **"residual trees"** means commercial tree species left standing in a harvest unit or other specified area after completion of harvest or, for purposes of 11 AAC 95.375, immediately before beginning reforestation activities in that unit or area;

(68) **"road reconstruction"** means the process of making an inactive or closed road useable, including reinstalling drainage structures, removing vegetation, and resurfacing;

(69) **"rubble"** means streambed or streambank material ranging in size from 2.5 inches to 3 feet in diameter;

(70) **"sand"** means streambed or streambank material with a diameter of 0.1 mm to 0.4 mm;

(71) **"sapling"** means a live tree 1.0 inch to 5.0 inches in DBH;

(72) **"saturated soil"** means soil that has all of its voids completely filled with water, to the point where the addition of any further water will result in a rising surface water table;

(73) **"seedling"** means a live tree less than 1.0 inches in DBH, or under 10 feet tall;

(74) **"sidecasting"** means the act of moving excavated material to the side and depositing that material within the limits of construction or dumping it over the side and outside the limits of construction;

(75) **"silt"** means streambed or streambank material with a diameter of less than 0.1 mm;

(76) **"skid trail"** means a route used by tracked or wheeled skidders to move logs to a landing or road;

(77) **"slash"** means pieces of woody vegetative residue greater than five inches in diameter or longer than three feet in length resulting from a forest practice operation;

(78) **"spoil"** means excess material removed as overburden or generated during road or landing construction that is not used within the limits of construction;

(79) **"spring"** means a place where subterranean water naturally flows from a rock or soil upon the land or into a body of surface water;

(80) **"standing water"** means a water body, one half acre or larger, that has defined banks but no surface outlet;

(81) **"state forester"** means the same as in AS 41.17.020 and, for the purposes of administering this chapter, includes division employees to whom the state forester has delegated responsibility for carrying out AS 41.17 and this chapter;

(82) **"stream"** means a perennial flow of water along a defined channel, or an intermittent flow of water along a defined channel that is significant for protection of downstream water quality;

(83) **"substantial factor"** means a proximate or direct cause among two or more causes operating to bring about or give rise to an injury and that is a cause which reasonable persons would regard as a basis for responsibility for that injury;

(84) **"surface waters"** means fresh water springs, lakes, or ponds, or a freshwater stream the designated uses of which are protected under 18 AAC 70, regardless if those waters are classified under AS 41.17.950(31) – (41);

(85) **"temporary,"** when used to describe a road, or when used to describe a bridge, culvert, or other stream crossing structure, means a road or structure that will be left in place for a period of less than seven years from the date of original construction;

(86) **"timber"** means merchantable trees, standing or down, of a commercial tree species;

(87) **"vegetative reproduction"** means coppice, suckering, or sprouting from the roots or stump sprouts or from buds around the root collar;

(88) **"vigorous"** means live, free of disease or gross defects, exhibiting terminal or annual growth, capable of continued growth, and appears able to survive until the end of rotation; a conifer must contain a minimum of one third live crown;

(89) **"water bar"** means a diversion ditch or hump created in a trail or road for the purpose of carrying surface water runoff into the vegetation duff, ditch, or other dispersion area so that it does not gain the volume and velocity that cause soil movement and erosion;

(90) **"well distributed"** means that average stocking levels meet or exceed the minimum standards with no more than 10 percent of the harvest unit excluding roads, landings, and material sites, below minimum standards;

(91) **"windthrown"** means a natural process by which trees are uprooted or sustain severe damage by the wind;

(92) **"winter road"** means a road that has a load-bearing capacity derived from a combination of frost, snow, or ice that can seasonally support highway vehicles and logging equipment;

(93) **"fine textured soil"** means mineral soil with a texture of silty-clay, sandy-clay, or clay;

(94) **"unstable fill material"** means organic debris, organic soil, or fine textured soil;

(95) **"unstable slope"** means a slope exhibiting mass wasting or where mass wasting is likely to occur.

AS 41.17.950. Definitions. In this chapter, unless the context otherwise requires,

(1) "anadromous water body" means the portion of a fresh water body or estuarine area that

(A) is cataloged under AS 16.05.041 as important for anadromous fish; or

(B) is not cataloged under AS 16.05.871 as important for anadromous fish but has been determined by the Department of Fish and Game to contain or exhibit evidence of anadromous fish in which event the anadromous portion of the stream or waterway extends up to the first point of physical blockage;

(2) *omitted and not applicable to this project (3/26/2015)*;

(3) "board" means the Board of Forestry established in AS 41.17.041;

(4) "broadcast chemicals" includes pesticides, herbicides, fungicides, fertilizers, poisons, and any other substances

(A) used for silvicultural management or related purposes;

(B) not native to the ecosystem in which they are being applied; and

(C) having a foreseeable adverse impact on the welfare of renewable resources, as determined by the commissioner of environmental conservation;

(5) *[Repealed §38, E.O. No. 114 (2008))*

(6) "division" means the division of forestry;

(7) "forest land" means land stocked or having been stocked with forest trees of any size and not currently developed for nonforest use, regardless of whether presently available or accessible for commercial purposes, and includes any such land under state, municipal, or private ownership;

(8) "forest landowner" means a person who owns forest land, but does not include the owner of mineral or subsurface rights only;

(9) "glacial," with respect to a water body, as used in the phrases "glacial high value resident fish water body" and "glacial anadromous water body," means that, under normal conditions, a water body receives significant surface flow from a glacier; "glacial," with respect to a water body, includes a water body that receives a mix of glacial water and water from other sources;

(10) "high value resident fish" means resident fish populations that are used for recreational, personal use, commercial, or subsistence purposes;

(11) "multiple use" means

(A) the management of all the various resources of forest land so that they are used in the combination that will best meet the needs of the citizens of the state, making the most judicious use of the land for some or all of these resources or related values, benefits, and services over areas large enough to provide sufficient latitude for periodic adjustments in use to conform to changing needs and conditions;

(B) that some land will be used for less than all of the resources; and

(C) harmonious and coordinated management of the various resources, each with the other, without significant impairment of the productivity of the land and water, with consideration being given to the relative values of the various resources, and not necessarily the combination of uses that will give the greatest dollar return or the greatest unit output;

(12) "nonglacial," with respect to a water body, as used in the phrases "nonglacial high value resident fish water body" and "nonglacial anadromous water body," means that, under normal conditions, a water body does not receive significant surface flow from a glacier;

(13) "operations" means timber harvesting or activities associated with timber harvesting or forest development unless exempted under AS 41.17.900(a) - (c);

(14) "operator" means a person who is engaged in timber harvesting or activities associated with timber harvesting or forest development, or who contracts with others to conduct operations for that

person, except a person who is engaged in an operation as an employee with wages or piecework as the sole compensation;
(15) "ordinary high water mark" means the mark along the bank or shore up to which the presence and action of the tidal or nontidal water are so common and usual, and so long continued in all ordinary years, as to leave a natural line impressed on the bank or shore and indicated by erosion, shelving, changes in soil characteristics, destruction of terrestrial vegetation, or other distinctive physical characteristics;
(16) "other public land" means state land managed by state agencies other than the department, land owned by a municipality, and land owned by the University of Alaska;
(17) *omitted and not applicable to this project (3/26/2015)*;
(18) "person" has the meaning given in AS 01.10.060 and also includes a joint venture;
(19) *omitted and not applicable to this project (3/26/2015)*;
(20) "Region I" means all land in Southeast Alaska, plus all land that is south of the crest of the Chugach Mountains and Saint Elias Mountains and east of a line running from the crest of the Chugach Mountains to O'Malley Peak, then southerly to Gull Rock, then southwesterly to the eastern junction of Skilak Lake Road and the Sterling Highway, then southwesterly to the mouth of the Fox River, then southwesterly through Kachemak Bay to Mt. Douglas, plus all land on the Alaska Peninsula between Mt. Douglas and Cape Kumliun that is east of the crest of the Aleutian Range, plus all islands in the Gulf of Alaska north of 56 degrees 23 minutes North latitude;
(21) *omitted and not applicable to this project (3/26/2015)*;
(22) *omitted and not applicable to this project (3/26/2015)*;
(23) "riparian area" means
(A) the areas subject to riparian protection standards in AS 41.17.116(a) and (c) on private land in Region I;
(B) *omitted and not applicable to this project (3/26/2015)*; (C) the area 100 feet from the shore or bank of an anadromous or high value resident fish water body on state land managed by the department and on other public land in Region I;
(24) "significant impairment of the productivity of the land and water" means an activity that may foreseeably result in prolonged or substantial damage to renewable resources or prolonged or substantial reduction of the continuing capability of the land or water to produce renewable resources at their natural or historic levels;
(25) "silviculture" means the art of producing and tending a forest, the application of the knowledge of silvics in the treatment of a forest, and the theory and practice of controlling and managing forest establishment, composition, and growth;
(26) "state forest" means an area designated by the legislature and retained in state ownership in order to
(A) provide a base for sustained yield management of renewable resources; and
(B) permit a variety of beneficial uses;
(27) "sustained yield" means the achievement and maintenance in perpetuity of a high level annual or regular periodic output of the various renewable resources of forest land and water without significant impairment of the productivity of the land and water, but does not require that timber be harvested in a non-declining yield basis over a rotation period;
(28) *omitted and not applicable to this project (3/26/2015)*;
(29) *omitted and not applicable to this project (3/26/2015)*;
(30) "timber owner" means a person who owns timber on forest land or who has the rights to timber, but does not own the land itself;
(31) "Type I-A water body" means, in Region I, an anadromous water body that
(A) is a stream or river of any size having an average gradient of eight percent or less, with banks held in place by vegetation, channels that are not incised, and a substrate composed of rubble, gravel, sand, or silt;
(B) consists of wetlands and lakes, including their outlets; and

(C) is an estuarine area delimited by the presence of salt-tolerant vegetation;

(32) "Type I-B water body" means, in Region I, an anadromous water body that does not meet the definition of a Type I-A water body;

(33) "Type I-C water body" means, in Region I, a water body that is not anadromous, that is a tributary to a Type I-A or Type I-B water body, and that has a gradient of 12 percent or less.

(34) "Type I-D water body" means, in Region I, a water body that is not anadromous, that is tributary to a Type I-A or Type I-B water body, and that has a gradient greater than 12 percent.

11 AAC 71.910. Definitions.

(8) "material" includes, but is not limited to, the common varieties of sand, gravel, stone, pumice, pumicite, cinders, clay, topsoil, peat, and sod.

Appendix E- Not Used.
Appendix F-Not Used.
Appendix G- Not Used.

Appendix H– Personnel Qualifications and Training Certificates for:

- DESCP Preparer
- Project Superintendent

Appendix I– DESCP Pre-Construction Site Visit(s)

Appendix J– Not used.

Appendix K– Not Used.

Appendix L– Not Used.

Appendix M– Hazardous Material Control Plan

Appendix N–Not Used

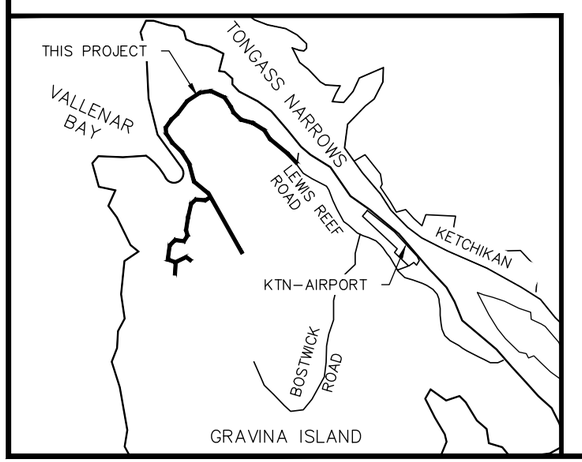
Appendix O– Not Used

Appendix P– Inspection Reports

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF FORESTRY

VALLENAR BAY ROAD IMPROVEMENTS

PROJECT NO. 34050-5



INDEX

STATE OF ALASKA 49TH
ERIK JAMES JORDT
No. CE 119553
6/15/2018
REGISTERED PROFESSIONAL ENGINEER

Revisions			
No.	Date	Description	By

STATE OF ALASKA
Department of Natural Resources
Division of Forestry

Approved:

Project Engineer or Forester _____ Date _____

Project or Contract No. _____

LEGEND

EXISTING	PROPOSED	
		ROAD CENTERLINE
		EDGE OF GRAVEL
		ESTIMATED LIMITS OF CUT SLOPE
		ESTIMATED LIMITS OF FILL SLOPE
100		CONTOUR MAJOR
		CONTOUR MINOR
		EDGE OF VEGETATION/CLEARING LIMITS
OHE OHE		OVERHEAD ELECTRICAL LINE
		DIRECTION OF FLOW
		EDGE OF WATER
		CONTROL POINT
		UTILITY POLE
GP		GUY POLE
		GUY ANCHOR
		CULVERT
		POINT OF INTERSECTION (PI)
		POINT OF CURVATURE/TANGENCY (PC/PT)

ABBREVIATIONS

ADOT&PF	ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
ADNR	ALASKA DEPARTMENT OF NATURAL RESOURCES
CL	CENTERLINE
CS	CONTINGENT SUM
CMP	CORRUGATED METAL PIPE
CY	CUBIC YARD
DOF	DIVISION OF FORESTRY
E	EAST, EASTING
FRPA	FOREST RESOURCES AND PRACTICES ACT
KGB	KETCHIKAN GATEWAY BOROUGH
LF	LINEAR FOOT
LS	LUMP SUM
MAX	MAXIMUM
MIN	MINIMUM
MPH	MILES PER HOUR
N	NORTH, NORTHING
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
RP	REFERENCE POINT
TYP	TYPICAL

Revisions			
No.	Date	Description	By

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF FORESTRY — STATE OF ALASKA

VALLENAR BAY ROAD
IMPROVEMENTS
PROJECT NO. 34050-5

STATE OF ALASKA
49th
ERIK JAMES JORDT
No. CE119553
6/29/2020
REGISTERED PROFESSIONAL ENGINEER

LEGEND AND ABBREVIATIONS

PREPARED: EJJ
DRAWN: WP
REVIEWED: DWL
DATE: 6/29/2020

SHEET
A2

FOREST ROAD PERFORMANCE STANDARDS

1. ALL ROAD IMPROVEMENTS SHALL BE BUILT TO THE STANDARDS LISTED WITHIN THE PLANS AND SPECIFICATIONS. IN THE EVENT OF A CONFLICT BETWEEN DOCUMENTS, THE ENGINEER WILL DETERMINE THE ORDER OF PRECEDENCE.

2. REFERENCE THE FOLLOWING RESOURCES FOR ADDITIONAL INFORMATION:
   A. ALASKA FOREST RESOURCES & PRACTICES REGULATIONS, 11 AAC 95, MAY 2018;
   B. ALASKA STATUTE 41.17, FOREST RESOURCES AND PRACTICES ACT.

3. CROWN TRAVELED WAY OR ROADBED 3–5% FOR ALL SECTIONS.

4. ALL FILL SLOPES SHALL BE 2:1 (OR FLATTER) AND ALL CUT SLOPES SHALL BE 1.5:1 (OR FLATTER) IN COMMON MATERIAL OR 1/4:1 (OR FLATTER) IN BEDROCK. TERRACED SLOPES ARE PERMITTED IF THEY FIT WITHIN THE RIGHT–OF–WAY.

5. UTILIZE APPROVED MATERIAL LOCATED WITHIN THE RIGHT–OF–WAY TO PERFORM ROAD IMPROVEMENTS. IF SUFFICIENT MATERIAL IS NOT AVAILABLE OR OF SUITABLE QUALITY, THE ENGINEER MAY AUTHORIZE THE IMPORT OF UNCLASSIFIED BORROW OBTAINED FROM EXISTING PITS LOCATED ALONG THE PROJECT CORRIDOR. IN GENERAL, ROAD IMPROVEMENTS SHALL BE CONSTRUCTED AS FOLLOWS:
   A. THE IMPROVED ROAD SECTION SHALL TYPICALLY HAVE A 24" MINIMUM SUBGRADE CONSISTING OF UNCLASSIFIED BORROW. MATERIAL SHALL BE WELL–GRADED ANGULAR STONE WITH A D50 OF 3" OR GREATER (SHOT ROCK) OR A POORLY GRADED NATURAL SAND AND GRAVEL MIX WITH A MAX GRAIN SIZE OF 12" (PIT RUN GRAVEL). IF AUTHORIZED BY THE ENGINEER, THAT MATERIAL MAY ALSO BE USED AS THE RUNNING SURFACE.

6. ROAD CLEARING OPERATIONS ARE NOT ANTICIPATED UNDER THIS PROJECT. IF ROAD CLEARING OPERATIONS ARE WARRANTED DURING CONSTRUCTION, ALL MERCHANTABLE TIMBER WITHIN THE CLEARING LIMITS SHALL BE FELLED, LIMBED AND DECKED. MERCHANTABLE TIMBER SHALL BE DECKED ALONG THE ROAD IN A MANNER THAT DOES NOT CREATE A HAZARD TO THE PUBLIC. LOGS SHALL BE DECKED IN AN ORDERLY MANNER AND NOT OBSTRUCT SURFACE WATERS. LOG DECKS SHALL BE CONFIGURED TO EFFICIENTLY AND SAFELY LOAD LOG TRUCKS; LOG DECKS GENERALLY SHALL BE CONSOLIDATED IN A MANNER THAT FACILITATES THE LOADING OF FULL LOADS WITHOUT LOG TRUCK MOVEMENT.

7. DITCHES SHALL BE CONSTRUCTED AS SHOWN ON THE TYPICAL SECTIONS OR AS REQUIRED FOR ADEQUATE DRAINAGE AND SNOW STORAGE AS DETERMINED BY THE ENGINEER. DURING DITCH CONSTRUCTION, BEDROCK MAY BE ENCOUNTERED AND BLASTING MAY BE REQUIRED.

8. APPROXIMATE LOCATION OF DRAINAGE STRUCTURES ARE IDENTIFIED IN THE BID DOCUMENTS. FIELD VERIFY PROPOSED CULVERT LOCATIONS AND COORDINATE WITH ENGINEER PRIOR TO INSTALLATION.
   A. CULVERTS MUST EXTEND A MINIMUM OF 18" BEYOND THE TOE OF FILL ON BOTH SIDES OF THE ROAD.
   B. CULVERT ENDS SHALL BE CONSTRUCTED TO PREVENT SCOUR OF THE ROAD BED.

GENERAL NOTES

1. TURNOUT/TURNAROUND CONSTRUCTION IS NOT ANTICIPATED UNDER THIS PROJECT BUT ARE SHOWN IN THE PLANS IF ADDITIONAL TURNOUTS/TURNAROUNDS ARE REQUIRED DURING CONSTRUCTION. TURNAROUND EXTENSION WORK IS REQUIRED UNDER THIS PROJECT AS SHOWN. SEE SPECIFICATION SECTION 203–3.03.

2. EXISTING ABOVE GRADE UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE UTILITY INFORMATION SHOWN. THE CONTRACTOR SHALL CONTACT LOCAL UTILITIES AS REQUIRED TO FIELD LOCATE ALL UTILITIES PRIOR TO DIGGING. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO DIGGING, OTHERWISE CONTRACTOR IS RESPONSIBLE FOR ALL ADDITIONAL COSTS ASSOCIATED WITH WORKING AROUND UTILITIES DIFFERENT THAN WHAT IS SHOWN ON THESE PLANS.

3. TOPOGRAPHIC INFORMATION IS BASED ON ADOT&PF FIELD SURVEY PERFORMED IN 2018 AND LIDAR DATA FROM 2013. SINCE COMPLETION OF THE SURVEY, EXISTING ROAD SURFACES MAY HAVE CHANGED DUE TO REGULAR ROAD USE. ROAD STATIONING, SURFACE ELEVATIONS, AND HORIZONTAL CONTROL SHOWN IN THE DRAWINGS ARE APPROXIMATE AND ARE INTENDED TO BE USED FOR DETERMINATION OF EARTHWORK QUANTITIES.

4. CONTRACTOR SHALL COORDINATE WITH ENGINEER TO FIELD VERIFY ALL WORK AREA LIMITS PRIOR TO CONSTRUCTION. STATIONING LIMITS SHOWN ON THE PLAN AND PROFILE (F–SHEETS) ARE APPROXIMATE AND ARE FOR BIDDING PURPOSES ONLY.

Revisions			
No.	Date	Description	By

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF FORESTRY — STATE OF ALASKA

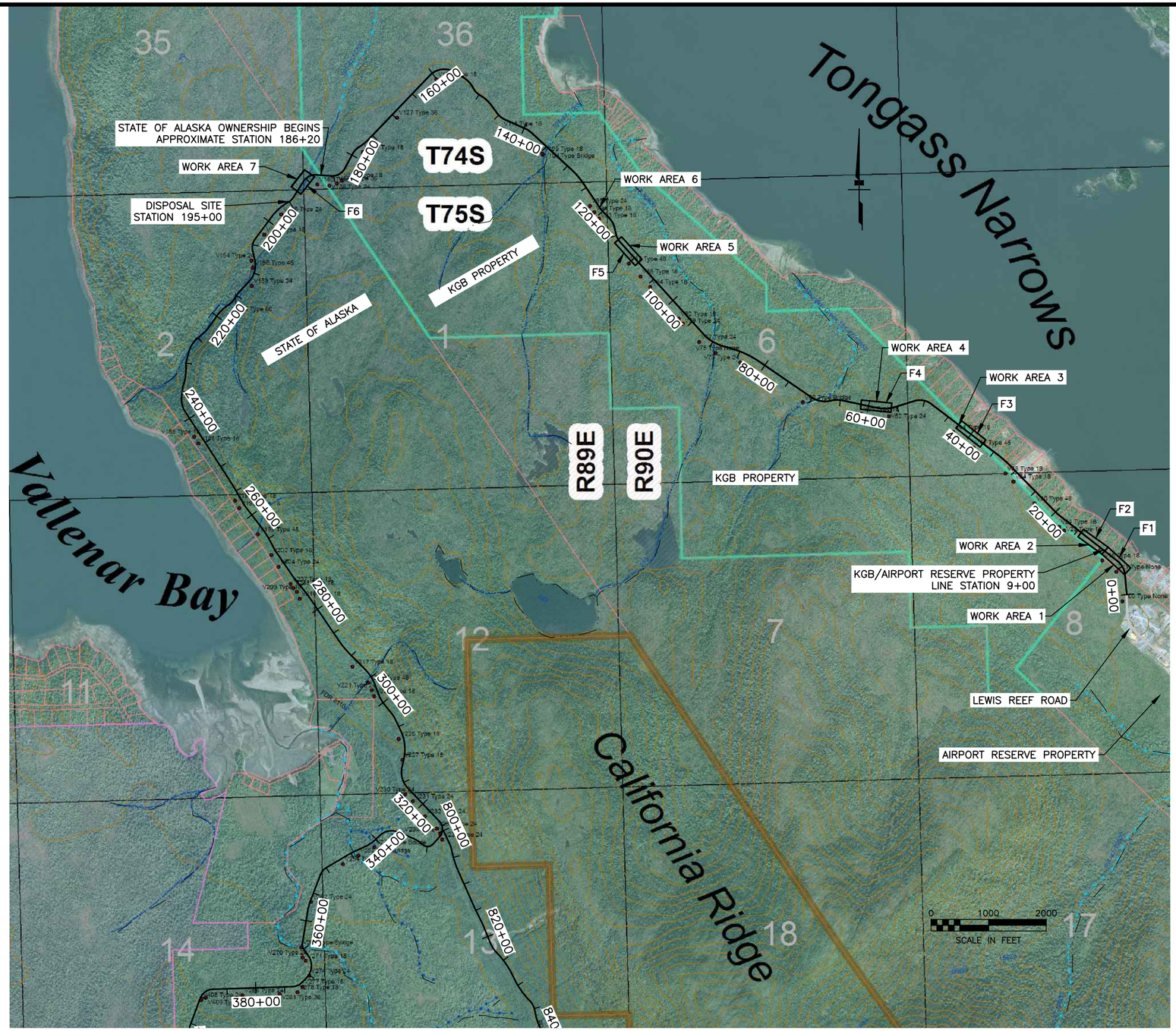
VALLENAR BAY ROAD
IMPROVEMENTS
PROJECT NO. 34050–5

STATE OF ALASKA 49th ERIK JAMES JORDT No. CE11953 6/29/2020 REGISTERED PROFESSIONAL ENGINEER

FOREST ROAD
PERFORMANCE STANDARDS

PREPARED: EJJ
DRAWN: WP
REVIEWED: DWL
DATE: 6/29/2020

SHEET
A3



NOTES:

1. SEE B–SHEETS FOR TYPICAL SECTIONS.
2. WORK AREA 6 IS NOT SHOWN ON PLAN AND PROFILE SHEETS (F–SHEETS).

Revisions			
No.	Date	Description	By

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF FORESTRY
STATE OF ALASKA

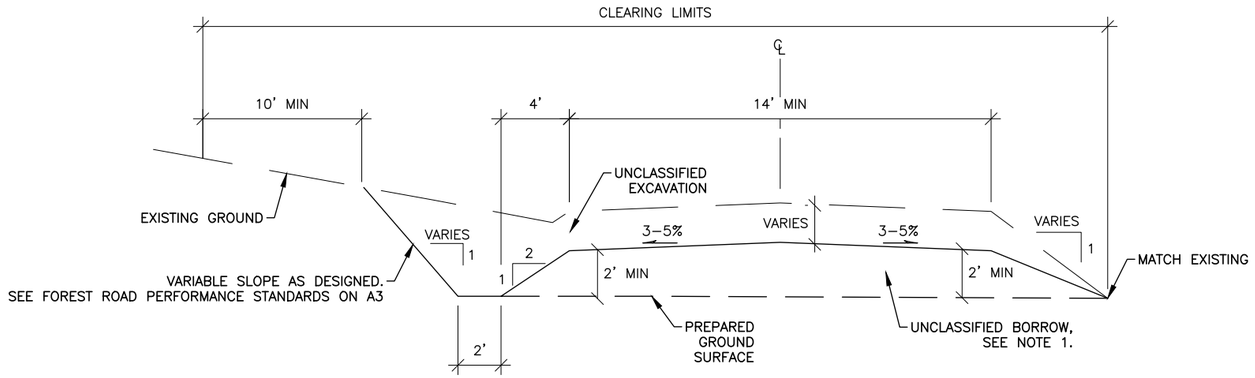
VALLENAR BAY ROAD
IMPROVEMENTS
PROJECT NO. 34050–5

STATE OF ALASKA
49th
ERIK JAMES JORDT
No. CE119553
6/29/2020
REGISTERED PROFESSIONAL ENGINEER

SHEET LAYOUT

PREPARED: EJJ
DRAWN: WP
REVIEWED: DWL
DATE: 6/29/2020

SHEET
A4



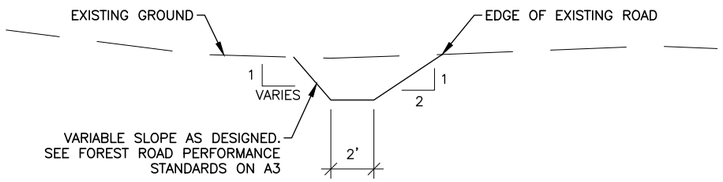
TYPICAL CUT SECTION – WITH DITCH

NOT TO SCALE

WORK AREA 1: STATION 6+20 TO 8+60
WORK AREA 4: STATION 56+94 TO 60+62

NOTES:

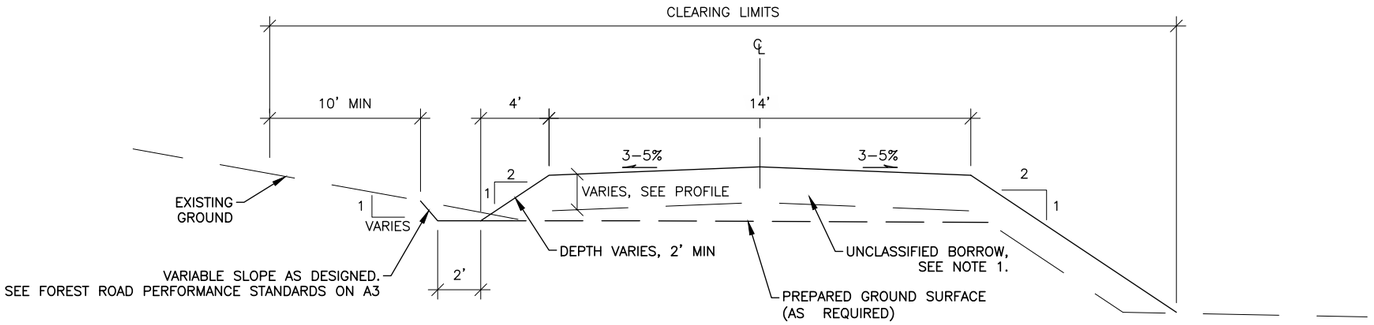
1. UNCLASSIFIED EXCAVATION MATERIAL MEETING THE REQUIREMENTS OF UNCLASSIFIED BORROW SHALL BE REUSED AS UNCLASSIFIED BORROW AND SHALL BE PAID FOR SEPARATELY.



DITCH LINEAR GRADING

NOT TO SCALE

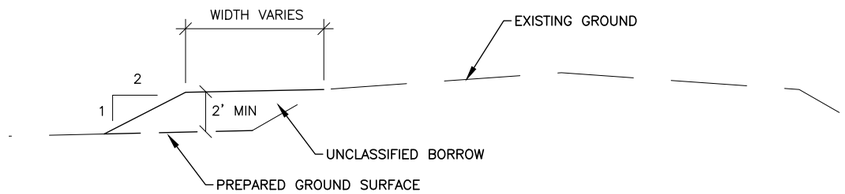
WORK AREA 6: STATION 120+40 TO 121+40
(NOT SHOWN ON PLAN AND PROFILE SHEETS)



TYPICAL OVERLAY SECTION – WITH DITCH

NOT TO SCALE

WORK AREA 1: STATION 4+05 TO 6+20
WORK AREA 1: STATION 8+60 TO 10+00
WORK AREA 2: STATION 10+00 TO 12+45



TURNAROUND EXTENSION SECTION

NOT TO SCALE

WORK AREA 7: STATION 189+76 TO 190+78

Revisions			
No.	Date	Description	By

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF FORESTRY — STATE OF ALASKA

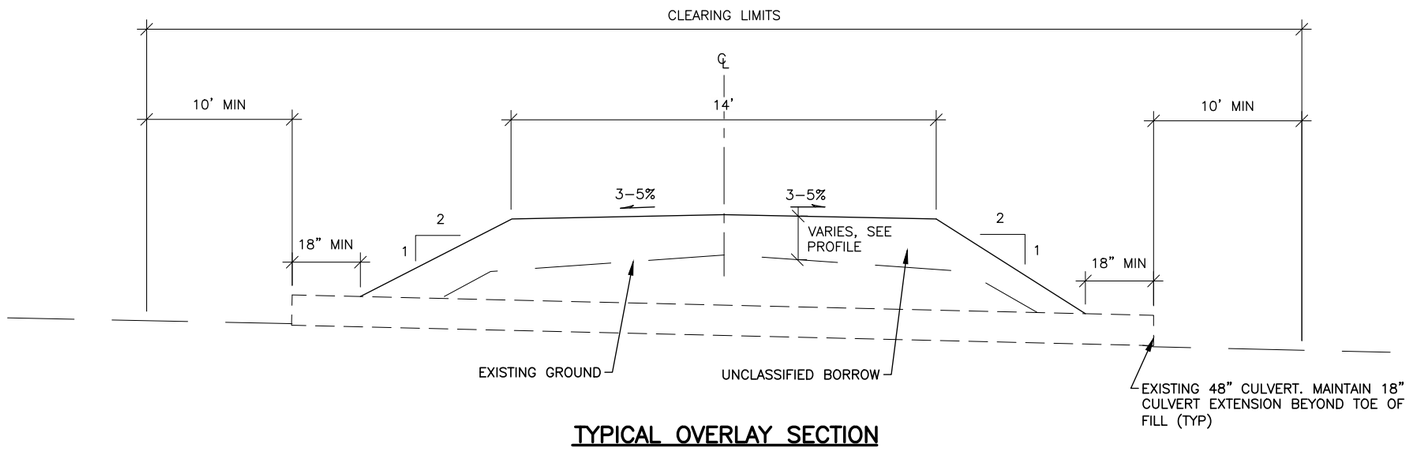
VALLENAR BAY ROAD IMPROVEMENTS
PROJECT NO. 34050–5

STATE OF ALASKA 49th
ERIK JAMES JORDT
No. CE119553
6/29/2020
REGISTERED PROFESSIONAL ENGINEER

TYPICAL SECTIONS

PREPARED: EJJ
DRAWN: WP
REVIEWED: DWL
DATE: 6/29/2020

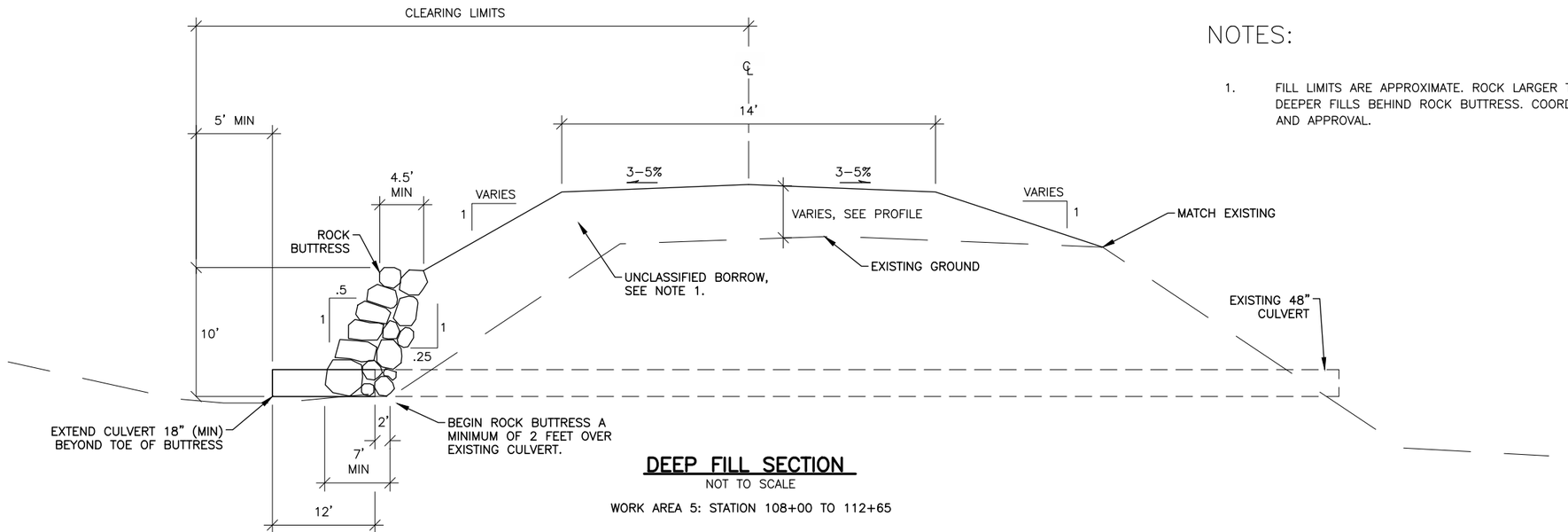
SHEET
B1



TYPICAL OVERLAY SECTION

NOT TO SCALE

WORK AREA 3: STATION 38+35 TO 40+00



DEEP FILL SECTION

NOT TO SCALE

WORK AREA 5: STATION 108+00 TO 112+65

NOTES:

1. FILL LIMITS ARE APPROXIMATE. ROCK LARGER THAN 12" DIAMETER MAY BE USED FOR DEEPER FILLS BEHIND ROCK BUTTRESS. COORDINATE WITH THE ENGINEER FOR REVIEW AND APPROVAL.

Revisions			
No.	Date	Description	By

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF FORESTRY
STATE OF ALASKA

VALLENAR BAY ROAD IMPROVEMENTS
PROJECT NO. 34050–5

STATE OF ALASKA 49th ERIK JAMES JORDT No. CE119553 6/29/2020 REGISTERED PROFESSIONAL ENGINEER

TYPICAL SECTIONS

PREPARED: EJJ
DRAWN: WP
REVIEWED: DWL
DATE: 6/29/2020

SHEET B2

ESTIMATE OF QUANTITIES – BASE BID
WORK AREAS 1, 2, & 5

ITEM NUMBER	ITEM	UNIT	TOTALS
203(3)	UNCLASSIFIED EXCAVATION	CY	1500
203(5D)	UNCLASSIFIED BORROW	CY	3325
203(20)	LINEAR GRADING	LF	1410
252(4)	ROCK BUTTRESS	CY	100
603(17–18)	18–INCH PIPE	LF	50
603(17–48)	48–INCH PIPE	LF	12
640(1)	MOBILIZATION AND DEMOBILIZATION	LS	ALL REQ'D
642(1)	CONSTRUCTION SURVEYING	LS	ALL REQ'D
800(1)	INTERIM WORK AUTHORIZATION	CS	ALL REQ'D

ESTIMATE OF QUANTITIES – ADD ALT 1
WORK AREA 3

ITEM NUMBER	ITEM	UNIT	TOTALS
203(5D)	UNCLASSIFIED BORROW	CY	750
203(20)	LINEAR GRADING	LF	180
642(1)	CONSTRUCTION SURVEYING	LS	ALL REQ'D
800(1)	INTERIM WORK AUTHORIZATION	CS	ALL REQ'D

ESTIMATE OF QUANTITIES – ADD ALT 2
WORK AREA 6

ITEM NUMBER	ITEM	UNIT	TOTALS
203(27A)	DITCH LINEAR GRADING	LF	125
642(1)	CONSTRUCTION SURVEYING	LS	ALL REQ'D
800(1)	INTERIM WORK AUTHORIZATION	CS	ALL REQ'D

ESTIMATE OF QUANTITIES – ADD ALT 3
WORK AREA 7

ITEM NUMBER	ITEM	UNIT	TOTALS
203(5D)	UNCLASSIFIED BORROW	CY	100
203(20)	LINEAR GRADING	LF	110
642(1)	CONSTRUCTION SURVEYING	LS	ALL REQ'D
800(1)	INTERIM WORK AUTHORIZATION	CS	ALL REQ'D

ESTIMATE OF QUANTITIES – ADD ALT 4
WORK AREA 4

ITEM NUMBER	ITEM	UNIT	TOTALS
203(3)	UNCLASSIFIED EXCAVATION	CY	1200
203(5D)	UNCLASSIFIED BORROW	CY	750
203(20)	LINEAR GRADING	LF	375
642(1)	CONSTRUCTION SURVEYING	LS	ALL REQ'D
800(1)	INTERIM WORK AUTHORIZATION	CS	ALL REQ'D

Revisions			
No.	Date	Description	By

STATE OF ALASKA
49th
ERIK JAMES JORDT
No. CE119553
6/29/2020
REGISTERED PROFESSIONAL ENGINEER

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF FORESTRY — STATE OF ALASKA

VALLENAR BAY ROAD
IMPROVEMENTS
PROJECT NO. 34050–5

ESTIMATE OF QUANTITIES
AND SUMMARY TABLES

PREPARED: EJJ
DRAWN: WP
REVIEWED: DWL
DATE: 6/29/2020

SHEET
C1

203(20) LINEAR GRADING – BASE BID

SHEET	STATION		OFFSET	LENGTH (LF)	REMARKS
	FROM	TO			
F1	4+05	10+00	LT/RT	595	WORK AREA 1
F2	10+00	12+45	LT/RT	245	WORK AREA 2
F5	108+00	112+65	LT/RT	465	WORK AREA 5
			TOTAL:	1305	
			USE:	1410	

603(17) CULVERT SUMMARY TABLE – BASE BID

SHEET	STATION	SIZE (IN)	LENGTH (LF)	REMARKS
F1	5+44	18	50	NEW CULVERT
F5	110+85, LT	48	12	CULVERT EXTENSION

203(20) LINEAR GRADING – ADD ALT 1

SHEET	STATION		OFFSET	LENGTH (LF)	REMARKS
	FROM	TO			
F3	38+35	40+00	LT/RT	165	WORK AREA 3
			TOTAL:	165	
			USE:	180	

203(27A) DITCH LINEAR GRADING – ADD ALT 2

SHEET	STATION		OFFSET	LENGTH (LF)	REMARKS
	FROM	TO			
NA	120+40	121+40	LT	100	WORK AREA 6
			TOTAL:	100	
			USE:	125	

203(20) LINEAR GRADING – ADD ALT 3

SHEET	STATION		OFFSET	LENGTH (LF)	REMARKS
	FROM	TO			
F6	189+76	190+78	LT	102	WORK AREA 7
			TOTAL:	102	
			USE:	110	

203(20) LINEAR GRADING – ADD ALT 4

SHEET	STATION		OFFSET	LENGTH (LF)	REMARKS
	FROM	TO			
F4	56+94	60+62	LT/RT	368	WORK AREA 4
			TOTAL:	368	
			USE:	375	

Revisions			
No.	Date	Description	By

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF FORESTRY — STATE OF ALASKA

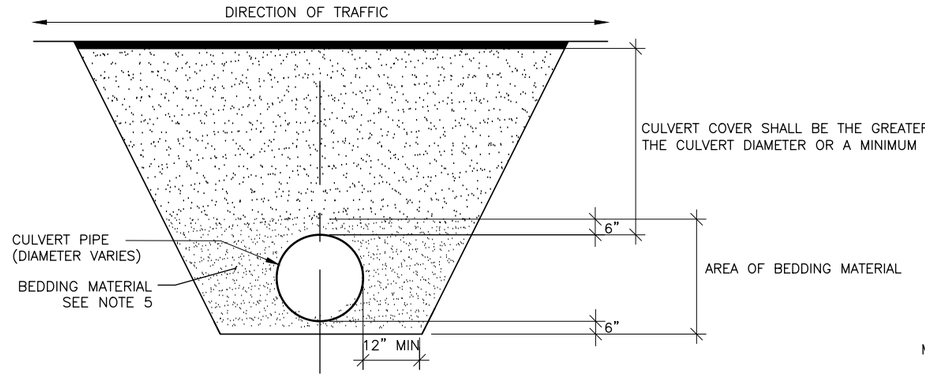
VALLENAR BAY ROAD IMPROVEMENTS
PROJECT NO. 34050–5

STATE OF ALASKA
49th
Erik James Jordt
ERIK JAMES JORDT
No. CE119553
6/29/2020
REGISTERED PROFESSIONAL ENGINEER

ESTIMATE OF QUANTITIES AND SUMMARY TABLES

PREPARED: EJJ
DRAWN: WP
REVIEWED: DWL
DATE: 6/29/2020

SHEET
C2

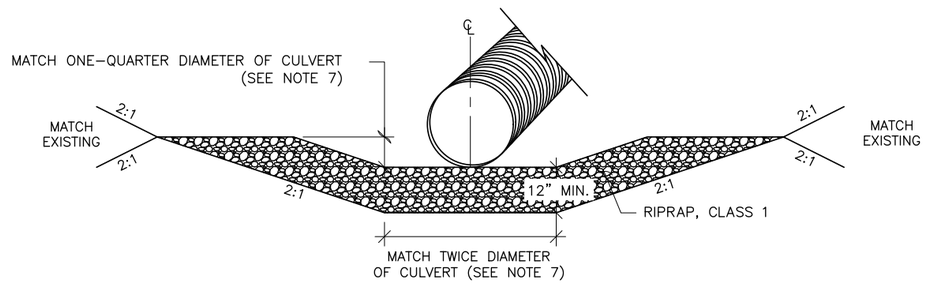


TYPICAL CULVERT TRENCH SECTION

NOT TO SCALE

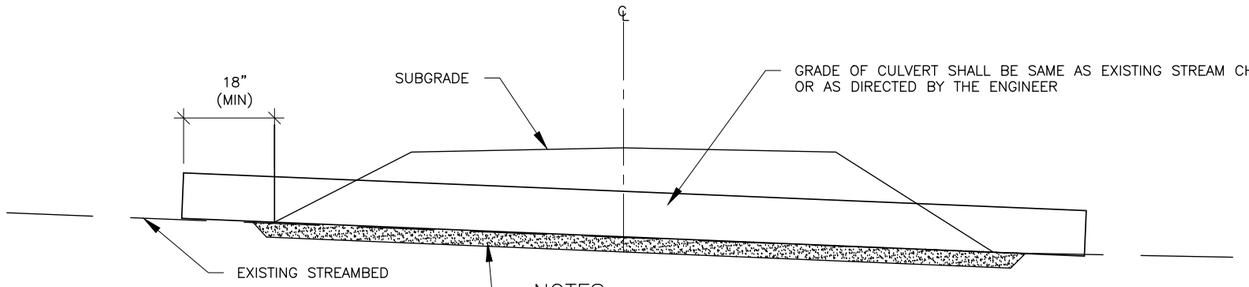
NOTES:

1. CULVERT JOINTS SHALL HAVE WATERTIGHT GASKETS AND SHALL NOT LEAK.
2. CULVERT PLACEMENT SHALL BE APPROVED BY THE ENGINEER BEFORE BACKFILLING.
3. ALL USABLE MATERIAL (COMMON EXCAVATION) SHALL BE USED AS BACKFILL FOR EMBANKMENT CONSTRUCTION.
4. SIDE SLOPES SHALL BE EXCAVATED IN ACCORDANCE WITH ALL APPLICABLE SAFETY REQUIREMENTS.
5. BEDDING MATERIAL SHALL MEET THE SAME REQUIREMENTS AS THE APPLICABLE LIFT OF MATERIAL. DO NOT PLACE ROCKS LARGER THAN 6 INCHES IN THEIR LARGEST DIMENSION AGAINST CULVERT.
6. ROCK ENERGY DISSIPATOR SHALL BE SUBSIDIARY TO CULVERT INSTALLATION.
7. ENGINEER MAY ADJUST TO MATCH EXISTING DRAINAGE CHANNEL.
8. LENGTH OF ENERGY DISSIPATOR SHALL BE 6 TIMES THE DIAMETER OF THE CULVERT.



ROCK ENERGY DISSIPATOR SECTION

NOT TO SCALE



NOTES:

1. DO NOT PERCH CULVERTS.
2. PLACE CULVERT IN ALIGNMENT WITH THE NATURAL STREAM CHANNEL. WHERE NO CHANNEL EXISTS, INSTALL CULVERTS AT SKEW AND SLOPE SHALL BE 5% OR 1/2 OF THE TRIBUTARY DITCH GRADE.
3. CAMBER WILL DEPEND ON SITE CONDITIONS. MAX CAMBER IS 2% (STEEL OR ALUMINUM CULVERTS) OR 1% (POLYETHYLENE CULVERTS) OF CULVERT LENGTH BY NO MORE THAN 2.5 INCHES AT CENTER.
4. MINIMUM CULVERT DIAMETER IS 18 INCHES.
5. CULVERT INLETS AND OUTLETS SHALL EXTEND 18 INCHES BEYOND THE TOE OF THE FILL UNLESS OTHERWISE AGREED TO BY THE ENGINEER.
6. PROVIDE ENERGY DISSIPATORS AT OUTLETS OF STORM DRAIN CULVERTS (FRPA 11 AAC 95.305 (C)).

TYPICAL CULVERT INSTALLATION

NOT TO SCALE

Revisions			
No.	Date	Description	By

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF FORESTRY — STATE OF ALASKA

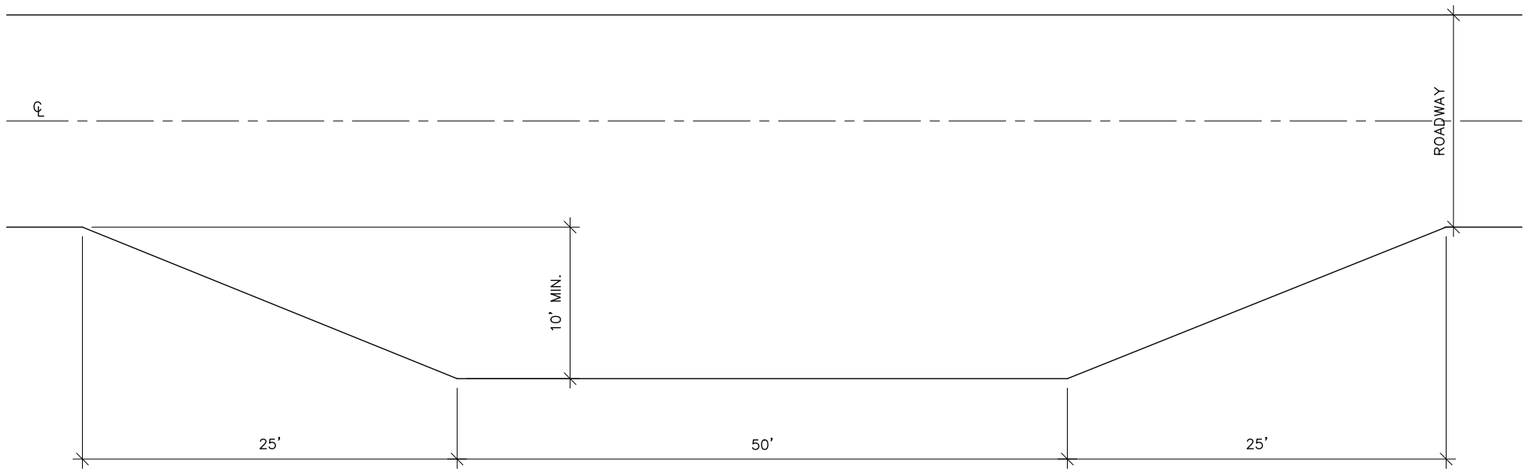
VALLENAR BAY ROAD IMPROVEMENTS
PROJECT NO. 34050–5

STATE OF ALASKA 49th
ERIK JAMES JORDT
No. CE119553
6/29/2020
REGISTERED PROFESSIONAL ENGINEER

CULVERT DETAILS

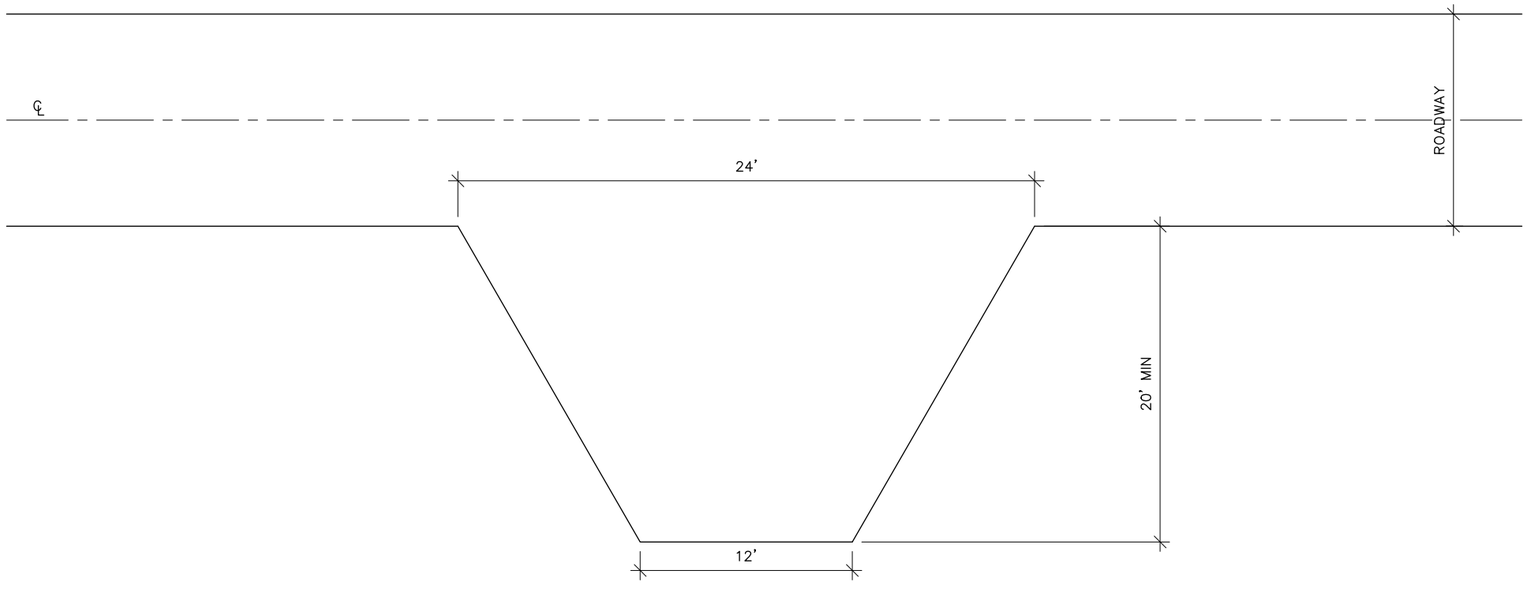
PREPARED: EJJ
DRAWN: WP
REVIEWED: DWL
DATE: 6/29/2020

SHEET
E1



TURNOUT DETAIL

NOT TO SCALE



TURNAROUND DETAIL

NOT TO SCALE

Revisions			
No.	Date	Description	By

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF FORESTRY — STATE OF ALASKA

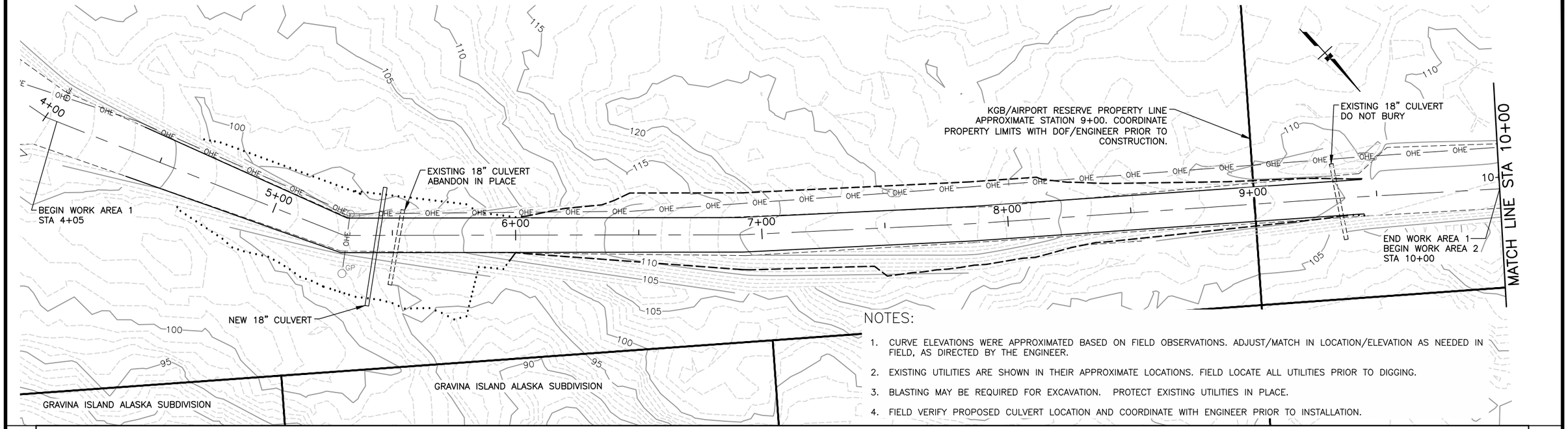
VALLENAR BAY ROAD
IMPROVEMENTS
PROJECT NO. 34050-5

STATE OF ALASKA 49th ERIK JAMES JORDT No. CE11953 6/29/2020 REGISTERED PROFESSIONAL ENGINEER

TURNOUT/TURNAROUND DETAILS

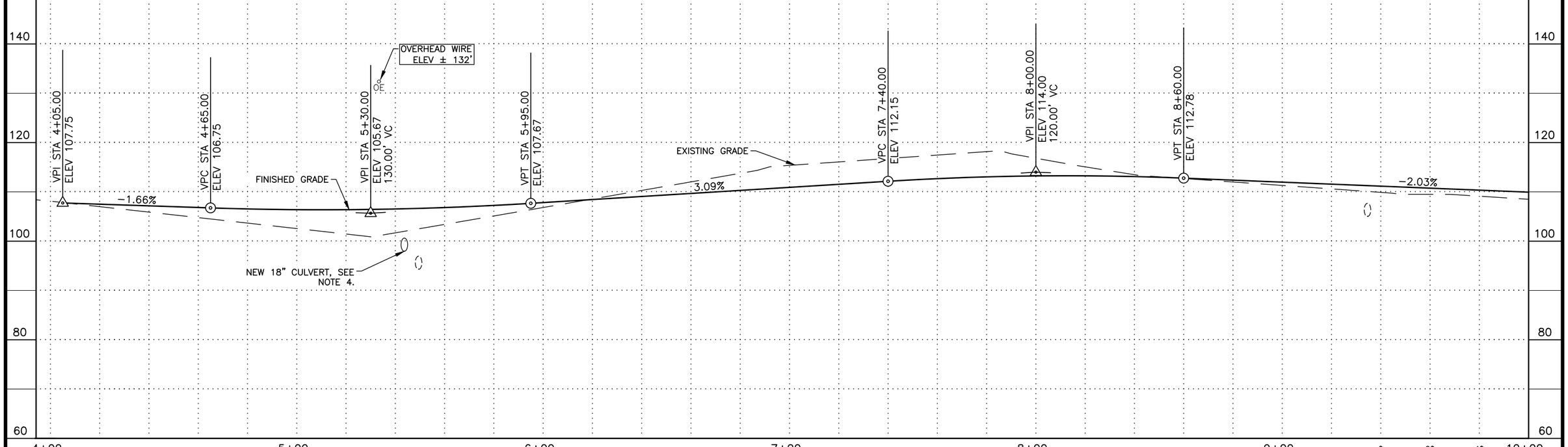
PREPARED: EJJ
DRAWN: WP
REVIEWED: DWL
DATE: 6/29/2020

SHEET
E2



NOTES:

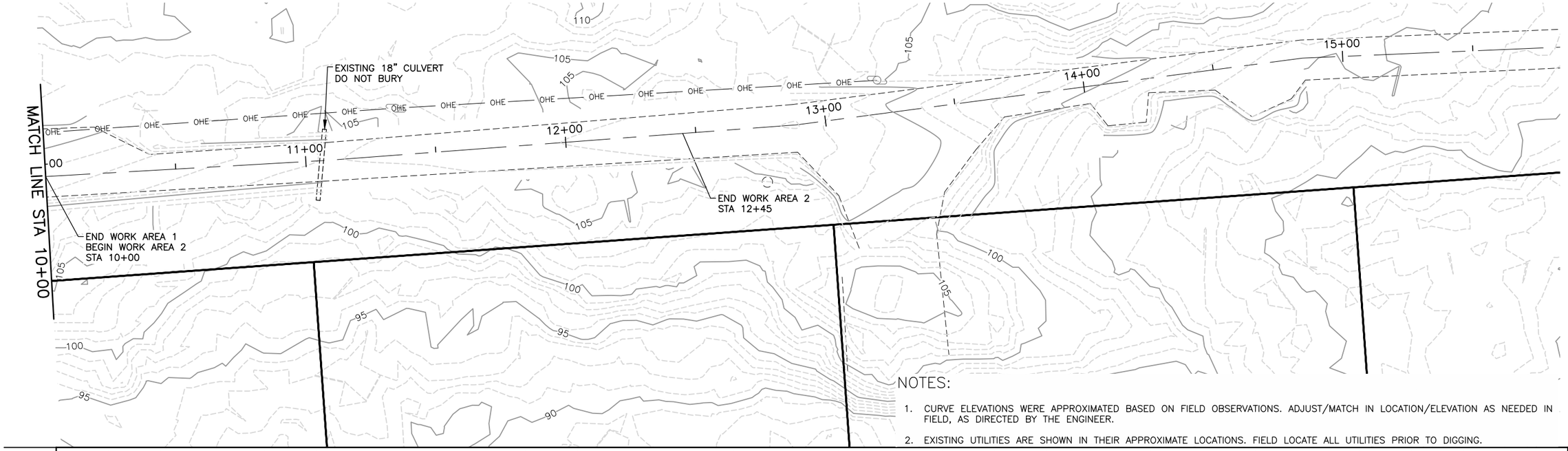
1. CURVE ELEVATIONS WERE APPROXIMATED BASED ON FIELD OBSERVATIONS. ADJUST/MATCH IN LOCATION/ELEVATION AS NEEDED IN FIELD, AS DIRECTED BY THE ENGINEER.
2. EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. FIELD LOCATE ALL UTILITIES PRIOR TO DIGGING.
3. BLASTING MAY BE REQUIRED FOR EXCAVATION. PROTECT EXISTING UTILITIES IN PLACE.
4. FIELD VERIFY PROPOSED CULVERT LOCATION AND COORDINATE WITH ENGINEER PRIOR TO INSTALLATION.



DEPARTMENT OF NATURAL RESOURCES DIVISION OF FORESTRY — STATE OF ALASKA	VALLENAR BAY ROAD IMPROVEMENTS PROJECT NO. 34050-5	STATE OF ALASKA 49th ERIK JAMES JORDT No. CE119553 6/29/2020 REGISTERED PROFESSIONAL ENGINEER	WORK AREA 1 PLAN AND PROFILE

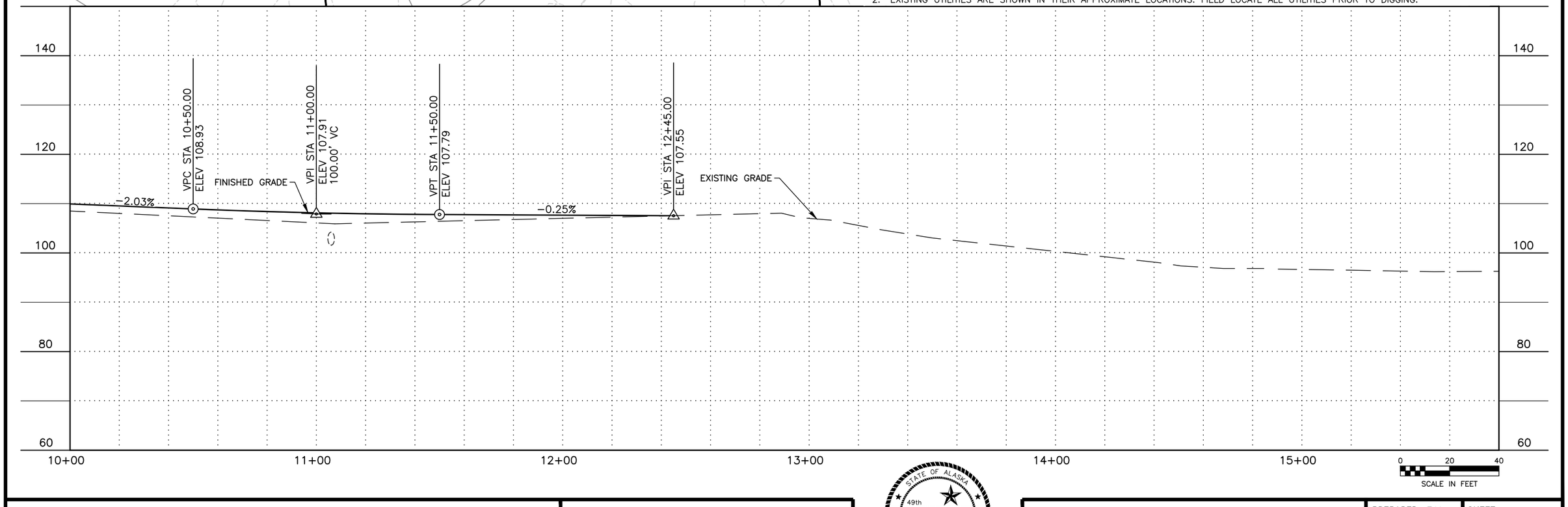
PREPARED: EJJ
DRAWN: WP
REVIEWED: DWL
DATE: 6/29/2020

SHEET
F1



NOTES:

1. CURVE ELEVATIONS WERE APPROXIMATED BASED ON FIELD OBSERVATIONS. ADJUST/MATCH IN LOCATION/ELEVATION AS NEEDED IN FIELD, AS DIRECTED BY THE ENGINEER.
2. EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. FIELD LOCATE ALL UTILITIES PRIOR TO DIGGING.



DEPARTMENT OF NATURAL RESOURCES
DIVISION OF FORESTRY — STATE OF ALASKA

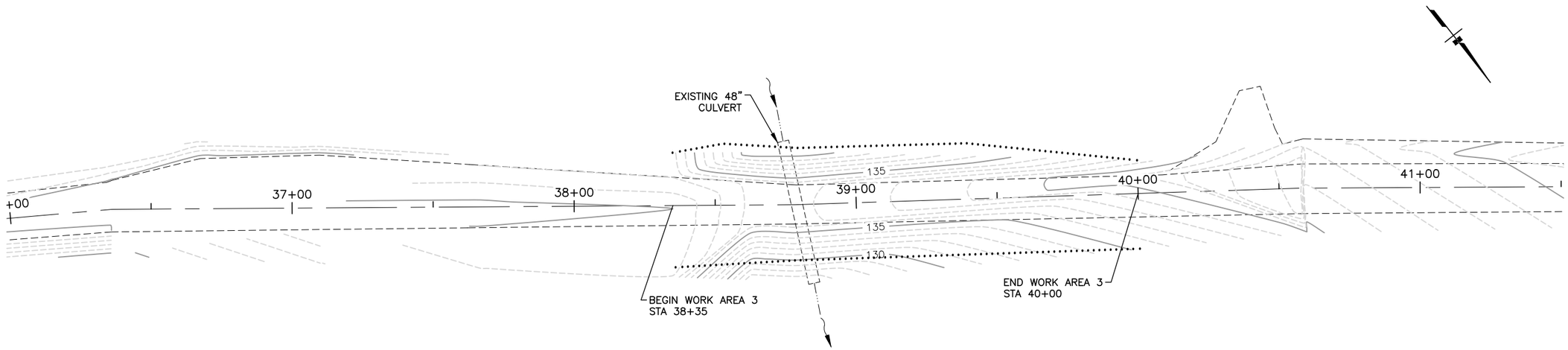
VALLENAR BAY ROAD
IMPROVEMENTS
PROJECT NO. 34050-5

STATE OF ALASKA
49th
Erik James Jordt
ERIK JAMES JORDT
No. CE19553
6/29/2020
REGISTERED PROFESSIONAL ENGINEER

WORK AREA 2
PLAN AND PROFILE

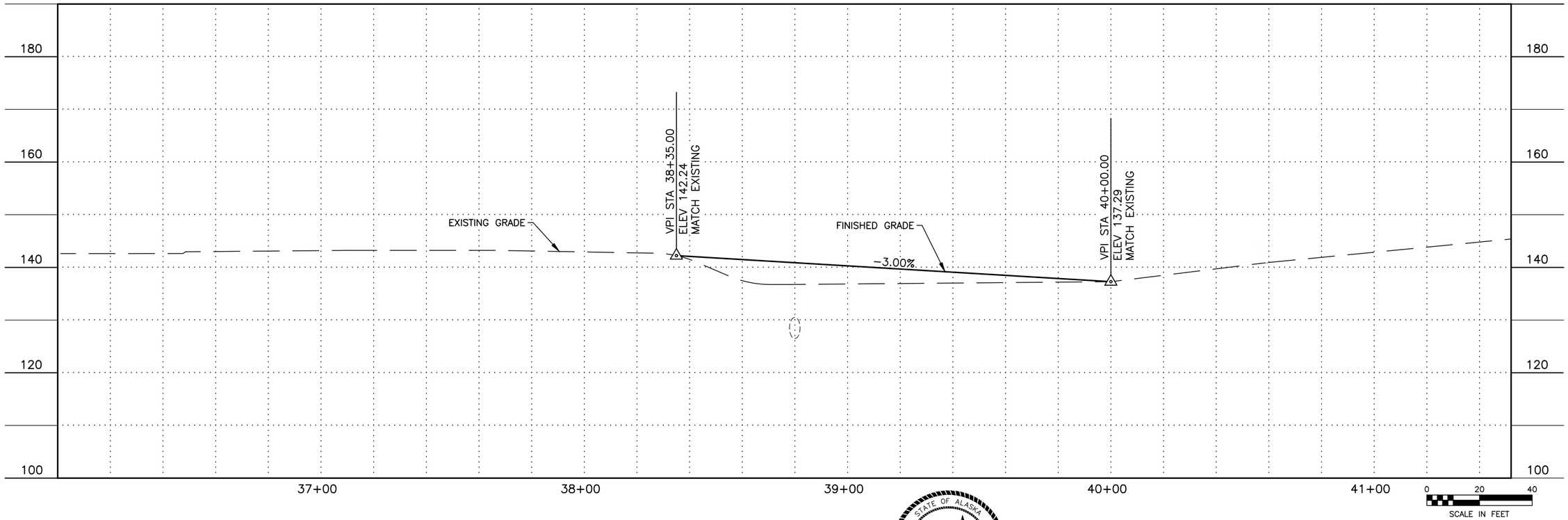
PREPARED: EJJ
DRAWN: WP
REVIEWED: DWL
DATE: 6/29/2020

SHEET
F2



NOTE:

1. CURVE ELEVATIONS AND FILL LIMITS WERE APPROXIMATED BASED ON FIELD OBSERVATIONS. ADJUST/MATCH IN LOCATION/ELEVATION AS NEEDED IN FIELD AND AS DIRECTED BY THE ENGINEER.



DEPARTMENT OF NATURAL RESOURCES
DIVISION OF FORESTRY — STATE OF ALASKA

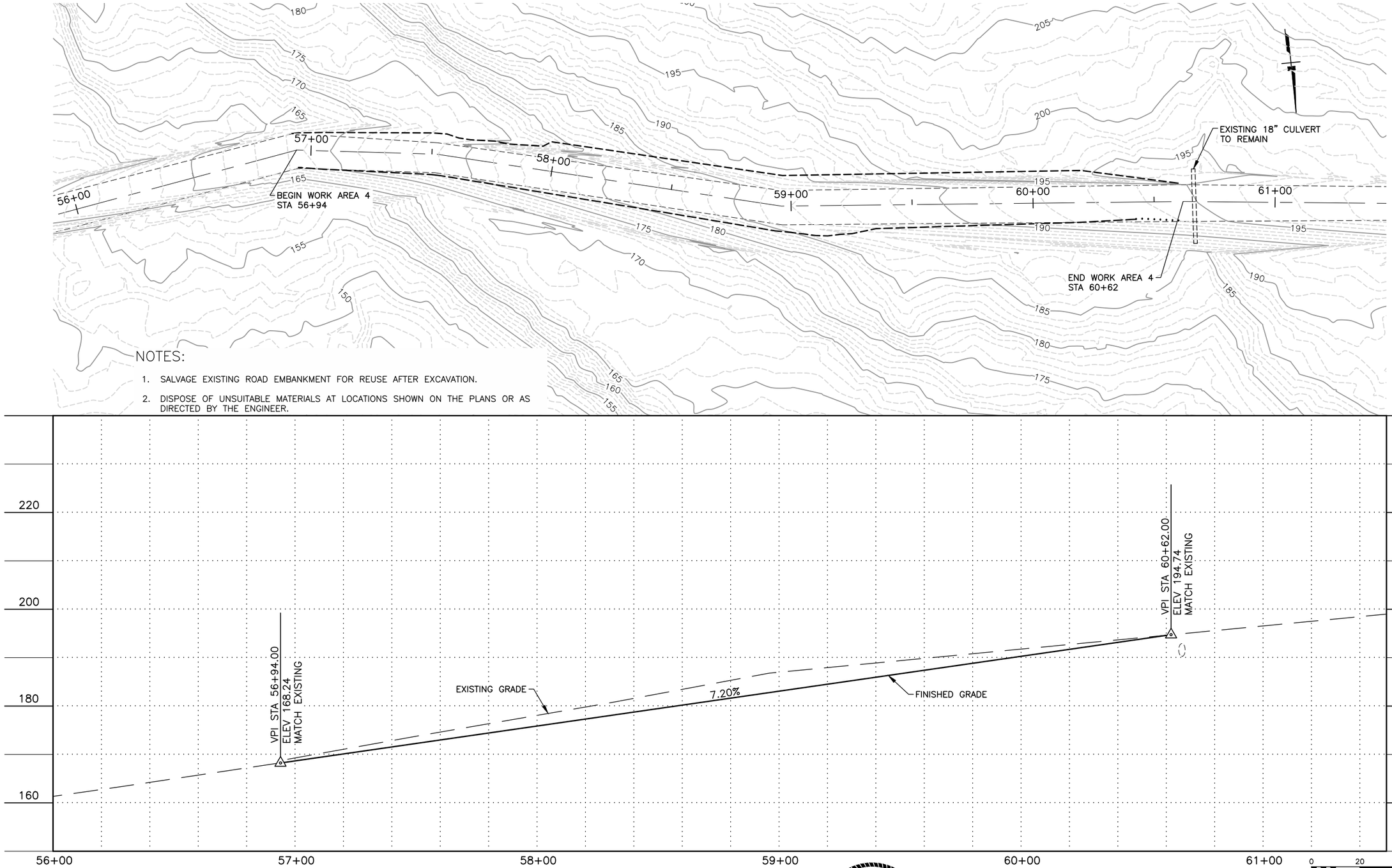
VALLENAR BAY ROAD
IMPROVEMENTS
PROJECT NO. 34050-5

STATE OF ALASKA
49th
Erik James Jordt
ERIK JAMES JORDT
No. CE119353
6/29/2020
REGISTERED PROFESSIONAL ENGINEER

WORK AREA 3
PLAN AND PROFILE

PREPARED: EJJ
DRAWN: WP
REVIEWED: DWL
DATE: 6/29/2020

SHEET
F3



NOTES:

1. SALVAGE EXISTING ROAD EMBANKMENT FOR REUSE AFTER EXCAVATION.
2. DISPOSE OF UNSUITABLE MATERIALS AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF FORESTRY — STATE OF ALASKA

VALLENAR BAY ROAD
IMPROVEMENTS
PROJECT NO. 34050-5

STATE OF ALASKA
49th
Erik James Jordt
ERIK JAMES JORDT
No. CE19553
6/29/2020
REGISTERED PROFESSIONAL ENGINEER

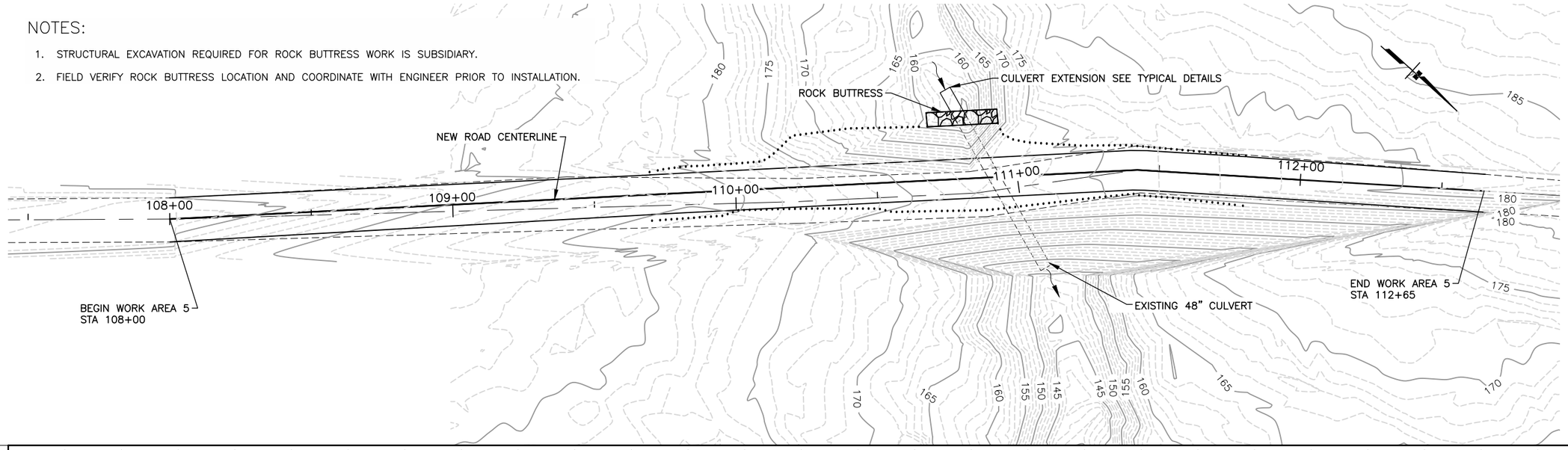
WORK AREA 4
PLAN AND PROFILE

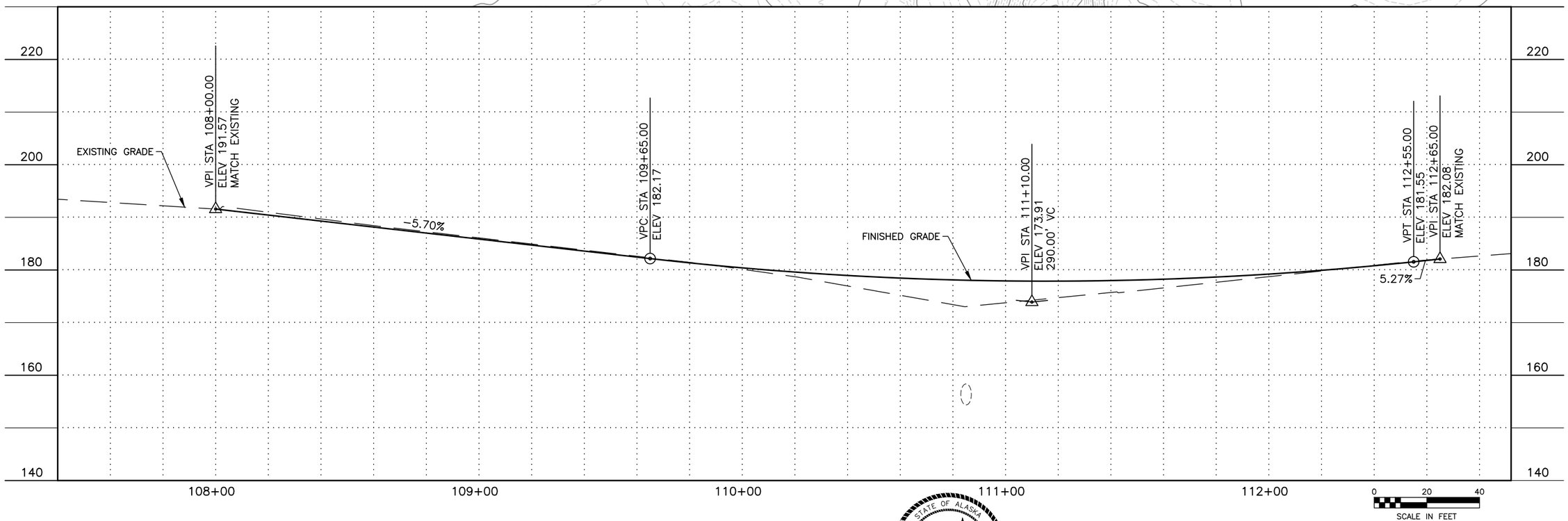
PREPARED: EJJ
DRAWN: WP
REVIEWED: DWL
DATE: 6/29/2020

SHEET
F4

NOTES:

1. STRUCTURAL EXCAVATION REQUIRED FOR ROCK BUTTRESS WORK IS SUBSIDIARY.
2. FIELD VERIFY ROCK BUTTRESS LOCATION AND COORDINATE WITH ENGINEER PRIOR TO INSTALLATION.

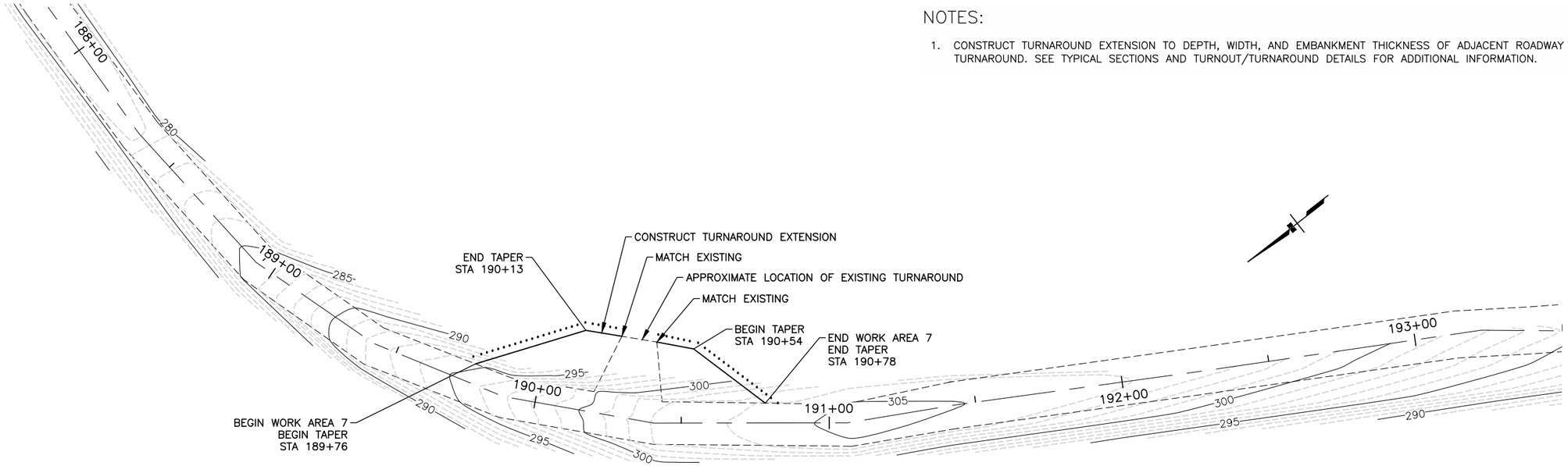


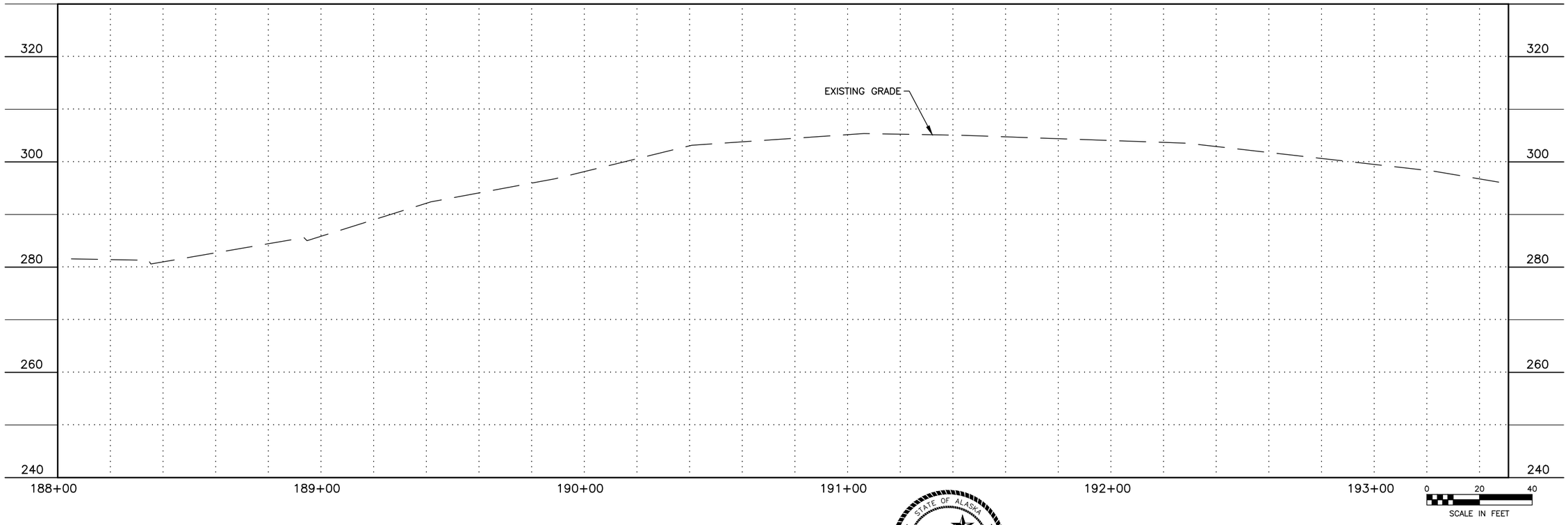


DEPARTMENT OF NATURAL RESOURCES DIVISION OF FORESTRY — STATE OF ALASKA	VALLENAR BAY ROAD IMPROVEMENTS PROJECT NO. 34050-5	STATE OF ALASKA 49th ERIK JAMES JORDT No. CE119553 6/29/2020 REGISTERED PROFESSIONAL ENGINEER	WORK AREA 5 PLAN AND PROFILE	PREPARED: EJJ DRAWN: WP REVIEWED: DWL DATE: 6/29/2020	SHEET F5

NOTES:

1. CONSTRUCT TURNAROUND EXTENSION TO DEPTH, WIDTH, AND EMBANKMENT THICKNESS OF ADJACENT ROADWAY AND TURNAROUND. SEE TYPICAL SECTIONS AND TURNOUT/TURNAROUND DETAILS FOR ADDITIONAL INFORMATION.





DEPARTMENT OF NATURAL RESOURCES
DIVISION OF FORESTRY — STATE OF ALASKA

VALLENAR BAY ROAD
IMPROVEMENTS
PROJECT NO. 34050-5

STATE OF ALASKA
49th
ERIK JAMES JORDT
No. CE 19563
6/29/2020
REGISTERED PROFESSIONAL ENGINEER

WORK AREA 7
PLAN AND PROFILE

PREPARED: EJJ
DRAWN: WP
REVIEWED: DWL
DATE: 6/29/2020

SHEET
F6