

PETERSBURG BOROUGH

SOUTH HARBOR LAUNCH RAMP
FISH CLEANING FLOAT

PROJECT MANUAL
PLANS
CONTRACT DOCUMENTS
TECHNICAL SPECIFICATIONS



Prepared By:



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MARCH 2014

**PETERSBURG BOROUGH
SOUTH HARBOR LAUNCH RAMP
FISH CLEANING FLOAT**

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I INVITATION TO BID

**PETERSBURG BOROUGH
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INVITATION TO BID

Notice is hereby given that the Petersburg Borough will receive sealed bids for the South Harbor Launch Ramp Fish Cleaning Float. The project generally consists of replacing a fish cleaning float and installation of both new and salvaged steel pipe piles and other miscellaneous items. The estimated construction cost for the project is approximately \$175,000. All Work must be completed by September 30th, 2014.

Sealed bids will be received by the Petersburg Borough, Post Office Box 329, Petersburg, Alaska 99833, located in the Municipal Building, No. 12 South Nordic Drive, Petersburg, Alaska 99833 until 2:00 p.m. prevailing time on Tuesday, April 22nd, 2014 at which time the bids will be publicly opened and read aloud in the Assembly Chambers.

The Contract Documents, including one set of reduced scale drawings, may be obtained from the Petersburg Borough Harbormaster's Office, 223 Harbor Way, Petersburg, Alaska 99833 (907) 772-4688. A non-refundable fee of \$40.00 made payable to the Petersburg Borough is required for each set of contract documents. Additional charges will be required for special handling or delivery of the documents by means other than first class mail. The Contract Documents may also be downloaded free of charge on the Petersburg Borough website (www.ci.petersburg.ak.us) under the Current Bid Advertisements section. Downloading Contract Documents from the Petersburg Borough website requires completing a bid advertisement form to receive changes or addenda. Failure to fill out the form may adversely affect your proposal. It is the prospective Bidder's responsibility to insure that they have received all Addenda affecting this Solicitation.

Each bid shall be accompanied by a bid bond, cashier's check or certified check made payable to the Petersburg Borough in the amount of five percent of the total bid price.

Prospective bidders are encouraged to attend a Pre-Bid Conference that will be held in Petersburg on Thursday, April 10th, 2014 beginning at 12:00 PM at the Harbor Office. Attendance by teleconference will be available by calling 1-800-315-6338. Callers will need to enter the following access code: 4688. Technical questions regarding this project shall be directed to Harbormaster Glorianne Wollen and/or Ed Tagaban at the Harbor Department, (907) 772-4688.

The Petersburg Borough reserves the right to reject any or all bids, to waive any informality in a bid, and to make award to the lowest responsive, responsible bidder as it may best serve the interest of the Borough.

Authorized by: Steve Giesbrecht, Borough Manager

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II BIDDER'S CHECKLIST

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BIDDER'S CHECKLIST

INSTRUCTIONS TO BIDDER

I. GENERAL:

Bidders are advised that notwithstanding any instructions or interferences elsewhere in this Invitation to Bid, only the documents shown and detailed on this sheet need be submitted with and made part of their bid. Other documents may be required to be submitted after bid time, but prior to award. Bidders are hereby advised that failure to submit the documents shown and detailed on this sheet shall be justification for rendering the bid non-responsive.

II. REQUIRED DOCUMENTS FOR BID:

NOTE:	Only the following listed items as marked with an "X" are required to be completely filled out and submitted with the bid.
X	Bid proposal consisting of pages BP-1 through BP-2 . BP-2 must be manually signed.
X	Erasures or other changes made to the Bid Proposal Sheet must be initialed by the person signing the bid.
X	Bid Bond, certified check, cashier's check, money order, or cash shall be submitted with the bid in the amount indicated.
X	Non-Collusion Affidavit
X	All Addenda issued shall be acknowledged in the space provided on the Bid Proposal sheet or by manually signing the Addenda sheet and submitting it prior to the bid.
X	Equal Employment Opportunity Statement of Acknowledgement

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III BID PROPOSAL

**PETERSBURG BOROUGH
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BID PROPOSAL**

Item No.	Pay Item Description	Pay Unit	Approx. Quantity	Unit Price		Amount	
				Dollars	Cents	Dollars	Cents
1505.1	Mobilization	LS	All Req'd	\$		\$	
2060.1	Demolition and Salvage	LS	All Req'd	\$		\$	
2894.1	Install Salvaged Transition Plate Assembly	LS	All Req'd	\$		\$	
2895.1	Fish Cleaning Float, 20'x42'	LS	All Req'd	\$		\$	
2896.1	Furnish and Install 12 3/4" Dia. x 0.500"t Steel Pipe Piles	EA	2	\$		\$	
2896.2	Install Salvaged 12 3/4" Dia. Steel Pipe Piles	EA	2	\$		\$	

TOTAL BASE BID AMOUNT (In Figures): \$ _____

TOTAL BASE BID AMOUNT (In Words): _____

BIDDER NAME: _____

**BID PROPOSAL
(CERTIFICATION)**

TO: PETERSBURG BOROUGH _____, 2014
NO. 12 SOUTH NORDIC DRIVE
POST OFFICE BOX 329
PETERSBURG, ALASKA 99833

SUBJECT: Project Title: **SOUTH HARBOR LAUNCH RAMP FISH CLEANING FLOAT**

Pursuant to and in compliance with subject Invitation to Bid, and other bid documents relating thereto, the bidder hereby proposes to furnish all labor and materials and to perform all work for the construction of the above referenced project in strict accordance with the bid documents at the prices established in the Bid Proposal, Pages **BP-1** through **BP-2** submitted herewith.

The bidder agrees, if awarded the contract, to commence and complete the work within the time specified in the bid documents.

The bidder acknowledges receipt of the following addenda:

Addenda No. _____	Date of Addenda _____
Addenda No. _____	Date of Addenda _____
Addenda No. _____	Date of Addenda _____
Addenda No. _____	Date of Addenda _____

Enclosed is a Bid Bond in the amount of _____.
(Dollar Amount or Percentage of Bid)

Type of Business Organization

The bidder, by checking the applicable box, represents that it operates as () a corporation incorporated under the laws of the State of _____, () an individual, () a partnership, () a non-profit organization, or () a joint venture. If a partnership or joint venture, identify all parties on a separate page.

_____	Alaska Contractor's License
Bidder/Company Name	Number: _____

_____	Employer's Tax Identification
Address of Bidder	Number: _____

_____	Signature
-------	-----------

Phone _____	_____
	Name/Title

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IV BID BOND

**PETERSBURG BOROUGH
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BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned _____

_____ as Principal and _____

_____ as Surety, are held and firmly bound unto the PETERSBURG BOROUGH, as Owner in the penal sum of _____ Dollars, for payment of which sum well and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns. Signed this _____ day of _____, 20____.

The condition of the above obligation is such that whereas the Principal has submitted to the Petersburg Borough, Alaska a certain Bid, attached hereto and hereby made a part hereof to enter into a contract in writing, for :

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NOW, THEREFORE

- a.) If said Bid shall be rejected, or in the alternate,
- b.) If said Bid shall be accepted and the Principal shall execute and deliver a contract in the Form of Contract attached hereto (properly completed in accordance with said Bid) and shall furnish a bond for his/her faithful performance of said contract, and a bond for the payment of all persons performing labor, furnishing materials or furnishing equipment in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said Bid,

then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety of any and all claims thereunder shall in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said surety and its bond shall be in no way impaired or affected by an extension of the time within which the Owner may accept such Bid; and said Surety does hereby waive notice of any such extension.

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BID BOND – PAGE 2

IN WITNESS WHEREOF, the Principal and Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, and day and year first set forth above.

Principal

BY: _____

Surety

BY: _____

(SEAL)

Principal

Surety

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V EQUAL EMPLOYMENT OPPORTUNITY

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EQUAL EMPLOYMENT OPPORTUNITY REQUIREMENTS

- I. The CONTRACTOR shall not discriminate against any employee or applicant for employment on the basis of race, religion, color, national origin, age, physical handicap, sex, marital status, changes in marital status, pregnancy or parenthood in the performance of this contract. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or other legally available remedies.
- II. Bidders are required to comply with Equal Opportunity Employment reporting requirements. Each bidder and proposed subcontractors as indicated must submit the following with their bid;
 - a. Equal Employment Opportunity Statement of Acknowledgement
- III. The CONTRACTOR shall include the provisions of this section in every contract and subcontract the CONTRACTOR enters into relating to the WORK such that the provisions herein are binding upon all parties involved in the WORK.
- IV. This Contract is subject to state and federal debarment certification requirements.

**STATE OF ALASKA
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

**EQUAL EMPLOYMENT OPPORTUNITY
STATEMENT OF ACKNOWLEDGEMENT**

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

PLEASE CHECK THE APPROPRIATE BOXES

THE Bidder proposed Subcontractor **hereby CERTIFIES:**

PART A. Bidders and proposed subcontractors with 50 or more employees and a federal contract amounting to \$50,000 or more are required to submit one federal EEO-1 report during each year the two conditions (50 employees and a \$50,000 federal contract) exist.

The company named below (Part C) is exempt from the requirements of submitting an EEO-1 report this year.

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

PART B. The company named below (Part C) has submitted an EEO-1 report this year, or intends to at this time.

NO YES

NOTE: On-line EEO-1 report filing may be accessed at the following web address:

<https://egov.eeoc.gov/eeo1/eeo1.jsp>

EEO-1 reporting and instructions may be obtained by writing or e-mail to:

EEO-1 Joint Reporting Committee
P.O. Box 78040
Washington, DC 20013-8040
Telephone 1-866-286-6440
Email: e1.techassistance@eeoc.gov

PART C.

Signature of Authorized Representative of Company

Date

Name of Company

(_____) _____
Telephone No.

Address of Company

Zip Code

Project Name

Contract Number

- Joint Reporting Committee
- Equal Employment Opportunity Commission
- Office of Federal Contract Compliance Programs (Labor)

EQUAL EMPLOYMENT OPPORTUNITY

EMPLOYER INFORMATION REPORT EEO-1

Standard Form 100
REV. 01/2006

O.M.B. No. 3045-0007
EXPIRES 01/2009
100-214

Section A—TYPE OF REPORT

Refer to instructions for number and types of reports to be filed.

1. Indicate by marking in the appropriate box the type of reporting unit for which this copy of the form is submitted (MARK ONLY ONE BOX).

(1) Single-establishment Employer Report

Multi-establishment Employer:

(2) Consolidated Report (Required)

(3) Headquarters Unit Report (Required)

(4) Individual Establishment Report (submit one for each establishment with 50 or more employees)

(5) Special Report

2. Total number of reports being filed by this Company (Answer on Consolidated Report only) _____

Section B—COMPANY IDENTIFICATION (To be answered by all employers)

1. Parent Company

OFFICE
USE
ONLY

a. Name of parent company (owns or controls establishment in item 2) omit if same as label

a.

Address (Number and street)

b.

City or town

State

ZIP code

c.

2. Establishment for which this report is filed. (Omit if same as label)

a. Name of establishment

d.

Address (Number and street)

City or Town

County

State

ZIP code

e.

b. Employer identification No. (IRS 9-DIGIT TAX NUMBER)

f.

c. Was an EEO-1 report filed for this establishment last year? Yes No

Section C—EMPLOYERS WHO ARE REQUIRED TO FILE (To be answered by all employers)

Yes No 1. Does the entire company have at least 100 employees in the payroll period for which you are reporting?

Yes No 2. Is your company affiliated through common ownership and/or centralized management with other entities in an enterprise with a total employment of 100 or more?

Yes No 3. Does the company or any of its establishments (a) have 50 or more employees AND (b) is not exempt as provided by 41 CFR 60-1.5, AND either (1) is a prime government contractor or first-tier subcontractor, and has a contract, subcontract, or purchase order amounting to \$50,000 or more, or (2) serves as a depository of Government funds in any amount or is a financial institution which is an issuing and paying agent for U.S. Savings Bonds and Savings Notes?

If the response to question C-3 is yes, please enter your Dun and Bradstreet identification number (if you have one):

NOTE: If the answer is yes to questions 1, 2, or 3, complete the entire form, otherwise skip to Section G.

Section D-EMPLOYMENT DATA

Employment at this establishment - Report all permanent full- and part-time employees including apprentices and on-the-job trainees unless specifically excluded as set forth in the instructions. Enter the appropriate figures on all lines and in all columns. Blank spaces will be considered as zeros.

Job Categories	Number of Employees (Report employees in only one category)														
	Race/Ethnicity														
	Hispanic or Latino		Not-Hispanic or Latino												Total Col A - N
	Male	Female	Male						Female						
White			Black or African American	Native Hawaiian or Other Pacific Islander	Asian	American Indian or Alaska Native	Two or more races	White	Black or African American	Native Hawaiian or Other Pacific Islander	Asian	American Indian or Alaska Native	Two or more races		
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
Executive/Senior Level Officials and Managers 1.1															
First/Mid-Level Officials and Managers 1.2															
Professionals 2															
Technicians 3															
Sales Workers 4															
Administrative Support Workers 5															
Craft Workers 6															
Operatives 7															
Laborers and Helpers 8															
Service Workers 9															
TOTAL 10															
PREVIOUS YEAR TOTAL 11															

1. Date(s) of payroll period used: _____ (Omit on the Consolidated Report.)

Section E - ESTABLISHMENT INFORMATION (Omit on the Consolidated Report.)

1. What is the major activity of this establishment? (Be specific, i.e., manufacturing steel castings, retail grocer, wholesale plumbing supplies, title insurance, etc. Include the specific type of product or type of service provided, as well as the principal business or industrial activity.)

Section F - REMARKS

Use this item to give any identification data appearing on the last EEO-1 report which differs from that given above, explain major changes in composition of reporting units and other pertinent information.

Section G - CERTIFICATION

Check 1 All reports are accurate and were prepared in accordance with the instructions. (Check on Consolidated Report only.)
 one 2 This report is accurate and was prepared in accordance with the instructions.

Name of Certifying Official	Title	Signature	Date
Name of person to contact regarding this report	Title	Address (Number and Street)	
City and State	Zip Code	Telephone No. (including Area Code and Extension)	Email Address

All reports and information obtained from individual reports will be kept confidential as required by Section 709(e) of Title VII. WILLFULLY FALSE STATEMENTS ON THIS REPORT ARE PUNISHABLE BY LAW, U.S. CODE, TITLE 18, SECTION 1001

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VI NON-COLLUSION AFFIDAVIT

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VII OWNER-CONTRACTOR AGREEMENT

- 13. Performance and Payment Bonds
- 14. State of Alaska Laborer's and Mechanic's Minimum Rates of Pay, latest edition at bid
- 15. Notice of Award
- 16. Notice to Proceed

These form the Contract, and all are as full a part of the Contract as if attached to this Agreement or repeated herein.

Article 2 The Work

The Contractor shall perform all Work required by the Contract Documents for furnishing all labor, materials, equipment, tools, transportation and supplies necessary. All Work shall be in accordance with the project plans and specifications.

Article 3 Times of Commencement and Completion

The Work to be performed under this Contract shall be commenced within ten (10) days following receipt of a written Notice to Proceed.

Substantial completion for all Work shall be achieved no later than September 15, 2014. Final Contract Completion shall be achieved no later than September 30, 2014.

_____, the Contractor, and his Sureties shall be liable for and shall pay the Owner the sum of one thousand dollars (\$1,000) per calendar day of delay beyond the substantial and final completion dates stipulated above.

Article 4 Contract Sum

The Owner shall pay the Contractor in U.S. funds for the performance of the Work, subject to additions and deductions by change order as provided in the Contract Documents, the contract sum of _____ (\$_____). The contract sum is determined as the total amount bid as shown on the bid proposal attached hereto.

Article 5 Payments

Payments shall be made in accordance with Division 10, Section 10.07 of CPSS.

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VIII CONTRACT PERFORMANCE AND PAYMENT BONDS

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PERFORMANCE BOND**

KNOW ALL MEN BY THESE PRESENTS:

That we _____, a
(name of contractor)

_____ hereinafter called "Principal" and
(Corporation, Partnership, Individual)

_____ of _____, State of

_____ hereinafter called the "Surety " are held and firmly bound
(Surety)

unto _____ of _____
(Owner)

hereinafter called "Owner", in the penal sum of _____

_____ dollars(\$_____)

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

THE CONDITION OF THIS OBLIGATION is such that Whereas, the Principal has or is about to enter into a certain contract with the Owner, a copy of which is hereto attached and made a part hereof for the construction of:

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

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

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PERFORMANCE BOND – PAGE 2

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

IN WITNESS WHEREOF, this instrument is executed in five (5) counterparts, each one of which shall be deemed an original, this the _____ day of _____, 20_____.

ATTEST:

(Principal)

(Principal's) Corporate Secretary

BY: _____

(Affix CORPORATE SEAL if applicable)

(Address - Zip Code)

Witness as to Principal

Address - Zip Code

(Surety)

ATTEST:

BY: _____

Attorney -in- fact

(Surety) Secretary

Address - Zip Code

(Affix SURETY'S SEAL)

Witness as to Surety

Address - Zip Code

Note: if principal is partnership, all partners must execute bond

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PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS:

That we _____, a
(name of contractor)

_____ hereinafter called "Principal" and
(Corporation, Partnership, Individual)

_____ of _____, State of
(Surety)

_____ hereinafter called the "Surety " are held and firmly bound

unto Petersburg Borough hereinafter called "Owner", in the penal sum of

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

THE CONDITION OF THIS OBLIGATION is such that Whereas, the Principal has or is about to enter into a certain contract with the Owner, a copy of which is hereto attached and made a part hereof for the construction of:

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

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

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PAYMENT BOND – PAGE 2

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

IN WITNESS WHEREOF, this instrument is executed in five (5) counterparts, each one of which shall be deemed an original, this the _____ day of _____, 20_____.

ATTEST:

(Principal)

(Principal's) Corporate Secretary

BY: _____

(Affix CORPORATE SEAL if applicable)

(Address - Zip Code)

Witness as to Principal

Address - Zip Code

(Surety)

ATTEST:

BY: _____

Attorney -in- fact

(Surety) Secretary

Address - Zip Code

(Affix SURETY'S SEAL)

Witness as to Surety

Address - Zip Code

Note: if principal is partnership, all partners must execute bond

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IX MINIMUM RATES OF PAY

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ALASKA LABOR STANDARDS, REPORTING AND PREVAILING WAGE DETERMINATION

- I. General: The Contractor shall be responsible to pay all workers the minimum state wage rates listed herein.
- II. Alaska Statutes AS 36.05.010, AS 36.05.040, AS 36.05.045, State of Alaska, Department of Labor and Workforce Development, Laborers' and Mechanics' Minimum Rates of Pay, Title 36, Public Contracts AS 36.05. and AS 36.10 Wage and Hour Administration Pamphlet No. 600, the latest edition published by the State of Alaska, Department of Labor and Workforce Development all inclusive, are made a part of this Contract by reference.
- A. The current state prevailing rate of wages is that contained in the latest determination of prevailing rate of wages issued by the Department of Labor and Workforce Development 10 days before the final date for submission of bids for the contract. The rate shall remain in effect for the life of the contract or for 24 calendar months, whichever is shorter. At the end of the initial 24-month period, if new wage determinations have been issued, the latest wage determination shall become effective for the next 24-month period or until the contract is completed whichever occurs first. This process shall be repeated until the contract is completed.
- B. The Contractor is responsible for contacting the Alaska Department of Labor to determine compliance with current regulations prior to bid.
- III. Minimum Required Reporting During Contract (to be reported by every Contractor and Subcontractor):
- A. Before Friday each week, each Contractor and Subcontractor must file Certified Payrolls with Statements of Compliance for the preceding week. If there was no activity for that week, indicate "No Activity." Indicate "Start" on your first payroll and "Final" on your last payroll for this project. Send to:
- | | |
|------------------------------------|--------------------------|
| Labor Standards & Safety, DOLWD | Petersburg Borough |
| P. O. Box 111149 | Borough Manager |
| 1111 W. 8th Street, Rm 302 | P.O. Box 329 |
| Juneau, AK 99811-1149 | Petersburg, Alaska 99833 |
| (907) 465-4842 Fax: (907) 465-3584 | (907) 772-4511 |
- B. Within 10 days of Notice of Award/Notice to Proceed the Contractor shall file a notice of work with the Department of Labor and Workforce Development and the Petersburg Borough at the addresses listed above. The notice of work must list work to be performed by each contractor and subcontractor who will perform any portion of work on the contract and the contract price being paid to each contractor. Include subcontractor's names, addresses, phone numbers and estimated start and finish dates.
- C. Upon completion of all Work the Contractor shall file with the Department of Labor and Workforce Development a notice of completion as per AS 36.05.045.
- D. As part of the final payment request package, provide the following:

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1. Alaska Department of Labor and Workforce Development issued notification of compliance with AS 36.05.045.
2. A completed Compliance Certificate and Release form from every Contractor and Subcontractor.
3. A final Subcontractor list complete with final subcontract amounts and including all equipment rentals (with operators).

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X CPSS SPECIAL PROVISIONS

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SPECIAL PROVISIONS

GENERAL INFORMATION

1. LOCATION AND SCOPE

All proposed Work is located near Mitkof Island in the vicinity of Petersburg, Alaska. A vicinity map is provided on the plans. The Work included under this Contract consists of furnishing all labor, materials, equipment, supervision, and other facilities necessary to successfully complete the Work set forth in the Contract Documents. It shall be the responsibility of the Bidder to prepare his/her bid so that all Work shall conform to the intent of the Contract Documents.

2. REFERENCE TO CITY OF PETERSBURG STANDARD SPECIFICATIONS (CPSS)

This Contract is subject to and hereby incorporates by reference the City of Petersburg Standard Specifications: Streets - Drainage - Utilities - Parks, dated 2012, hereafter referred to as **CPSS**. These Special Provisions amend the CPSS. Standard details (CPSD) contained in the CPSS are also to be considered a part of this contract. Details shown on the plans shall govern over any like standard details contained in the CPSS unless otherwise noted in the Special Provisions.

MODIFICATIONS AND/OR ADDITIONS TO THE CITY OF PETERSBURG STANDARD SPECIFICATIONS

Subsequent to the publishing of the CPSS the City of Petersburg became a borough within the State of Alaska and is now known and legally recorded as the Petersburg Borough. Hence all references to the City, the City of Petersburg, or any variation thereof shall be modified to read Petersburg Borough in the form consistent with the reference thereto.

The following provisions of CPSS are hereby amended:

DIVISION 10 - GENERAL PROVISIONS

SECTION 10.02 BIDDING REQUIREMENTS AND CONDITIONS

Article 2.4 Bid Guarantee

Replace the words “ten percent (10%)” with the words “five percent (5%)” in the first sentence.

SECTION 10.03 AWARD AND EXECUTION OF CONTRACT

Article 3.2 Receipt and Opening of Bids

Add the following to the end of the second paragraph:

Telegraphic modifications shall be received by Fax at Ph. (907) 772-3759.

Article 3.6 Execution of Contract

Replace the words “five (5)” with the words “ten (10)” in the first sentence

SECTION 10.04 SCOPE OF WORK

Article 4.3 Submittal List

Replace the first sentence with the following:

The Contractor shall complete, submit and comply with all requirements as indicated in the Submittal List provided by the Engineer during construction.

SECTION 10.05 CONTROL OF WORK

Article 5.4 Non-Working Hours, Holidays, Saturdays, and Sundays

Delete the second paragraph in its entirety.

Article 5.22 Time for Completion of Work

Replace the first sentence in the first paragraph with the following:

The Contract Commencement and Completion Dates are stipulated in Article 3 of the Owner-Contractor Agreement.

Article 5.27 Liquidated Damages

Replace the words “the Special Provisions” with “Article 3 of the Owner-Contractor Agreement” at two locations of the first paragraph.

SECTION 10.06 LEGAL RELATIONS AND RESPONSIBILITIES

Article 6.9 Insurance

Replace the last sentence of the first paragraph with the following:

All General Liability and Automobile Liability insurance policies required under this Article shall name the City and the Engineer as additional insured for the purposes of the Project and shall contain waivers of subrogation against each.

SECTION 10.07 MEASUREMENT AND PAYMENT

Article 7.1 Method of Measurement

Delete all paragraphs except the first paragraph.

DIVISIONS 15-70

All articles titled; “**MEASUREMENT**” and “**BASIS OF PAYMENT**” shall be deleted in their entirety. Measurements and payments shall be made as described in the Supplemental Technical Specification

SECTION 01025 MEASUREMENT AND PAYMENT. Applicable sections within the CPSS for which there is no direct reference within Section 01025, Measurement and Payment shall be considered incidental to other pay items.

END OF SECTION

**PETERSBURG BOROUGH
SOUTH HARBOR LAUNCH RAMP
FISH CLEANING FLOAT**

XI SUPPLEMENTAL TECHNICAL SPECIFICATIONS

**PETERSBURG BOROUGH
SOUTH HARBOR LAUNCH RAMP
FISH CLEANING FLOAT**

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SECTION 01010 - SUMMARY OF WORK

PART 1 – GENERAL

1.1 GENERAL

A. The WORK to be performed under this contract shall consist of furnishing all plant, tools, equipment, materials, supplies, manufactured articles, labor, transportation and services, including fuel, power, water, and essential communications, and performing all WORK, or other operations required for the fulfillment of the contract in strict accordance with the Contract Documents. The WORK shall be complete, and all work, materials, and services not expressly indicated or called for in the Contract Documents which may be necessary for the complete and proper construction of the WORK in good faith shall be provided by the CONTRACTOR as though originally so indicated, at no increase in cost to the OWNER.

1.2 WORK COVERED BY CONTRACT DOCUMENTS

A. The WORK consists of various quantities of mobilization, demolition, salvage, timber float, transition plate assembly, steel pipe piles and all miscellaneous associated appurtenances.

1.3 SITE OF THE WORK

A. The site of the WORK is located in Petersburg, Alaska at South Harbor.

1.4 BEGINNING AND COMPLETION OF THE WORK

A. Time is the essence of the contract. All WORK shall be completed in accordance with the following schedule:

<u>WORK DESCRIPTION</u>	<u>COMPLETION DATE</u>
Substantial Completion for all Work	September 15, 2014
Final Completion for all Work under the Contract Documents	September 30, 2014

1.5 CONTRACT METHOD

A. The WORK hereunder will be constructed under a unit-price contract.

1.6 CONTRACTOR USE OF PROJECT SITE

A. The CONTRACTOR's use of the Project site shall be limited to its construction operations, including on-site storage of materials. The CONTRACTOR shall coordinate with the Harbormaster for confirmation of final staging area limits.

1.7 OWNER USE OF THE PROJECT SITE

A. The OWNER may utilize all or part of the existing site during the entire period of construction for the conduct of the OWNER's normal operations. The CONTRACTOR shall cooperate and coordinate with the ENGINEER to facilitate the OWNER's operations and to minimize interference with the CONTRACTOR's operations at the

SECTION 01010 - SUMMARY OF WORK

same time. In any event, the OWNER shall be allowed access to the Project site during the period of construction.

1.8 PROJECT MEETINGS

A. Pre-Construction Conference

1. Prior to the commencement of WORK at the site, a Pre-Construction Conference will be held at a mutually agreed time and place which shall be attended by the CONTRACTOR's Project manager, its superintendent, and its Subcontractors as the CONTRACTOR deems appropriate. Other attendants will be:
 - a. ENGINEER and the Inspector.
 - b. Representatives of OWNER.
 - c. Governmental representatives as appropriate.
 - d. Others as requested by CONTRACTOR, OWNER, or ENGINEER.
2. Unless previously submitted to the ENGINEER, the CONTRACTOR shall bring one copy each of the following:
 - a. Plan of Operation.
 - b. Project Overview Bar Chart Schedule.
 - c. Procurement schedule of major equipment and materials and items requiring long lead time.
 - d. Shop Drawing/Sample/Substitute or "Or Equal" submittal schedule.
 - e. Name and telephone number of CONTRACTOR's Project Supervisor.
3. The purpose of the Pre-Construction Conference is to designate responsible personnel and establish a working relationship. Matters requiring coordination will be discussed and procedures for handling such matters established. The complete agenda will be furnished to the CONTRACTOR prior to the meeting date.

The CONTRACTOR should be prepared to discuss all of the items listed below:

- a. Status of CONTRACTOR's insurance and bonds.
 - b. CONTRACTOR's tentative schedules.
 - c. Transmittal, review, and distribution of CONTRACTOR's submittals.
 - d. Processing applications for payment.
 - e. Maintaining record documents.
 - f. Critical WORK sequencing.
 - g. Field decisions and Change Orders.
 - h. Use of Project site, office and storage areas, security, housekeeping, and OWNER's needs.
 - i. Major equipment deliveries and priorities.
 - j. CONTRACTOR's assignments for safety and first aid.
4. The OWNER will preside at the Pre-Construction Conference and will arrange for keeping and distributing the minutes to all persons in attendance.
 5. The CONTRACTOR and its Subcontractors should plan on the conference taking no less than 2 hours. The items listed in paragraph 3 will be covered as well as reviewing the plans and specifications, in extensive detail, with the ENGINEER and the OWNER.

SECTION 01010 - SUMMARY OF WORK

B. Progress Meetings

1. The CONTRACTOR shall schedule and hold regular on-site progress meetings at least monthly and at other times as requested by the ENGINEER, or as required by progress of the WORK. The CONTRACTOR, ENGINEER, and all subcontractors active on the site must attend each meeting. CONTRACTOR may at its discretion request attendance by representatives of its suppliers, manufacturers, and other subcontractors.
2. The ENGINEER shall preside at the meetings and will arrange for keeping and distributing the minutes. The purpose of the meetings will be to review the progress of the WORK, maintain coordination of efforts, discuss changes in scheduling, and resolve other problems which may develop. During each meeting, the CONTRACTOR is required to present any issues which may impact its work, with a view to resolve these issues expeditiously.

- 1.9 DEFINITIONS APPLICABLE TO TECHNICAL SPECIFICATIONS. The following words have the meaning defined in the Technical Portions of the WORK:

Furnish - means to supply and deliver to the site, to unload and unpack ready for assembly, installation, testing, and start-up.

Indicated - is a word used to direct the CONTRACTOR to information contained on the drawings or in the Specifications. Terms such as "shown," "noted," "scheduled," and "specified" also may be used to assist in locating information but no limitation of location is implied or intended.

Install - defines operations at the site including assembly, erection, placing, anchoring, applying, shaping to dimension, finishing, curing, protecting, and cleaning, ready for the OWNER's use.

Installer - a person or firm engaged by the CONTRACTOR or its subcontract or any subcontractor for the performance of installation, erection, or application work at the site. Installers must be expert in the operations they are engaged to perform.

Provide - is defined as furnish and install, ready for the intended use.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01025 - MEASUREMENT AND PAYMENT

PART 1-GENERAL

1.1 SCOPE

- A. Payment for the various items of the Bid Schedule, as further specified herein, shall include all compensation to be received by the CONTRACTOR for furnishing all tools, equipment, supplies, and manufactured articles, and for all labor, operations, and incidentals appurtenant to the items of WORK being described, as necessary to complete the various items of the WORK all in accordance with the requirements of the Contract Documents, including all appurtenances thereto, and including all costs of PERMITS and cost of compliance with the regulations of public agencies having jurisdiction, including Safety and Health Requirements of the Occupational Safety and Health Administration of the U.S. Department of Labor (OSHA).
- B. No separate payment will be made for any pay item that is not specifically set forth in the Bid Schedule, and all costs therefore shall be included in the prices named in the Bid Schedule for the various appurtenant items of WORK.
- C. In addition to other incidental items of WORK listed elsewhere in the contract, the following items shall also be considered as incidental to other items of WORK under this contract:
 - 1. Removal and replacement of survey monuments and markers disturbed during construction, whether shown on the Plans or not.
 - 2. Re-vegetating areas disturbed during construction.
 - 3. Siltation and pollution control.
 - 4. Maintenance of all services through the Project area, including water, storm, garbage pickup, mail delivery, other deliveries and emergency vehicles.
 - 5. All traffic control, including flaggers.
 - 6. Miscellaneous connecting and attachment hardware as required to install new equipment.
 - 7. Transport, shipping and delivery of all materials to the project site, undamaged and in new condition.
 - 8. Trench excavation and bedding for as required for all piping, structures and vault installations.
 - 9. Minor grading of fill materials as required to maintain positive surface drainage.
 - 10. Pile splices required to make up the pile lengths shown in the pile schedule.
 - 11. Coordination with the work being performed by others on the site.

1.2 MOBILIZATION (Pay Item No. 1505.1) PRICE BASED ON LUMP SUM

- A. Measurement for payment for Mobilization shall be based upon the completion of the entire WORK as a Lump Sum Pay unit, complete, all in accordance with the requirements of the Contract Documents.
- B. Payment for Mobilization shall be made at the amount shown under Pay Item No. 1505.1, which payment shall constitute full compensation for all WORK described in Section 01505 - Mobilization, as shown on the Plans and as directed by the ENGINEER.

SECTION 01025 - MEASUREMENT AND PAYMENT

- C. Partial payments will be made as the WORK progresses as follows:
1. When 5% of the total original contract amount is earned from other pay items, 50% of the amount bid for Mobilization, or 5% of the original contract amount, whichever is lesser, will be paid.
 2. When 10% of the total original contract amount is earned from other pay items, 100% of the amount bid for Mobilization, or 10% of the original contract amount, whichever is lesser, will be paid.
 3. Upon completion of all WORK on the Project, payment of any amount bid for Mobilization in excess of 10% of the total original contract amount will be paid.

2.1 DEMOLITION AND SALVAGE (Pay Item No. 2060.1) PRICE BASED ON LUMP SUM

- A. Measurement for payment for Demolition and Salvage shall be based upon the completion of the entire WORK as a Lump Sum, Pay Unit, including removal of existing transition plate assembly, concrete float, two steel float mooring/anchor piles, and other associated items complete, and in accordance with the requirements of the Contract Documents and as shown on the Plans.
- B. Payment for Demolition and Salvage shall be made at the amount shown on the Bid Schedule under Pay Item No. 2060.1, which payment will constitute full compensation for all WORK described in Section 02060 - Demolition and Salvage, as shown on the Plans and as directed by the ENGINEER.

2.2 INSTALL SALVAGED FLOAT TRANSITION PLATE ASSEMBLY (Pay Item No. 2894.1) PRICE BASED ON LUMP SUM

- A. Measurement for payment for Supply and Install Salvaged Float Transition Plate Assembly will be based upon the completion of the entire WORK as a Lump Sum Pay Unit, complete, in accordance with the requirements of the Contract Documents and as shown on the Plans.
- B. Payment for Install Salvaged Float Transition Plate Assembly shall be made at the amount shown on the Bid Schedule under Pay Item No. 2894.1, which payment will constitute full compensation for all WORK described in Section 02894 – Float Transition Plate, as shown on the Plans and as directed by the ENGINEER.

2.3 FISH CLEANING FLOAT, 20' X 42' (Pay Item No. 2895.1) PRICE BASED ON LUMP SUM

- A. Measurement for payment for Fish Cleaning Float, 20' x 42' shall be based upon the completion of the entire WORK as a Lump Sum Pay Unit, complete, including fabrication and installation of all float units, steel connection pin assemblies, steel pipe bullrail, fiberglass plate decking, and all hardware and other associated appurtenances, all in accordance with the requirements of the Contract Documents and as shown on the Plans.

SECTION 01025 - MEASUREMENT AND PAYMENT

- B. Payment for Fish Cleaning Float, 20' x 42', shall be made at the amount shown on the Bid Schedule under Pay Item No. 2895.1, which payment will constitute full payment for all WORK described in Section 02895 - Timber Floats, as shown on the Plans and as directed by the ENGINEER.
- 2.4 FURNISH AND INSTALL STEEL PIPE PILES, 12 3/4" dia. x 0.500" t (Pay Item No. 2896.1) PRICE BASED ON QUANTITY, EACH
- A. Measurement for payment for Furnish and Install Steel Pipe Piles, 12 3/4" dia. x 0.500" t shall be measured per each, complete in place, including steel pile, fiberglass cap and reinforced pile tip, all in accordance with the requirements of the Contract Documents and as shown on the Plans. Steel pipe piles shall be furnished by the CONTRACTOR in the lengths indicated on the Plans.
- B. Payment for Furnish and Install Steel Pipe Piles, 12 3/4" dia. x 0.500" t shall be made at the Unit Price named in the Bid Schedule under Pay Item No. 2896.1, which payment will constitute full compensation for all WORK described in Section 02896 - Steel Pipe Piles, as shown on the Plans and as directed by the ENGINEER.
- 2.5 INSTALL SALVAGED 12 3/4" STEEL PIPE PILES (Pay Item No. 2896.2) PRICE BASED ON QUANTITY, EACH
- A. Measurement for payment for Install Salvaged 12 3/4" Steel Pipe Piles shall be measured per each, complete, in place, including salvaged steel piles and fiberglass caps, all in accordance with the requirements of the Contract Documents and as shown on the Plans.
- B. Payment for Install Salvaged 12 3/4" Steel Pipe Piles shall be made at the Unit Price named in the Bid Schedule under Pay Item No. 2896.2, which payment will constitute full compensation for all WORK described in Section 02896 – Steel Pipe Piles, as shown on the Plans and as directed by the ENGINEER.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01505 - MOBILIZATION

PART 1 - GENERAL

1.1 GENERAL

- A. Mobilization shall include the obtaining of all permits; moving onto the site of all plant and equipment; furnishing and erecting plants, temporary buildings, and other construction facilities; and implementing security requirements; all as required for the proper performance and completion of the WORK. Mobilization shall include the following principal items:
1. Moving on to the site of all CONTRACTOR's plant and equipment required for operations.
 2. Providing all on-site communication facilities, including radios and cellular phones.
 3. Obtaining all required permits.
 4. Having all OSHA required notices and establishment of safety programs.
 5. Having the CONTRACTOR's superintendent at the job site full time.
 6. Submitting initial submittals.

1.2 PAYMENT FOR MOBILIZATION

- A. The CONTRACTOR's attention is directed to the condition that no payment for Mobilization or any part thereof, will be approved for payment under the contract until all Mobilization items listed above have been completed as specified.
- B. As soon as practicable after receipt of the Notice to Proceed, the CONTRACTOR shall submit a breakdown to the ENGINEER for approval, which shall show the estimated value of each major component of Mobilization. When approved by the ENGINEER, the breakdown will be the basis for initial progress payments in which Mobilization is included.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION (Not Used)

END OF SECTION

SECTION 02060 – DEMOLITION AND SALVAGE

PART 1 - GENERAL

1.1 DESCRIPTION

- A. The WORK under this Section shall include all labor, materials, tools and equipment necessary for the demolition and salvage of all items as designated herein and as shown on the Plans. The CONTRACTOR shall provide an appropriate disposal site for all items designated to be disposed. Demolition and disposal methods shall meet all local, state and federal regulations.

PART 2 - PRODUCTS (Not Used).

PART 3 - EXECUTION

3.1 EXAMINATION AND PREPARATION

- A. Examine conditions on site with ENGINEER and OWNER prior to commencement of WORK. OWNER shall perform some portions of demolition. Coordinate with OWNER prior to commencement of demolition to schedule OWNER and CONTRACTOR Work elements.
- B. Conduct demolition to minimize interference with adjacent structures and interruption to public services.
- C. Cease operations immediately if adjacent structures appear to be in danger and notify ENGINEER. Do not resume operations until directed by ENGINEER.

3.2 DEMOLITION AND DISPOSAL

- A. The CONTRACTOR shall coordinate with OWNER on the schedule and sequencing of pile removal at least five working days prior to commencement of any demolition activities.
- B. Demolish and dispose all other incidental and miscellaneous items as required to complete the project.
- C. Place construction signs and barricades as required preventing public entry into WORK area.
- D. Repair any damage to existing facilities designated to remain.

END OF SECTION

SECTION 02895 - TIMBER FLOATS

PART 1 - GENERAL

1.1 DESCRIPTION

- A. The WORK in this Section shall include all labor, materials, tools and equipment necessary for fabrication, handling and transport of the complete fish cleaning float, consisting of all float module units, steel pipe bullrails, steel pile hoops, fiberglass deck plates, connection pin assemblies, UHMW rubstrips, corner bumpers, all miscellaneous appurtenances and associated connecting hardware, and all other related Work in accordance with the requirements of the Contract Documents and as shown on the Plans.

1.2 REFERENCES

- A. AWWPA (American Wood Preservers Association), 2002 Standards
- B. WWPA (Western Wood Products Association) Western Lumber Grading Rules, 1998
- C. AISC (American Institute of Steel Construction) Code of Standard Practice - Manual of Steel Construction (ASD).
- D. ASTM (American Society of Testing Materials) Specifications

1.3 SUBMITTALS

- A. Timber Fabrication Shop Drawings for all fabricated timber items.
- B. Float Fabrication/Assembly Drawings - Float Fabrication/Assembly Drawings shall illustrate and coordinate all elements (timbers, steel weldments, assemblies, HDPE floatation, ballast tanks, hardware and foam billets) that make up each typical type of float module, including the location and position of the elements on the individual float and/or complete float system.
- C. Timber Grading and Pressure Treatment Certification for all timbers utilized for fabrication of float components.
- D. Timber Treatment product for field treatment of float timbers. Submit product specifications from the manufacturer for field treating of both ACZA treated timbers and creosote treated timbers.
- E. Structural Steel Submittals per Section 05120 – Metal Fabrication. Steel fabrication drawings must be approved by the ENGINEER prior to cutting, drilling and treatment of timbers. CONTRACTOR shall coordinate shop drawing submittals between float fabricator and steel fabricator so as to submit both timber and steel fabrication shop drawings simultaneously.
- F. Coated Polystyrene Flotation Billet Shop Drawings. Submit complete shop drawings illustrating geometry, chamfers, and any required notches for each billet type. Provide technical data on billet coating product. Data shall include product description, color,

SECTION 02895 - TIMBER FLOATS

performance characteristics, and limitations.

- G. UHMW (Ultra High Molecular Weight) Polyethylene - Submit product specific material specifications and Fabrication Shop Drawings for each type of UHMW piece.
- H. Polyethylene Floatation Tubs – Submit manufacturer’s published literature for specific product including material specifications, drawings illustrating overall dimensions, typical sections and wall thickness, and fabrication and dimensional tolerances.
- I. Polyethylene Ballast Drums – Submit manufacturer’s published literature for specific product including material specifications, drawings illustrating overall dimensions, typical sections and wall thickness, and fabrication and dimensional tolerances. Necessary modifications to a manufactured product shall be detailed with corresponding shop fabrication drawings.
- J. Fiberglass Deck Plate – Submit shop drawings of all required fiberglass deck plate which clearly showing material sizes, type, part or catalog number; complete details for the fabrication and installation including location, lengths, widths, type and sizes of fasteners, and connection details. Submit (2) product samples for ENGINEER evaluation of quality and color, along with manufacturer’s published literature for specific product and accessories, as applicable, including manufacturer’s specifications, physical characteristics, fabrication and dimensional tolerance data, product warranty and options for coarseness of anti-slip surface.
- K. Float Corner Bumpers. Submit manufacturer information which shall include product description, product illustration, model number, dimensions, and proposed attachment method.
- L. Float Handling Plan – Fabricator shall coordinate with all transport companies to submit a float handling plan for review and approval, by the ENGINEER, prior to handling and transporting of any float units. Plan shall describe all lifting equipment and devices as well as proposed transport configuration of multiple float units.
- M. Float Fabricator’s Quality Assurance Program - Submit copy of quality assurance program float fabricator proposes to use during the float fabrication process.

PART 2 - PRODUCTS

- 2.1 MATERIALS - All materials shall conform to the Contract Documents and as shown on the Plans. Purchase orders shall contain all necessary information to ensure that materials purchased will comply with the fore mentioned documents. The Fabricator shall inspect all materials, upon arrival, for conformance with the purchase orders as well as the requirements described in the Delivery, Storage and Protection Section herein. The Fabricator shall also confirm that mill certificates and test reports are provided, and that they correctly identify the materials delivered. If a supplier proposes a substitute for any material, the proposed substitution shall be submitted to the ENGINEER for approval prior to commencing any work involving use of the proposed substitute

SECTION 02895 - TIMBER FLOATS

material. Supplier shall supply specified materials if the proposed substitution is not approved by the ENGINEER.

- A. All glued-laminated members shall be manufactured with Coast Region Douglas Fir that conforms to AITC Standard No. 117-87 specifications and shall be manufactured in balanced combinations having equal design values for both the positive and negative bending. The glulam members shall have an industrial finish, unless otherwise noted herein, shall be for exterior use and have design values equal to or exceeding the following when loaded perpendicular to the widest faces of the laminations.

Bending (Fb) = 2,200 psi

Horizontal Shear (Fv) = 165 psi

Modulus of Elasticity (E) = 1,700,000 psi

Unless otherwise noted, all glued-laminated timbers shall be pressure treated with creosote per AWPA C-28 to a minimum retention of 12 pounds per cubic foot. Fabrication and drilling of timber shall be completed as much as possible before pressure treatment. Field drilled holes, cuts and minor damaged areas shall be field treated per AWPA M-4, with an ENGINEER approved treatment product. Glued-laminated timber ends that have been field cut after treatment shall be scatter nailed with 3-inch copper nails at 2 inches on-center each way in addition to field treatment. Bolt holes shall be 1/8 inch oversized. Glued-laminated walers and rubstrips shall be pressure treated with ACZA per AWPA C-2 to a net dry salt retention of not less than 0.6 pounds per cubic foot.

- B. All sawn timber shall be surfaced four sides (S4S), and conform to No. 1 and better Coastal Region Douglas Fir, according to WCLIB Grading Rules, unless otherwise noted herein. No individual timber shall fall outside the specified grade. Each piece of lumber shall be stamped with a grade mark, which identifies the grading and certification, and shall be so marked as to be legible after pressure treatment. All sawn timber shall be pressure treated. Sawn timber located above waterline shall be pressure treated with ACZA per AWPA C-2 to a net dry salt retention of not less than 0.6 pounds per cubic foot. Sawn timber located below waterline shall be pressure treated with creosote per AWPA C-28 to a minimum retention of 12 pounds per cubic foot. Fabrication and drilling of timber shall be done as much as possible before pressure treatment. Field drilled holes, cuts and minor damaged areas shall be field treated per AWPA M-4, with an ENGINEER approved treatment product. Bolt holes shall be 1/8 inch oversized.

Deck timbers shall be of Coastal Region Douglas Fir, S1S2E with 1/8-inch chamfered top edges, and shall conform to Select Structural with additional "Appearance" limitations, according to WCLIB Grading Rules. Only whole, full-width and full length deck timbers shall be installed on any float unit. Upon arrival to project site, gap widths between installed deck timbers shall be a minimum of 1/8-inch and a maximum of 3/8-inch. As much as possible, deck timbers shall be evenly spaced along entire length of float unit. Fabricator shall determine total number of deck boards required to achieve the spacing requirements indicated above, and shall layout deck boards along entire length of each float unit prior to nailing of timbers. Aesthetics are important for deck timbers; consequently, fabricator shall ensure deck material has minimal amount of wane. Deck

SECTION 02895 - TIMBER FLOATS

timbers containing wane shall be installed with wane facing down and top face rough cut per specifications.

- C. Flotation billets shall be closed-cell, expanded polystyrene, in accordance with ASTM C578. Minimum requirements shall be as follows:
1. Density – between 0.9 and 1.0 pounds per cubic foot
 2. Contain not greater than 5% regrind material
 3. Compressive Strength - 10 psi minimum at 10% deformation
 4. Flexural Strength - 25 psi minimum
 5. 4% maximum water absorption by volume as tested by ASTM C-272
 6. All flotation billets shall be coated on all sides with “Polyshield SS-100”, or approved equal, coating of sixty-five (65) mils in thickness, minimum. All utility trenches shall be coated on all sides to a thickness of seventy-five (75) mils, minimum. Coating shall be spray applied and cured per manufacturer recommendations. Alternative coatings shall either meet or exceed the characteristics of this material and be acceptable to the governing agencies for construction in the marine environment.

All flotation billets shall be of one piece, as shown on the Plans, without laminations or glued joints. Billet dimensional tolerances shall be as follows: (Submit billet geometry for ENGINEER review)

1. Width – Shall be +/- 1/8”
 2. Length – Shall be +/- 1/8”
 3. Depth – Shall be +/-1/8”
- D. Miscellaneous steel plates and shapes shall be ASTM A36, galvanized per ASTM A123 or A153, and comply with Section 05120 - Metal Fabrication.
- E. All fabricated metal weldments and assemblies including float connections, pipe hinges, transition plates, pile hoops, etc. shall comply with Section 05120 - Metal Fabrication.
- F. Bolts and miscellaneous hardware shall comply with Section 05120 – Metal Fabrication.
- G. All Ultra High Molecular Weight (UHMW) Polyethylene components shall be manufactured from virgin polyethylene material, be U.V. stabilized and shall be partially cross-linked. UHMW components shall be black in color, unless otherwise noted, and edges chamfered as shown on Plans.
- K. Float Corner Bumpers shall be Model DU-5C, as manufactured by *C-Marine Products, Inc.*, or approved equal. Color shall be black. Attachment of corner bumpers shall use Type 316 stainless steel or hot-dip galvanized fasteners. Size, location, and number of attachment fasteners per corner bumper shall be per manufacturer’s recommendations.
- L. Polyethylene flotation tubs shall be as manufactured by *Den Hartog Industries, Inc.*, or approved equal, shall be one-piece rotational molded, with UV inhibitors, and be

SECTION 02895 - TIMBER FLOATS

rectangular in shape with the dimensions and minimum wall thickness as shown on the Plans. Submit drum manufacturer's material specifications and drawings to illustrate drum configuration, for ENGINEER approval.

- M. Polyethylene ballast drums shall be as manufactured by *Den Hartog Industries, Inc.*, or approved equal, shall be one-piece rotational molded, with UV inhibitors, and be rectangular in shape with the dimensions and minimum wall thickness as shown on the Plans. Rectangular polyethylene float drums may be manufactured without foam and subsequently modified by the timber float Fabricator to achieve the configuration shown on the Plans. Submit drum manufacturer's material specifications and drawings to illustrate drum configuration, for ENGINEER approval. In addition, submit modified drum fabrication drawings to illustrate both original and modified drum configuration, for ENGINEER approval.
- N. Fiberglass Deck Plate shall be fiberglass reinforced plate with extra-coarse, non-slip grit surface. Acceptable product shall be "*Safeplate*" or approved equal. Color of plate shall be gray. Plate shall be purchased only after coordination with the manufacturer's representative to verify manufactured dimensional tolerances. Variance in adjacent plate thickness shall not exceed 1/16". Placement of plate and repairs of cuts or holes shall be per manufacturer's recommendations. "*Safeplate*" is produced by *Strongwell Corporation*. Installed plate that does not match the same grit surface texture as approved by the submittal process shall be removed and replaced by the Fabricator at no additional cost. Attachment of plates shall use Type 316 stainless steel fasteners.

Fiberglass Deck Plate shall be furnished only by manufacturers having a minimum of ten (10) years experience in the design and manufacture of this product. Manufacturer shall offer a 3 year limited warranty on all products against defects in materials and workmanship.

- O. All materials shall conform to good workmanship, acceptable industry standards and manufacturer's recommendations.

2.2 DELIVERY, STORAGE, AND PROTECTION

- A. All timbers shall be protected during transportation to and from treatment facilities. There shall be no mechanical damage to timbers from steel banding, handling, etc. Timbers shall be stored above ground on pallets, platforms or other supports.
- B. Polyethylene floatation tubs, ballast tanks, and coated polystyrene billets shall be protected as necessary during handling and transport to jobsite.
- C. All other float materials shall be protected during shipping and handling. Materials shall be stored above ground on pallets, platforms or other supports, and be protected from excessive exposure to moisture prior to fabrication.

PART 3 – EXECUTION

SECTION 02895 - TIMBER FLOATS

3.1 FABRICATION

- A. Quality Assurance. The float Fabricator must have an ongoing quality assurance program approved by a qualified, independent source. At the option of the ENGINEER, the Fabricator shall submit a copy of their operational quality assurance program, and shall not fabricate any floats until the ENGINEER has approved this quality assurance program. The objectives of the quality assurance program are as follows:
1. Completed products shall conform completely to all governing codes and specifications stipulated in the Design Contract Documents, and Plans.
 2. Quality Assurance Program is an integral part of the ongoing manufacturing activities of the Fabricator.

Although periodic inspections will be carried out by the ENGINEER, the purpose of these inspections is to note general conformance to the design documents. It is still the responsibility of the fabricator to produce a quality product, in complete conformance with the design documents, and to document and correct any non-conformance. All documentation, including that submitted, shall be kept on file by the Fabricator, for review, if requested by the OWNER or ENGINEER.

Fabricator shall provide, to the ENGINEER, suitable documentation showing a minimum of three (3) previously successful float fabrication projects, including current names, addresses and contact numbers of the corresponding float owners.

- B. Fabrication Facility. The fabrication facility shall provide the proper environment and physical conditions necessary for construction of high quality timber float units. The facility shall provide adequate work space, equipment, level working surfaces, and protection from direct sunlight, wind, and moisture. The Fabricator shall have the capability to carry out the following work in-house or on a contract basis:
- Design of lifting and erection devices not shown on the Drawings.
 - Preparation of Shop Fabrication Drawings.
 - Receiving, checking and storing of materials for the floats.
 - Dimensional checking and verification.
 - Resolution of non-conformities.
 - Documentation of all stages of work with capability of tracing all major components.
 - Handling, storing, shipping and delivery.
- C. The float units shall be assembled as shown on the Plans. All float units shall be clearly identified with the date of manufacture, and specific float designation per Plans. Any float materials damaged during transport and delivery and/or during handling and fabrication operations shall be repaired or replaced by the Fabricator, at the discretion of the ENGINEER, and at no additional cost to the OWNER.
- D. Walking surfaces of installed float units shall be level and flush with adjoining float units. Maximum height variation between adjoining surfaces shall be 1/8-inch.

SECTION 02895 - TIMBER FLOATS

- E. Deck of overall float unit shall be within the following level tolerances under design dead load:
 - 1. Maximum transverse freeboard differential for float units shall be one-half (0.5) inch.
 - 2. Maximum longitudinal freeboard differential for float units shall be one-half (0.5) inch.
- F. The ENGINEER will randomly cut a 2-inch-by-2-inch sample of approximately 5 to 10 percent of the coated flotation billets to check for adequate thickness of coating. If thickness is insufficient, the float Fabricator shall be prepared to apply more layers as necessary to obtain the required minimum thickness. The float Fabricator is responsible for repairing the coating after samples have been taken. Repairs shall be accomplished by reapplication of coating to the exposed area.
- G. The float Fabricator shall be required to perform quality control of the coated flotation billets, checking for adequate coating thickness and for the presence of any holes in the coating which expose the polystyrene. Application of the coating shall be accomplished with multiple layers or in such a manner as to minimize holes caused from trapped gases within the polystyrene.

3.2 TRANSPORT AND DELIVERY

- A. The CONTRACTOR shall assume full responsibility for any damages or losses resulting from the handling or transporting of float units and/or any float components during loading, shipping, transport and delivery to the fabrication and/or project site as well as the subsequent handling required on site for installation.
- B. Any float unit and/or float components damaged during transport and delivery and/or during any other handling operations prior to final acceptance shall be repaired or replaced by the CONTRACTOR at the discretion of the ENGINEER and at no additional cost to the OWNER.

3.3 INSTALLATION

- A. All new float units shall be installed as shown in the Plans and/or to the highest industry standards if not fully shown on the Plans. All float connections are designed to accommodate the required vessel loads only when installed as a complete float system, as shown on the Plans. Damage to the float connection hardware and float structure will occur if floats are installed and left in place without the proper support and support structures around them. The CONTRACTOR shall repair and/or replace, at the OWNER's preference, and at no additional cost to the OWNER, any float unit and/or float components damaged due to improper support during installation.
- B. Steel mooring/anchor piles shall be installed through assembled float unit pile hoops as specified under SECTION 02896 – Steel Pipe Piles and as shown on the Plans. Float units shall be secured in true, straight alignment prior to pile installations.

SECTION 02895 - TIMBER FLOATS

- C. Construction methods and products not specifically mentioned in these Contract Documents shall be utilized using reasonable care and the highest quality construction practices. Final inspection and acceptance of all work and products not specifically mentioned in these Contract Documents shall be made by the ENGINEER. Approval shall be based upon conformance to the Contract Documents, quality of workmanship, applicable industry standards, and pertinent manufacturer's recommendations.

END OF SECTION

SECTION 02896 - STEEL PIPE PILES

PART 1 - GENERAL

1.1 DESCRIPTION

- A. The WORK in this Section shall include all labor, materials, tools and equipment necessary to furnish and install all float mooring/anchor piles, pile splices, fiberglass caps, pile driving shoes, all miscellaneous steel plates, appurtenances and hardware, and all other related WORK in accordance with the requirements of the Contract Documents and as shown on the Plans.

1.2 REFERENCES

- A. ASTM A252 - Welded and Seamless Steel Pipe Piles
- B. ASTM A139 – Electric-Fusion (Arc)-Welded Steel Pipe
- C. AWS D1.1 - Structural Welding Code - Steel

1.3 SUBMITTALS

- A. Manufacturer's Mill Certificate: Steel Certification including chemistry, yield strength, and mill numbers.
- B. Shop Drawings for all fabricated items per Section 05120 – Metal Fabrication.
- D. Welding Procedures and Welder Certification per Section 05120 – Metal Fabrication.
- E. Pile Splices: Preapproved pile splices for ASTM A252, Grade 3 material shall meet AWS D1.1 requirements and shall be submitted for ENGINEER review.
- F. Pile Installation Plan: Provide narrative and illustrations as necessary to fully describe complete pile installation plan. The plan shall address, as a minimum, all equipment, labor, temporary pile support and template systems, methods/means to align and maintain pile alignment, survey control, work sequence, and method of installation. The plan shall include pile hammer types and sizes, as well as manufacturers' recommendations and information on hammer cushion, and a written description of means and methods for all pile installation work. The CONTRACTOR shall not mobilize hammers, drill equipment, or any other pile installation related equipment prior to receiving written approval, from the ENGINEER, for the pile installation plan. The CONTRACTOR should allow one week for review of the plans by the ENGINEER. All pile driving means and methods shall meet the requirements of the permits issued for this project.
- G. Manufacturer's information on all pile hammers intended for use, complete with satisfactory data to ensure properly suited for installation of pipe piles.
- H. Galvanizing certificates verifying that coated material conforms to Specifications.
- I. Fiberglass Pile Caps: Submit manufacturer's product data sheet along with proposed attachment method.

SECTION 02896 - STEEL PIPE PILES

- J. Pile Driving Shoes: Submit manufacturer's published literature for specific product, including specifications, and installation requirements for driving shoe pile tips as shown on the Plans.

PART 2 - PRODUCTS

2.1 GENERAL

- A. All materials shall conform to the Contract Documents and as shown on the Plans. Purchase orders shall contain all necessary information to ensure that materials purchased will comply with the Contract Documents. The fabricator shall inspect all materials, upon arrival, for conformance with the purchase orders, and the fabricator shall confirm that mill certificates and test reports are provided and that they correctly identify the materials delivered. If a supplier proposes a substitute for any material, the proposed substitution shall be submitted to the ENGINEER for approval prior to commencing any work involving use of the proposed substitute material. Supplier must be prepared to supply materials as identified in the Contract Documents if the proposal for a substitution is not approved by the ENGINEER.
- B. All materials incorporated into this project shall be new, unless otherwise noted on the Plans. Material not specifically noted in the Contract Documents or on the Plans shall be submitted by the CONTRACTOR for approval by the ENGINEER. Approval will be based on conformance to current standards utilized by the OWNER.
- C. All materials shall conform to good workmanship, acceptable industry standards and manufacturer's recommendations.

2.2 PILES

- A. All float mooring/anchor piles shall be straight seam ERW pipe resulting in a smooth exterior pile wall and conforming to ASTM A252, Grade 3. Carbon Equivalency shall not exceed 0.45.
- B. All steel pipe piles shall be hot-dip galvanized, full length, in accordance with ASTM A123, unless otherwise noted on the Plans.
- C. All steel pipe piles shall be furnished, complete with pile tips, in the lengths indicated on the Plans. Piles shall be delivered full length or field spliced in accordance with approved welding and galvanizing repair procedures. No additional compensation shall be made for splicing piles to make up the pile lengths shown on the Plans.
- D. Miscellaneous steel plates, shapes and fabricated metal weldments shall be ASTM A36, hot-dip galvanized per ASTM A123 or A153, and comply with Section 05120 – Metal Fabrication.

SECTION 02896 - STEEL PIPE PILES

2.3 MISCELLANEOUS

- A. Fiberglass pile caps shall be as manufactured by *Cheyenne Manufacturing Inc.* or approved equal. Color shall be white. Attachments shall be per manufacture's recommendations to resist 100 mph wind speed.

PART 3 - EXECUTION

3.1 PREPARATION AND PROTECTION OF COATINGS

- A. The CONTRACTOR is responsible to become familiar with the site conditions and any available geotechnical information, prior to bid, so as to make their own assessment of pile installation means and methods. It is recommended that the CONTRACTOR visit the site, prior to bid, to assess the site conditions, particularly during a minus tide.
- B. Galvanized coatings damaged due to fabrication, welding, material handling or occurring during installation shall be repaired per Section 05120 – Metal Fabrication.

3.3 INSTALLATION

- A. The CONTRACTOR shall submit a detailed work plan including technical narrative and illustrations, as necessary. The CONTRACTOR shall not mobilize hammers and related equipment prior to receiving written approval of the plan. The CONTRACTOR should allow one week for review of the plan by the ENGINEER. All driving methods shall meet the requirements of the PERMITS issued for this project.
- B. Piles shall be driven to the minimum required pile capacities and/or minimum embedment as indicated on the Plans. Acceptance of a driven pile and determination of pile refusal shall be made solely by the ENGINEER.
- A. Impact hammers shall be selected by the CONTRACTOR, subject to review by the ENGINEER, prior to mobilizing to the project site. The impact hammer shall be single-acting, and adequately sized to achieve the ultimate bearing capacities identified on the Plans. Pile ultimate bearing capacities shall be determined by the following equation:

$$P_{ult} = \left[\frac{12 * E}{S + 0.1} \right] \left[\frac{R}{R+C+P} \right]$$

P_{ult} = Ultimate Capacity (lbs)

E = Hammer Energy (ft-lbs)

S = Set (inches per blow)

R = Weight of Ram (lbs)

C = Weight of Cap Block (lbs)

P = Weight of Pile (lbs)

Any hammer that causes damage to the piles during driving operations shall be substituted with an acceptable alternative hammer at no additional expense to the OWNER. Impact hammer shall be supplied with new cap block cushions, which shall be changed at the manufacturer's recommended interval. The CONTRACTOR's submitted

SECTION 02896 - STEEL PIPE PILES

driving plan shall include manufacturer's recommendations and information on hammer cushion.

- B. Obstructions may be encountered below mudline during pile driving. Any obstructions encountered within five feet of the existing mudline shall be removed at no additional cost to the OWNER. Obstructions extending below five feet from mudline elevation that require removal shall be removed in accordance with General Conditions, Article 10 – Changes In The Work.. The CONTRACTOR shall be prepared to immediately remove obstructions in the event they are encountered, or shall alternatively move to other contract Work to prevent delays.
- C. All float mooring piles shall be installed at planned locations, through the pile hoops to assure that the floats move freely along the piles throughout all tide levels. Any pile installed in a manner that causes binding between the pile and pile hoop shall be extracted and re-driven at no additional cost to the OWNER. Forcing of piles to achieve required alignment will not be allowed. Minimum pile lengths and embedment requirements shall be as specified on the Plans. If a vibratory hammer is utilized for driving and refusal occurs prior to complete embedment being achieved, the CONTRACTOR shall drive the remaining pile to the desired embedment with a suitable sized impact hammer.
- D. All float mooring piles shall be installed within 0.5% of specified vertical alignment. Misaligned or mislocated piles shall be extracted by the CONTRACTOR and shall be reinstalled at no additional cost to the OWNER. The CONTRACTOR shall have suitable equipment on site to extract piles that do not meet the location tolerances specified.
- E. All pile installations shall be conducted with the ENGINEER present. The CONTRACTOR shall assist the ENGINEER in monitoring the pile driving. Unless otherwise directed by the ENGINEER, the CONTRACTOR shall mark each pile with one-foot increments, with every five-foot increment numbered. The marks shall be visible and readable from all sides of the pile above local extreme low tide level. CONTRACTOR shall provide notification to ENGINEER a minimum of 24 hours prior to any pile installation.
- F. The CONTRACTOR shall furnish and install new fiberglass caps in accordance with the manufacturer's recommendations for each float mooring pile as indicated on the Plans.
- G. All steel pipe pile cutoffs shall become the property of the CONTRACTOR and shall be removed in their entirety from the project site.
- H. Construction methods and products not specified in these Contract Documents shall be utilized using reasonable care and the highest quality industry standard construction practices. Final inspection and acceptance of all Work and products not specified in these Contract Documents shall be made by the ENGINEER. Approval shall be based upon conformance to the Contract Documents, quality of workmanship, applicable industry standards, and pertinent manufacturer's recommendations.

END OF SECTION

SECTION 02898 – FLOAT TRANSITION PLATE

PART 1 - GENERAL

1.1 DESCRIPTION

- A. The WORK in this Section shall include all labor, materials, tools and equipment necessary for the repair and installation of the complete aluminum transition plate assembly and all other miscellaneous appurtenances and hardware in accordance with the requirements of the Contract Documents and as indicated on the Plans.

1.2 REFERENCES

- A. ASTM (American Society of Testing Materials) Specifications

1.3 SUBMITTALS

- A. UHMW (Ultra High Molecular Weight) Polyethylene - Submit material specifications and Fabrication Shop Drawings for each type of fabricated UHMW piece.

PART 2 - PRODUCTS

- 2.1 MATERIALS - All materials shall conform to the Contract Documents and Plans. Purchase orders shall contain all necessary information to verify that materials purchased comply with the fore mentioned documents. The Fabricator shall inspect all materials, upon arrival, for conformance with the purchase orders. The Fabricator shall confirm that mill certificates and test reports are provided, and that they correctly identify the materials delivered. If a supplier proposes a substitute for any material, the proposed substitution shall be submitted to the ENGINEER for approval prior to commencing any WORK involving use of the proposed substitute material. Supplier must be prepared to supply materials as identified on the design documents if the proposal for a substitution is not approved by the ENGINEER.

- A. All bolts and miscellaneous hardware shall comply with Section 05120 – Metal Fabrication
- B. All Ultra High Molecular Weight (UHMW) Polyethylene components shall be manufactured from virgin polyethylene material, be U.V. stabilized and shall be partially cross-linked. UHMW components shall be black in color, unless otherwise noted. Transition plate nosings shall be yellow in color.
- C. All materials shall conform to good workmanship, acceptable industry standards and manufacturer's recommendations.

PART 3 – EXECUTION

3.1 INSTALLATION

- A. The complete transition plate assembly shall be installed as indicated on the Plans and/or to the highest industry standards if not fully shown on the Plans.

SECTION 02898 – FLOAT TRANSITION PLATE

- B. Verify final location with ENGINEER before final anchoring to float.
- C. Construction methods and products not specifically mentioned in these Contract Documents shall be utilized using reasonable care and the highest quality construction practices. Final inspection and acceptance of all WORK and products not specifically mentioned in these Contract Documents shall be made by the ENGINEER. Approval shall be based upon conformance to the Contract Documents, quality of workmanship, applicable industry standards, and pertinent manufacturer's recommendations.

END OF SECTION

SECTION 05120 – METAL FABRICATION

PART 1 - GENERAL

1.1 DESCRIPTION

- A. The WORK in this Section shall include all labor, materials, tools and equipment necessary for fabrication, handling, transport and installation of all structural steel and aluminum items in accordance with the requirements of the Contract Documents and as shown on the Plans.

1.2 REFERENCES

- A. AISC (American Institute of Steel Construction) Code of Standard Practice - Manual of Steel Construction - Allowable Stress Design (ASD).
- B. ASTM (American Society of Testing Materials) Specifications
- C. ASTM A36/A36M - Structural Steel.
- D. ASTM A6 – General Requirements for Rolled Steel Plates, Shapes, Sheet piling, and Bars for Structural Use.
- E. ASTM A108 – Steel Bars, Carbon Cold-Finished, Standard Quality.
- F. ASTM A123 - Zinc (Hot Dipped Galvanized) Coatings on Iron and Steel Products.
- G. ASTM A153 - Zinc Coating (Hot Dip) on Iron and Steel Hardware.
- H. ASTM A325 - High Strength Bolts for Structural Steel Joints.
- I. ASTM A500 - Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Round and Shapes.
- J. ASTM A53 – Steel Pipe.
- K. ASTM F593 – Stainless Steel Bolts, Hex Cap Screws, and Studs.
- L. ASTM F594 – Stainless Steel Nuts.
- M. AWS D1.1 - Structural Welding Code - Steel.
- N. The Aluminum Association – Aluminum Design Manual: Specifications and Guidelines for Aluminum Structures.
- O. ASTM B209 – Standard Specifications for Aluminum and Aluminum-Alloy Sheet and Plate.
- P. ASTM B210 – Standard Specifications for Aluminum and Aluminum-Alloy Drawn Seamless Tube.
- Q. ASTM B221 – Standard Specifications for Aluminum and Aluminum-Alloy Bar, Rod, Wire, Profiles and Tubes.

SECTION 05120 – METAL FABRICATION

- R. ASTM B241 – Standard Specifications for Aluminum and Aluminum-Alloy Seamless Pipe and Seamless Tube.
- S. ASTM B308 – Standard Specifications for Aluminum and Aluminum-Alloy 6061-T6 Standard Structural Profiles.
- T. AWS D1.2 - Structural Welding Code - Aluminum.

1.3 SUBMITTALS

- A. Fabrication Shop Drawings of all fabricated steel and aluminum items prior to fabrication.
 - 1. Indicate welds by standard AWS symbols, distinguishing between shop and field welds, and show size, length and type of each weld.
 - 2. Include details of cuts, connections, splices, camber, holes, and other pertinent data.
 - 3. Indicate type, size and length of bolts, distinguishing between shop and field bolts. Identify high-strength bolted slip-critical, direct-tension, or tensioned shear/bearing connections.
- B. Manufacturer's Mill Certificate: Steel certification for all steel used shall include chemistry, yield strength, and mill numbers.
- C. Galvanizing Certifications
- D. Galvanizing Repair Method and Materials
- E. Welding Procedures
- F. Welders Certificates: Certify welders employed in the work, verifying AWS qualification.
- G. Product data, samples, preparation, application, QA/QC Plan, and field repair of metal coatings per Section 09000 – Coatings.
- H. Provide fabrication shop QA/QC Plan for review by ENGINEER. Provide qualification data for firms and/or persons to demonstrate their capabilities and experience. Include lists of projects with project names and addresses, and names and addresses of engineers, architects and owners.

1.4 QUALITY ASSURANCE

- A. Fabricate and install structural steel in accordance with AISC Code of Standard Practice.
- B. Fabricate and install aluminum in accordance with Aluminum Association Aluminum Design Manual.
- C. Quality Assurance. The metal fabricator must have an ongoing quality assurance program approved by a qualified, independent source. At the option of the ENGINEER, the fabricator shall submit a copy of their operational quality assurance program, and

SECTION 05120 – METAL FABRICATION

shall not begin fabrication until the ENGINEER has approved this quality assurance program. The objectives of the quality assurance program are as follows:

1. Completed products shall conform completely to all governing codes and specifications stipulated in the Design Contract Documents, and Plans.
2. Quality Assurance Program is an integral part of the ongoing manufacturing activities of the Fabricator.

Although periodic inspections will be carried out by the ENGINEER, the purpose of these inspections is to note general conformance to the design documents. It is still the responsibility of the fabricator to produce a quality product, in complete conformance with the design documents, and to document and correct any non-conformance. All documentation, including that submitted, shall be kept on file by the fabricator, for review, if requested by the OWNER or ENGINEER.

- D. Fabrication Facility. The fabrication facility shall provide the proper environment and physical conditions necessary for welding, cutting, and general metal fabrication. The facility shall provide adequate work space, equipment, level surfaces, and protection from wind, moisture and freezing. The fabricator shall have the capability to carry out the following work in-house or on a contract basis:
- Design of lifting and erection devices not shown on the drawings.
 - Preparation of shop fabrication drawings.
 - Receiving, checking and storing of materials for metal fabrication.
 - Dimensional checking and verification.
 - Resolution of non-conformities.
 - Documentation of all stages of work with capability of tracing all major components.
 - Finishing, repairing, storing and shipping.
- E. Fabricator Qualifications: Engage a firm experienced in fabricating structural steel similar to that indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to fabricate structural steel without delaying the WORK. Shop welding procedures and qualifications shall be submitted for review by the ENGINEER.
- F. Welding Standards: Comply with applicable provisions of AWS D1.1 Structural Welding Code - Steel, current edition, and AWS D1.2 Structural Welding Code – Aluminum, current edition.
1. Present evidence that each welder has satisfactorily passed AWS qualification tests for welding processes involved and, if pertinent, has undergone recertification.
 2. Submit welding procedures in accordance with AWS Structural Welding Codes.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials to Fabricator's shop in such quantities and at such times to ensure continuity of installation.
- B. Store materials to permit easy access for inspection and identification. Materials shall be protected during shipping and handling. Materials shall be stored above ground on

SECTION 05120 – METAL FABRICATION

pallets, platforms or other supports. Materials shall be kept clean and properly drained. Girders and beams shall be placed upright and shored. Long members shall be adequately supported on skids to prevent damage from deflection.

- C. Store fasteners in a protected place. Clean and re-lubricate bolts and nuts that become dry or rusty before use.
- D. Do not store materials or assembled structures in a manner that might cause distortion or damage to members or supporting structures. Repair or replace damaged materials or structures as directed.

PART 2 - PRODUCTS

2.1 MATERIALS - All materials for metal fabrication shall conform to the Contract Documents and as shown on the Plans. Purchase orders shall contain all necessary information to verify that materials purchased comply with the fore mentioned documents. The Fabricator shall inspect all materials, upon arrival, for conformance with the purchase orders. The Fabricator shall confirm that mill certificates and test reports are provided and that they correctly identify the materials delivered. If a supplier proposes a substitute for any material, the proposed substitution shall be submitted to the ENGINEER for approval prior to commencing any WORK involving use of the proposed substitute material. Supplier must be prepared to supply materials as identified on the design documents if the proposal for a substitution is not approved by the ENGINEER.

- A. All miscellaneous steel shapes and plate steel shall be ASTM A36, hot-dip galvanized, unless otherwise noted.
- B. Square and rectangular HSS shall be ASTM A500, Grade B, hot-dip galvanized, unless otherwise noted.
- C. Pipe less than 12-inch diameter shall be ASTM A53, Grade B, Type E or S, hot-dip galvanized, unless otherwise noted. Pipe greater than 12-inch diameter shall conform to Section 02896 - Steel Pipe Piles.
- D. Bolts and Miscellaneous Hardware: Unless otherwise noted, all bolts shall be ASTM A307, hot-dip galvanized. Washers are required under both the head and nut of all bolts, unless otherwise noted. All nuts and washers shall be hot-dip galvanized. Plate washers, with a diameter equivalent to a malleable iron washer, shall be used in all areas where the bolt head or nut bear against wood, except under economy head bolts. All bolts called out as ASTM A325 shall be hot-dip galvanized. A325 bolts shall be installed per AISC turn-of-nut method, or other ENGINEER approved method, unless otherwise indicated on the Plans.

All bolts, nuts, washers, screws, and miscellaneous hardware called out as Stainless Steel shall be Type 316 Stainless Steel conforming to ASTM F593 and F594 as applicable.

All nails shall be hot-dip galvanized.

- E. Aluminum shall conform to 6061-T6, unless otherwise noted. Aluminum pipe and round bar shall be 6063-T6.

SECTION 05120 – METAL FABRICATION

2.2 METAL COATINGS

- A. Unless otherwise noted, all steel shall be hot-dip galvanized in accordance with ASTM A123 or A153 as appropriate.
- B. All other metal coatings shall be per Section 09900 – Coatings.

PART 3 - EXECUTION

3.1 METAL FABRICATION

- A. Shop Inspection: The CONTRACTOR shall furnish the ENGINEER with 30 days notice of the beginning of WORK at the mill or in the shop so that special fabrication inspections may be scheduled by the ENGINEER.
- B. Fabricate and assemble components in a shop, to greatest extent possible. Workmanship and finish shall be equal to the best industry standards and in accordance with the requirements of AWS, AISC, and The Aluminum Association, as applicable.
 - 1. Mark and match-mark materials for field assembly.
 - 2. Fabricate for delivery in a sequence that will expedite erection and minimize field handling.
 - 3. Thermal Cutting: Perform thermal cutting by machine to greatest extent possible.
 - 4. Holes: Drill holes perpendicular to metal surfaces; do not flame-cut holes or enlarge holes by burning.
 - 5. Aluminum Fabrication: Edges shall be cut true, smooth and free of burrs. Flame cutting is not permitted. Corner edges shall be ground smooth. Holes shall be drilled or punched. Weld spatter and flash marks shall be removed and ground smooth. Mill stamps and markings shall be removed from all exposed surfaces.
- C. Structural material, either plain or fabricated, shall be stored at the fabricating shop above ground, on platforms, skids or other supports. It shall be kept free from dirt, grease or other foreign matter, and shall be protected, as far as practical, from corrosion.
- D. All holes required for steel hot-dip galvanizing shall be clearly identified on the Shop Fabrication Drawings for ENGINEER review and approval. Fabricator shall coordinate with Galvanizer to determine size and quantity of holes required. Some, or all of the holes, may be required to be fully repaired per AWS D 1.1, at the discretion of the ENGINEER.

3.2 METAL ERECTION

- A. General: The CONTRACTOR shall provide and later remove all falsework, temporary shoring, and bracing necessary for erection and to complete assembly. All such devices shall be properly designed and constructed by the CONTRACTOR to meet anticipated construction and handling loads.

SECTION 05120 – METAL FABRICATION

- B. Handling and Storing of Materials: Material to be stored shall be placed on skids above the ground. It shall be kept clean and properly drained. Girders and beams shall be placed upright and shored. Handling and erection procedures shall be conducted in a manner to avoid over stressing any structural element. Stress and deflection calculations shall be provided by the CONTRACTOR, as deemed necessary by the ENGINEER, for any erection procedure.
- C. Method and Equipment: Before starting the WORK of erection, the CONTRACTOR shall inform the ENGINEER fully as to the method of erection proposed, and the amount and character of equipment proposed to be used. Approval by the ENGINEER shall not be considered as relieving the CONTRACTOR of the responsibility for the safety of his method and equipment, or from carrying out the WORK in full accordance with the Plans and Specifications.
- D. Assembling: Metal parts shall be accurately assembled as shown on the Plans, following applicable Industry Standards, Codes, erection drawings and fabricators' match-marks. Excessive force or manipulation of parts shall not be allowed as determined by the ENGINEER. The material shall be carefully handled so that no parts will be bent, broken, or otherwise damaged. Hammering, which will injure or distort the members will not be permitted. Bearing surfaces shall be cleaned before the members are assembled.
- E. Bolt Holes and Bolting: Bolt holes and bolting shall follow the requirements as stated on the Plans and as indicated by applicable Industry Standards and Codes. Any steel to steel connections noted to be considered "slip-critical" shall be installed by the "turn-of-nut" tightening method per AISC. In addition to the requirements of AISC, bolting of slip-critical joints shall proceed in the following manner:
1. The joint shall be fitted up and aligned with drift pins.
 2. Sufficient force shall be applied so as to bring the faying surfaces of steel into close contact. If high strength bolts are used for this purpose (i.e. used to pull steel into position), they shall be clearly marked for identification, and not used in the final connection.
 3. High strength bolts shall be installed and brought up to snug-tight condition, such as can be produced by a few blows of an impact wrench, or by an ordinary spud wrench.
 4. High strength bolts shall then be tightened by turn-of-nut method, progressing from the most rigid part of the joint toward the free edges.
 5. Bolts used to pull steel into position (mentioned above) shall then be removed, replaced with high strength bolts, and tightened as described above.
 6. The impact wrench used for bolt tightening shall be of adequate capacity so as to provide the required tightening in approximately 10 seconds.
 7. Bolt lengths shall be such that 0" to ¼" of the bolt shall extend past the end of the nut after tightening.
- F. Welding: All welding shall be in accordance with AWS D1.1 or AWS D1.2, current edition, as applicable. All welders shall be qualified per AWS for the type of welding anticipated. Welds will be spot tested by the ENGINEER by VT, MT, or UT and any

SECTION 05120 – METAL FABRICATION

welds which fail shall be repaired at the CONTRACTOR's expense, which will also include all costs for retesting. No welding through galvanized coatings will be permitted. The galvanizing within one inch of the weld shall be removed and repaired, after welding, according to these Specifications. All weld filler metal shall have chemistry similar to the base metal and shall have a minimum Charpy Impact Test Value of 20 ft-lbs. at -20 degrees F and have chemistry similar to the base metal. Filler metals shall only be used in welding positions recommended by the manufacturer. Welding materials shall be stored, and the condition maintained, according to AWS.

- G. Galvanize Repair: Galvanized coatings damaged due to fabrication, welding, material handling or occurring during installation shall be repaired per Section 09900 – Coatings, Sub-Section 3.2.
- H. Thermal Spray Metalizing (TSM) Repair: TSM coatings damaged due to fabrication, welding, material handling or occurring during installation shall be repaired per Section 09900 – Coatings, Sub-Section 3.2.

END OF SECTION

SECTION 09900 - COATINGS

PART 1 - GENERAL

1.1 DESCRIPTION

- A. The WORK in this section shall include all labor, materials, tools and equipment necessary for handling, transport, surface preparation and application of all metal coatings, and all other miscellaneous associated work, in accordance with the requirements of the Contract Documents and as shown on the Plans.

1.2 REFERENCES

- A. ASTM (American Society of Testing Materials) Specifications
- B. ASTM A123 - Zinc (Hot Dipped Galvanized) Coatings on Iron and Steel Products.
- C. ASTM A153 - Zinc Coating (Hot Dip) on Iron and Steel Hardware.
- D. SSPC (Steel Structures Painting Council) - Steel Structures Painting Manual.
- E. SSPC Guide No. 23 for Thermal Spray Metallic Coating.

1.3 SUBMITTALS

- A. Product Data: Provide product data and/or technical specifications including manufacturer's instructions for surface preparation, required environmental conditions, etc., for all metal coating products.
- B. Samples: Submit (2) samples demonstrating color and texture for each proposed metal coating product.
- C. Coating Repair Methods and Materials: CONTRACTOR'S proposed repair methods, procedures and materials for all metal coatings damaged as a result of shipping, handling, welding or by other means.
- D. CONTRACTOR shall submit a Quality Plan for preparation and application of all metal coatings. Quality Plan shall address solvent cleaning, blasting, surface profile standards, stripe coat and primer coat application, finish coat applications, coating thickness measurement and documentation, adhesion pull test procedures, independent inspection and documentation, as well as handling and transport methods.

1.4 QUALIFICATIONS

- A. Thermal sprayed and painted coatings shall be applied by an experienced firm that has knowledge, procedures and equipment necessary to provide surface preparation and application of complex protective coating systems. Thermal sprayed and painted coatings shall be applied by a firm possessing AISC certification for Shop Application of Complex Protective Coating Systems (SPE) P1 and/or SSPC-QP 3.

SECTION 09900 - COATINGS

PART 2 - PRODUCTS

2.1 GALVANIZING

- A. Hot-dipped galvanizing shall be per ASTM A123 or A153, as appropriate.

2.2 THERMAL SPRAY METALLIC COATING

- A. Shall conform to SSPC Guide No. 23.
- B. Thermal Spray Metallic Coating shall be 85% zinc/15% aluminum applied to a minimum dry coating thickness of 15 mils, and shall be top coated with clear sealer PRO-LINE 4800/4801 PROTHANE H.S. as manufactured by *Sherwin-Williams*, or approved equal, to a dry film thickness (DFT) of 2-3 mils.

2.3 NON-SKID COATING

- A. Metal surfaces designated to have Non-Skid coating shall be initially thermal arc-sprayed with zinc only to a minimum dry coating thickness of 6 mils, followed by a thermal arc-sprayed top coat of TH 605, as manufactured by *Thermion*, or an approved equivalent product, to achieve an aggressive surface profile. Approved Non-skid coating shall be applied to a minimum dry coating thickness of 12 mils, and shall be top coated with clear sealer PRO-LINE 4800/4801 PROTHANE H.S. as manufactured by *Sherwin-Williams*, or approved equal, to a dry film thickness (DFT) of 2-3 mils. Surface prep and Non-Skid coating application shall be conducted as recommended by *Thermion*, or other approved manufacturer. Fabricator shall coordinate with manufacturer prior to Non-Skid coating application, and submit surface prep and application procedures for ENGINEER approval. Samples of Non-Skid coating must be submitted to ENGINEER and approved by the ENGINEER prior to commencing with Non-Skid coating application.

PART 3 - EXECUTION

3.1 PREPARATION AND APPLICATION

- A. Galvanizing shall be performed after fabrication, and all holes required for galvanizing shall be repaired per AWS D1.1, and in accordance with Sub-Section 3.2, unless otherwise approved by the ENGINEER.
- B. Preparation and application of Thermal Spray Metallic Coatings shall conform to SSPC Guide No. 23, to the minimum dry film coating thickness specified in these specifications. Thermal Spray Metallic Coating damaged from shipping, handling, welding or by other means shall be repaired in accordance with SSPC Guide No. 23, Section 8.7.
- C. Metal surfaces specified to be Non-Skid shall be prepared per coating manufacturer's recommendations and submitted Quality Plan.
- D. Surface preparation will be monitored and dry film thickness testing will be performed by OWNER representative to ensure adequate coating application. If coating thickness is insufficient, the Fabricator is responsible for and shall be prepared to apply more layers as

SECTION 09900 - COATINGS

necessary to obtain the required minimum thickness specified in the Contract Documents.

3.2 COATING REPAIRS

- A. CONTRACTOR shall submit metal coating repair methods and procedures for review and approval by the ENGINEER, prior to fabrication or mobilization of any equipment and materials.
- B. Galvanize Repair: Galvanized coatings damaged due to fabrication, welding, material handling or occurring during installation shall be repaired by using the following hot-applied repair stick method:
1. Repair sticks shall be zinc-cadmium alloys (melting point 518° - 527°F) such as “Rev-Galv”, or zinc-tin-lead alloys (melting point 446° - 600°F) such as “Galv-Weld”, “Zilt”, and “Galv-over”. The zinc-tin -lead alloys shall comply with U.S. Federal Specification O-G-93 and contain fluxing agents.
 2. Remove welding slag by chipping hammer and clean weld or damaged area by vigorous wire brushing.
 3. Preheat the region to be repaired by means of an oxyacetylene torch or other convenient method to between 600°F and 750°F. The alloys do not spread well at temperatures lower than 600°F. Also as temperatures rise above 600°F increasing amounts of dross form.
 4. Wire brush surface again.
 5. Apply coating by rubbing bar of the alloy over the heated surface while it is hot enough to melt the alloy.
 6. Spread the molten alloy by briskly wire brushing or rubbing with a flat edge strip of steel or palette knife. Minimum thickness of applied zinc stick material shall be 12 mils.
 7. Remove flux residues by wiping with a damp cloth or rinsing with water.
 8. Brush apply two top coats of zinc rich paint, ZRC or equal (cold galvanize repair).
- C. Thermal Spray Metalizing (TSM) Repair: Thermal Spray Metallic Coating damaged due to fabrication, welding, material handling or occurring during installation shall be repaired in accordance with SSPC Guide No. 23, Section 8.7.

END OF SECTION

**PETERSBURG BOROUGH
SOUTH HARBOR LAUNCH RAMP
FISH CLEANING FLOAT**

XII CONSTRUCTION PERMITS AND EASEMENTS

**U.S. Army Corps of Engineers, Alaska District
PRECONSTRUCTION NOTIFICATION FORM**

May be used instead of Form ENG 4345 to request verification under a Nationwide Permit (NWP)

Applicant: Petersburg Borough	Phone: 907-772-4519 Ext 22
Address: PO Box 329	Fax: 907-772-3759
City, State, Zip: Petersburg, Alaska 99833	Cell/Direct Line:
Point of Contact: Steven Giesbrecht	e-mail: sgiesbrecht@petersburgak.gov

Agent: PND Engineers, Inc.	Phone: 907-586-2093
Address: 9360 Glacier Highway, Suite 100	Fax: 907-586-2099
City, State, Zip: Juneau, Alaska 99801	Cell/Direct Line:
Point of Contact: Kate Mickelson	e-mail: kmickelson@pndengineers.com

Location of the Proposed Project Site:

Nearest Waterway: Wrangell Narrows	
Section, Township, Range, and Meridian: Section 27, Township 58 South, Range 79 East of the Copper River Meridian	
Latitude and Longitude (Decimal Degrees, NAD-83): 56.8089 N, 132.966981 W	
Nearest City: Petersburg, Alaska	Subdivision: N/A
Borough: Petersburg Borough	USGS Quad(s): Petersburg D-3 SW
Driving Directions to Site: Petersburg's South Harbor is located in downtown Petersburg and is the southernmost of the community's three main boat harbors and is accessible via Harbor Way.	

Project Description:

To ensure your project meets the requirements for a NWP, read all of the NWP General Conditions and Regional Conditions, which can be found on our website at http://www.poa.usace.army.mil/reg/Permits.htm#Nationwide Permits	
Description of the proposed project, including the area of impacts and the volume of fill material to be used (If there is a NWP that you think would apply to your proposed project, please include that in this section): The Petersburg Borough proposes to remove the existing 20'x20' fish cleaning float and replace it with a 20'x40' fish cleaning float to allow for increased maneuverability and access for users. The project will reuse the two existing 12" diameter galvanized steel pipe piles. Two new 12" diameter galvanized steel pipe piles will be driven on the north side of the float. Please see attached drawings.	
Project purpose:	To replace an existing fish cleaning float, improve accessibility and public safety.
Describe any direct and/or indirect adverse environmental effects that may result from the proposed project: None anticipated.	

Do you intend to use any other authorizations for any part of the proposed project or any related activity, for example, a NWP, General Permit (GP), or Individual Permit (IP)?

YES or NO

If YES, specify what permit type (NWP, GP, IP) and for what aspect of the project:

NWP 3 - Maintenance

Will your proposed project result in the loss of greater than 1/10 of an acre of wetlands?

YES or NO

If YES, describe how you will satisfy the mitigation requirement in Nationwide Permit General Condition 23 (attached). If additional space is needed, please attach sheets.

Are there any listed species or designated critical habitat that might be affected or is in the vicinity of the project, or is the project located in designated critical habitat? Federal agencies must provide the appropriate documentation to demonstrate compliance with the agency's procedures for compliance with the ESA. Information on the location of threatened or endangered species and their critical habitat can be obtained directly from the offices of the U.S. Fish and Wildlife Service and the National Marine Fisheries Service.

YES or NO

If YES, list all species:

Are there historic properties (listed on, determined to be eligible for listing on, or potentially eligible for listing on the National Register of Historic Places, including previously unidentified properties) that the proposed activity may have the potential to effect? Federal agencies must provide documentation demonstrating compliance with the Section 106 of the National Historic Preservation Act. Assistance regarding information on the location of or potential for the presence of historic resources can be sought from the State Historic Preservation Officer.

YES or NO

If YES, state which property or properties may be affected and/or attach a vicinity map indicating the location of the historic property or properties.

Will the proposed work involve ground disturbing activities?

YES or NO

Pile Driving Only.

If YES, attach a short narrative describing the topsoil or organic materials (including seed) that you intend to use for rehabilitation. If you intend to use other locally-obtained native materials, identify the source.

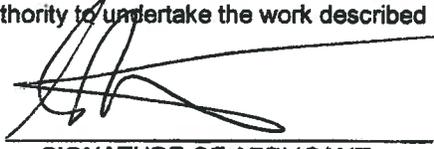
Attach the following in addition to the above applicable items:

- Drawings of the site and project plans (For more information on acceptable drawings and plans, please visit our website at <http://www.poa.usace.army.mil/reg/permitapp.htm> and click on "Guide to Drawings")
- The PCN must include a delineation of wetlands, other special aquatic sites (riffle and pool complexes, sanctuaries and refuges, mudflats, vegetated shallows, and/or coral reefs), and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site. Wetland delineations must be prepared in accordance with the current method required by the Corps. The applicant may request the Corps to delineate the special aquatic sites and other waters and if the PCN does not include a delineation we will take that to mean you are requesting the Corps for one. In these cases, the PCN will not be considered complete until we complete the delineation.

Note: If you request a Corps delineation, you may be delayed in receiving authorization for your proposed project.

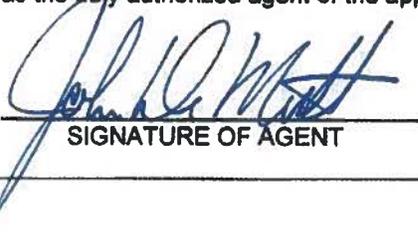
Application is hereby made for a permit or permits to authorize the work described in this preconstruction notification form.

I certify the information in this preconstruction notification form is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.



SIGNATURE OF APPLICANT

3/17/2014
DATE



SIGNATURE OF AGENT

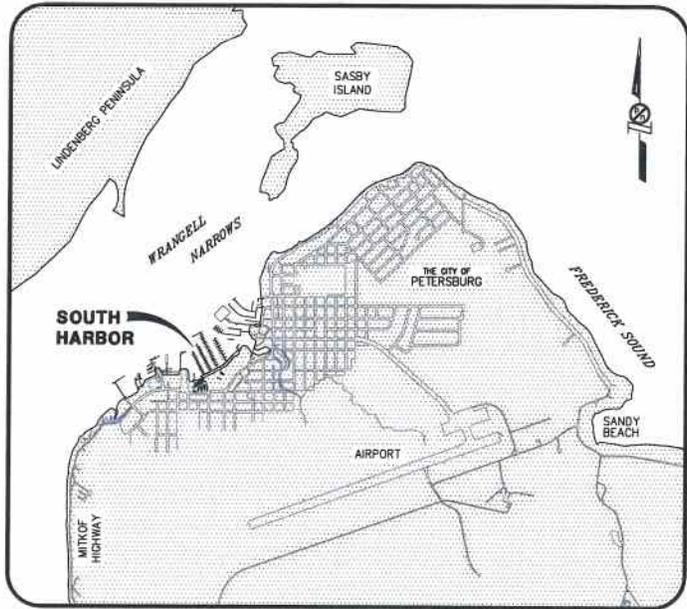
3/14/14
DATE



LOCATION MAP



SOUTHEAST ALASKA



VICINITY MAP

PURPOSE:
 TO REPLACE AN EXISTING
 FISH CLEANING FLOAT
 IMPROVE ACCESSIBILITY &
 PUBLIC SAFETY

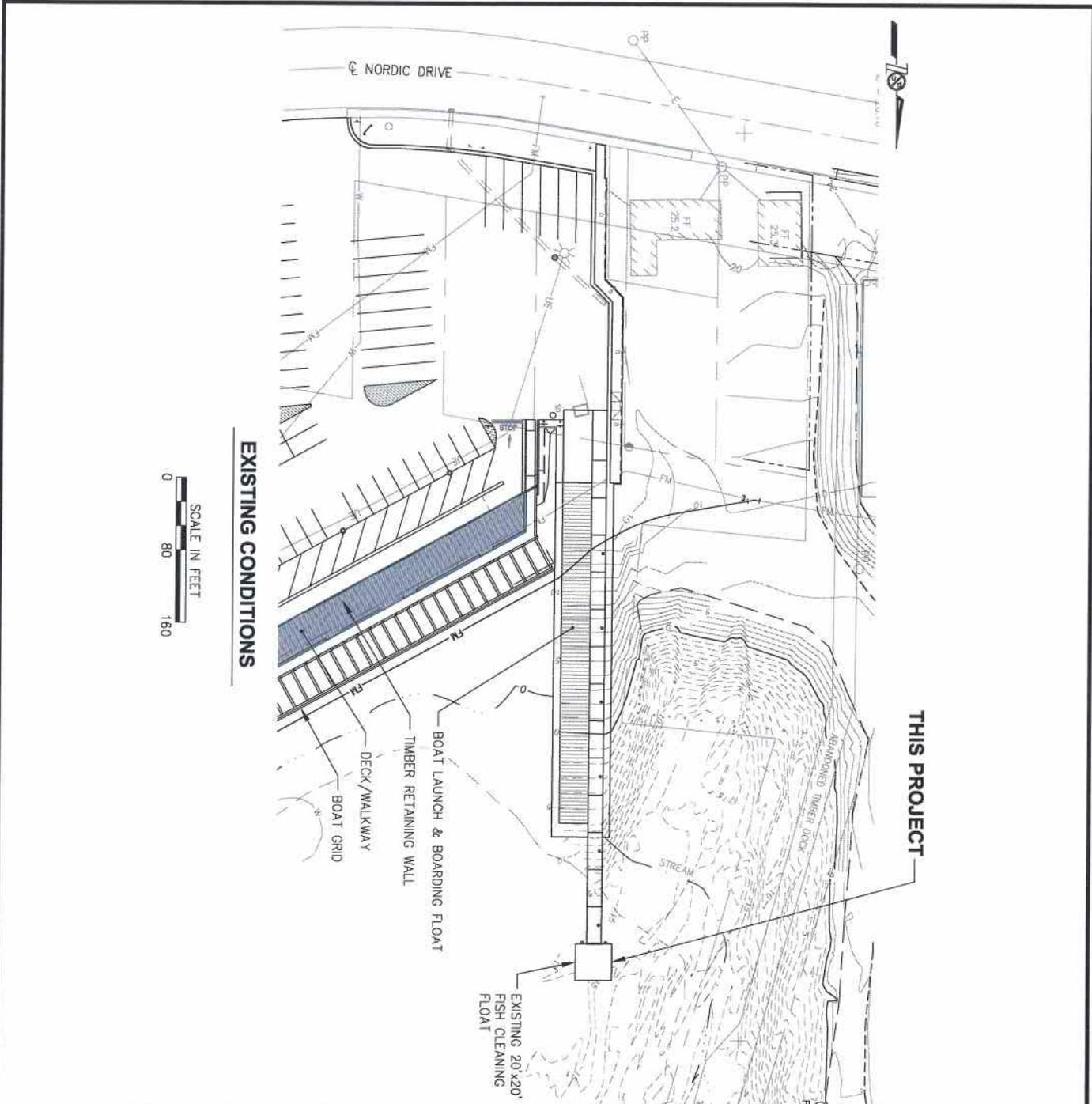
DATUM: MLLW= 0.0 FT
 HTL: 19.5'
 MHW: 14.8'

VICINITY MAP

PETERSBURG BOROUGH
 P.O. BOX 329
 PETERSBURG, ALASKA 99833

**SOUTH HARBOR
 LAUNCH RAMP
 FISH CLEANING FLOAT**

IN: WRANGELL NARROWS
 NEAR: SOUTH HARBOR
 AT: PETERSBURG, ALASKA
 BY: PETERSBURG BOROUGH



PURPOSE:
 TO REPLACE AN EXISTING
 FISH CLEANING FLOAT
 IMPROVE ACCESSIBILITY &
 PUBLIC SAFETY

DATUM: MLLW= 0.0 FT
 HTL: 19.5'
 MHW: 14.8'

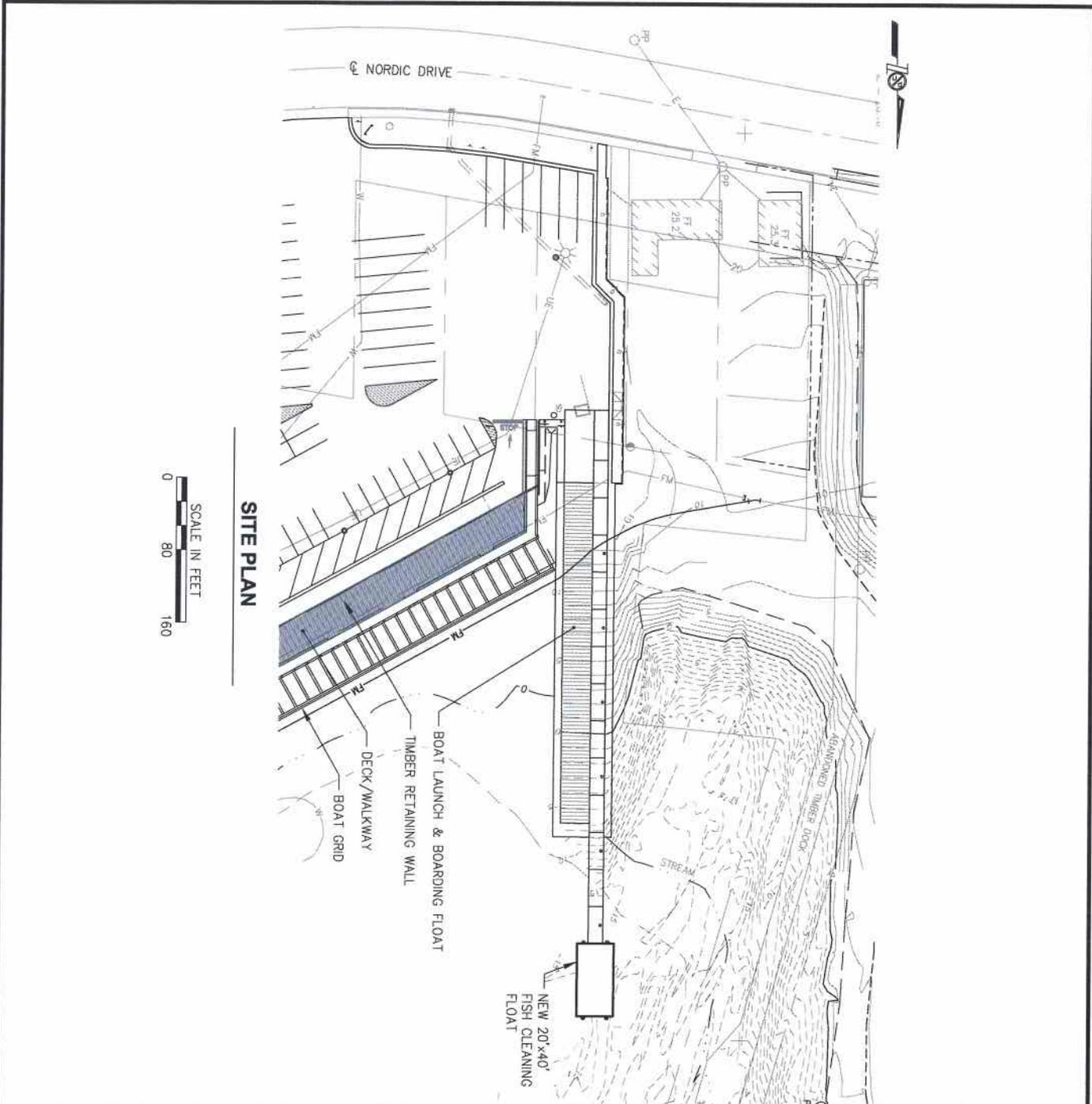
EXISTING CONDITIONS

PETERSBURG BOROUGH
 P.O. BOX 329
 PETERSBURG, ALASKA 99833

**SOUTH HARBOR
 LAUNCH RAMP
 FISH CLEANING FLOAT**

IN: WRANGELL NARROWS
 NEAR: SOUTH HARBOR
 AT: PETERSBURG, ALASKA
 BY: PETERSBURG BOROUGH

SHEET **2** of **6**



PURPOSE:
 TO REPLACE AN EXISTING
 FISH CLEANING FLOAT
 IMPROVE ACCESSIBILITY &
 PUBLIC SAFETY

DATUM: MLLW= 0.0 FT
 HTL: 19.5'
 MHW: 14.8'

SITE PLAN

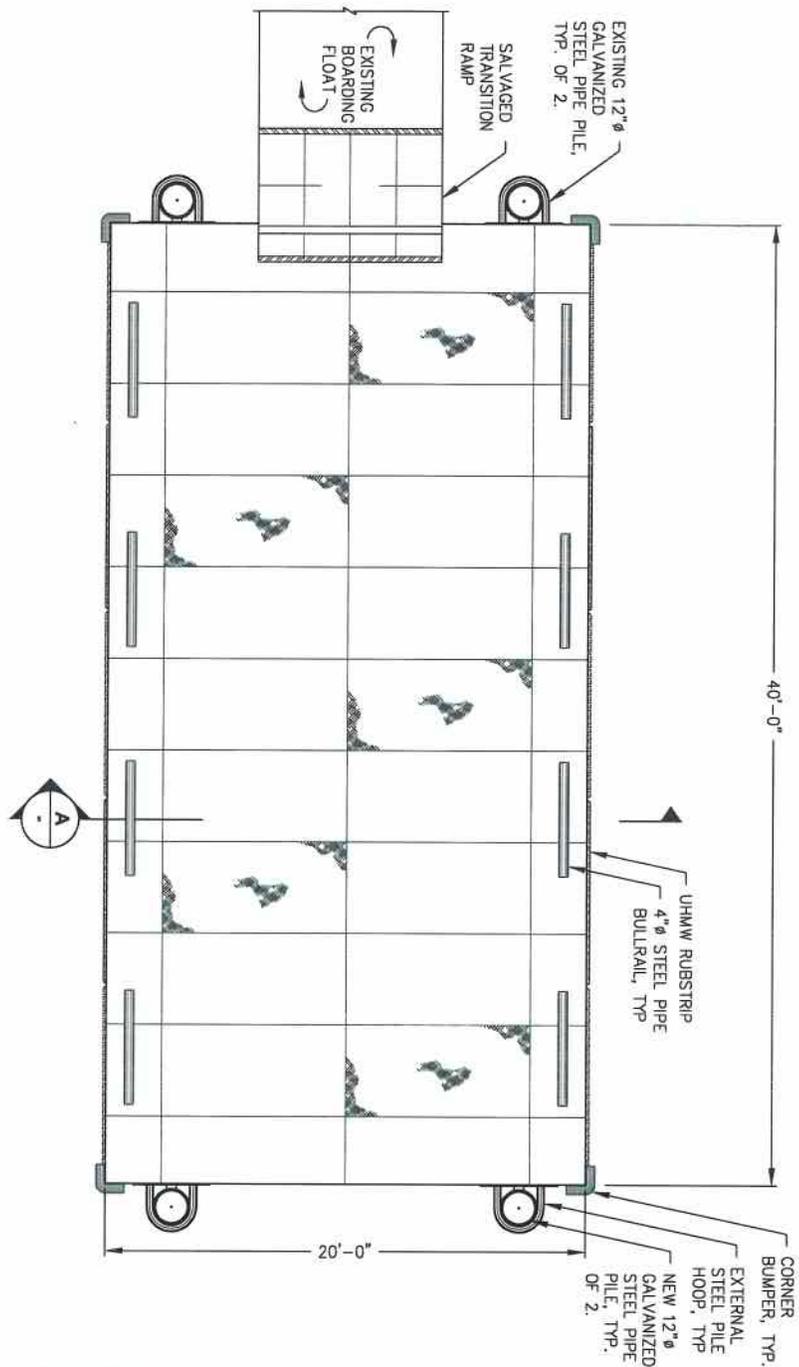
PETERSBURG BOROUGH
 P.O. BOX 329
 PETERSBURG, ALASKA 99833

**SOUTH HARBOR
 LAUNCH RAMP
 FISH CLEANING FLOAT**

IN: WRANGELL NARROWS
 NEAR: SOUTH HARBOR
 AT: PETERSBURG, ALASKA
 BY: PETERSBURG BOROUGH

SHEET **3** of **6**

FLOAT LAYOUT - PLAN



PURPOSE:
 TO REPLACE AN EXISTING
 FISH CLEANING FLOAT
 IMPROVE ACCESSIBILITY &
 PUBLIC SAFETY

DATUM: MLLW= 0.0 FT
 HTL: 19.5'
 MHW: 14.8'

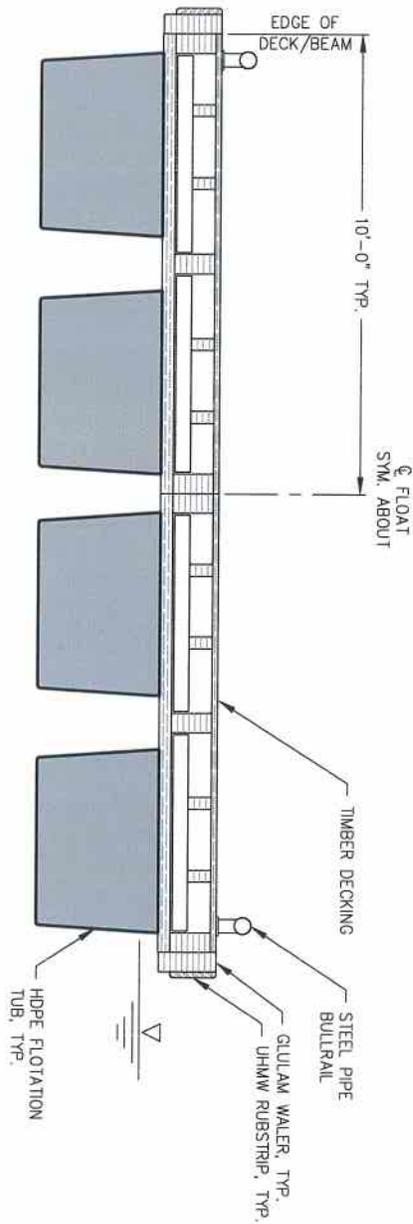
LAYOUT PLAN

PETERSBURG BOROUGH
 P.O. BOX 329
 PETERSBURG, ALASKA 99833

**SOUTH HARBOR
 LAUNCH RAMP
 FISH CLEANING FLOAT**

IN: WRANGELL NARROWS
 NEAR: SOUTH HARBOR
 AT: PETERSBURG, ALASKA
 BY: PETERSBURG BOROUGH

A
-
TYPICAL FLOAT SECTION



PURPOSE:
TO REPLACE AN EXISTING
FISH CLEANING FLOAT
IMPROVE ACCESSIBILITY &
PUBLIC SAFETY

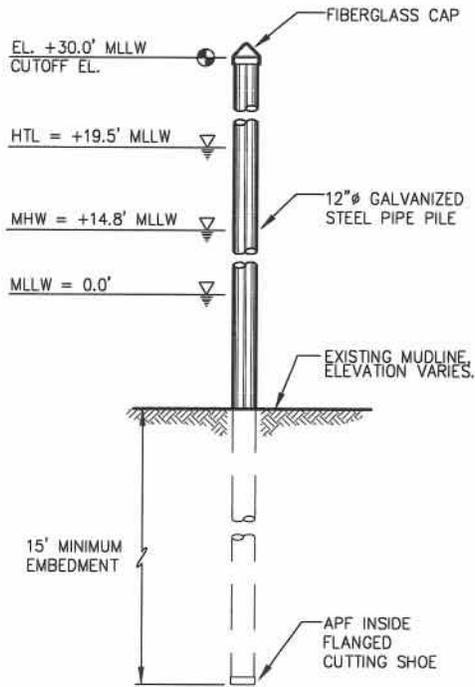
DATUM: MLLW= 0.0 FT
HTL: 19.5'
MHW: 14.8'

FLOAT SECTION

PETERSBURG BOROUGH
P.O. BOX 329
PETERSBURG, ALASKA 99833

**SOUTH HARBOR
LAUNCH RAMP
FISH CLEANING FLOAT**

IN: WRANGELL NARROWS
NEAR: SOUTH HARBOR
AT: PETERSBURG, ALASKA
BY: PETERSBURG BOROUGH



STANDARD INSTALLATION

PURPOSE:
 TO REPLACE AN EXISTING
 FISH CLEANING FLOAT
 IMPROVE ACCESSIBILITY &
 PUBLIC SAFETY

DATUM: MLLW= 0.0 FT
 HTL: 19.5'
 MHW: 14.8'

PILE DETAIL

PETERSBURG BOROUGH
 P.O. BOX 329
 PETERSBURG, ALASKA 99833

**SOUTH HARBOR
 LAUNCH RAMP
 FISH CLEANING FLOAT**

IN: WRANGELL NARROWS
 NEAR: SOUTH HARBOR
 AT: PETERSBURG, ALASKA
 BY: PETERSBURG BOROUGH

NEARBY HISTORIC PROPERTIES—NO ANTICIPATED IMPACT

NPS 91001937
(0.18 MILES)
CHUGACH (Ranger Boat)

NPS 05000285
(0.23 MILES)
F/V Charles (Schooner)

NPS 79003765
(0.30 MILES)
Sons of Norway Hall



AVOIDANCE AND MINIMIZATION MEASURES

This project includes the replacement of a previously authorized, currently serviceable structure which will maintain the same use specified in the original permit. The replacement float has been designed with minor deviations to the original size to the smallest size that will continue to meet the project purpose and need for recreational boaters and sport fishermen.

The measures to avoid, minimize, or mitigate impacts to marine are described below.

- Minimize noise impacts from pile driving. The Petersburg Borough will encourage the use of vibratory pile driving equipment as the primary installation method for the project.
 - Impact hammers shall only be allowed for piles that encounter soils too dense to penetrate with the vibratory equipment.
 - The specifications shall require the use of light duty cushion blocks. Use of a pile cushion between the impact hammer and the piling will help to attenuate sound.
 - The impact hammer energy will be limited to approximately 20,000 ft-lbs to minimize driving energy.
 - Timing for the installation of all piles shall consider sensitive fish habitat periods for juvenile salmon.
 - Small diameter piles will be used, when possible, to minimize potential harm to fish.
 - Where practicable, driving will occur at low tide in an effort to minimize potential impacts to fish and marine mammals.



REPLY TO
ATTENTION OF:

DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, ALASKA
REGULATORY DIVISION
P.O. BOX 6898
JBER, ALASKA 99506-0898

GENERAL PERMIT AGENCY COORDINATION (GPAC)

We are requesting your comments on the proposed project within ten (10) calendar days from the date of this notification. If additional time is needed to provide substantive, site-specific comments, contact us and we will wait an additional 15 calendar days before making a permit decision. Further information concerning the general permit can be found at our web site: <http://www.poa.usace.army.mil/reg>.

Comments on the proposal may be emailed to NAME@usace.army.mil, mailed to the address above, or you may call us at (907) [YOURDESKPHONE](tel:YOURDESKPHONE).

RELEASER'S SIGNATURE: _____

[Name](#)
[Project Manager/Regulatory Specialist](#)

Concurrence: _____

Corps of Engineers Identification: [POA-XXXX-XXX](#), Wrangell Narrows, Petersburg Borough

General Permit: Nationwide Permit 3, Maintenance

Date of GPAC: [Date GPAC is sent out – TODAY'S DATE](#)

Comment Period Closing Date: [DATE – 10 Calendar Days from TODAY](#)

For Questions, Please Contact: [Name](#)

Project Location: The project site is located within Section 27, Township 58 South, Range 79 East of the Copper River Meridian as found on USGS Quadrangle Map Petersburg D-3; Latitude 56. in Petersburg, Alaska.

Project Description: The applicant is proposing to remove the existing 20'x20' fish cleaning float and replace it with a 20'x40' fish cleaning float. The project will reuse the two existing 12" diameter galvanized steel pipe piles. Two new 12" diameter galvanized steel pipe piles will be driven on the north side of the float. The project site is located in Wrangell Narrows which is subject to the ebb and flow of the tide, and is a navigable waterway used for the transportation of interstate and foreign commerce. There is documented use of this area by interstate and foreign travelers, and by individuals and companies engaged in the harvesting of fish and shellfish. This project would allow for increased maneuverability and access for users as well as extend the life of the existing facility.

This project has been reviewed for impacts to species listed under the ESA, anadromous streams and Essential Fish Habitat, and cultural resources; and it has been determined there would be no effect to any of these resources.

Mitigation: The purpose of this project would be to perform maintenance on the existing structure. The applicant avoided and minimized to the maximum extent possible therefore, compensatory mitigation would not be necessary. A vibratory hammer would be used for all pile installation except where soils too

dense were encountered, in which case an impact hammer would be used. All work below the high tide line shall be limited to low tidal stages to reduce sound transmission and turbidity where practicable.

Enclosures: Sheets 1 – 6, Dated March 2013

Additional Information: The activity appears to meet the terms and conditions of Nationwide Permit 3. In that the South Harbor Launch Ramp Fish Cleaning Float is located in marine waters, agency coordination with this Pre-Construction Notification is required in accordance with Regional Condition B.

**PETERSBURG BOROUGH
SOUTH HARBOR LAUNCH RAMP
FISH CLEANING FLOAT**

XIII DRAWINGS