

PETERSBURG BOROUGH

**MIDDLE HARBOR FLOAT REPAIR
PROJECT MANUAL**

**CONTRACT DOCUMENTS &
SPECIFICATIONS**

Volume 1 of 2



Prepared By:



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APRIL 2015

**PETERSBURG BOROUGH
MIDDLE HARBOR FLOAT REPAIR**

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**PETERSBURG BOROUGH
MIDDLE HARBOR FLOAT REPAIR**

I INVITATION TO BID

**PETERSBURG BOROUGH
MIDDLE HARBOR FLOAT REPAIR**

INVITATION TO BID

Notice is hereby given that the Petersburg Borough will receive sealed bids for the Middle Harbor Float Repair. The project generally consists of demolition and disposal of one 10 foot by 60 foot float module, fabrication and installation of a new, replacement 10 foot by 60 foot float module, removal and salvage of specified float components, water, electrical and safety items from the existing float, and installation of same items on the new float.

The estimated construction cost for the base bid is between \$140,000 and \$170,000. All Work must be completed by October 31st, 2015.

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 Thursday, May 21st, 2015 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. A non-refundable fee of \$100.00 made payable to the Petersburg Borough is required for each set of Contract Documents. Petersburg Standard Specifications (CPSS) are available for an additional fee of \$60.00 made payable to the Petersburg Borough. Additional charges will be required for special handling or delivery of the documents by means other than first class mail. All documents may be obtained at the Public Works Department, 303 South 2nd Street, (907) 772-4430, Ext. 36.

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 April 28th, 2015 beginning at 12:00 PM at the Assembly Chambers. Attendance by teleconference will be available by calling 1-800-315-6338. Callers will need to enter the following access code: 10471047#. Technical questions regarding this project shall be directed to Harbormaster Glorianne Wollen 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

**PETERSBURG BOROUGH
MIDDLE HARBOR FLOAT REPAIR**

II BIDDER'S CHECKLIST

**PETERSBURG BOROUGH
MIDDLE HARBOR FLOAT REPAIR**

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

**PETERSBURG BOROUGH
MIDDLE HARBOR FLOAT REPAIR**

III BID PROPOSAL

**PETERSBURG BOROUGH
MIDDLE HARBOR FLOAT REPAIR
BID PROPOSAL**

Item No.	Pay Item Description (Unit Bid Price in Words)	Approx. Quantity	Unit Price	Total Price
1501.1	MOBILIZATION / DEMOBILIZATION, at: <hr/> <div style="text-align: right;">Per Lump Sum</div>	All Req'd		
2060.1	DEMOLITION, SALVAGE, AND DISPOSAL, at: <hr/> <div style="text-align: right;">Per Lump Sum</div>	All Req'd		
2895.1	FURNISH & INSTALL NEW 10'x60' MAINWALK FLOAT <hr/> <div style="text-align: right;">Per Lump Sum</div>	All Req'd		
2895.2	INSTALL SALVAGED HINGES, FINGER FLOATS, PILE HOOPS AND COUNTERWEIGHTS <hr/> <div style="text-align: right;">Per Lump Sum</div>	All Req'd		
2895.3	INSTALL SALVAGED ELECTRICAL PEDESTALS, LIGHTING, BASES, CABLING, AND HEAT TRACE <hr/> <div style="text-align: right;">Per Lump Sum</div>	All Req'd		
2895.4	INSTALL SALVAGED WATERLINE, HANGERS, AND PEDESTAL <hr/> <div style="text-align: right;">Per Lump Sum</div>	All Req'd		
2895.5	INSTALL SALVAGED LIFE RING AND FIRE EXTINGUISHER CABINETS <hr/> <div style="text-align: right;">Per Lump Sum</div>	All Req'd		
TOTAL BID AMOUNT (In Figures): _____				
TOTAL BID AMOUNT (In Words): _____				
BIDDER NAME: _____				

**BID PROPOSAL
(CERTIFICATION)**

TO: PETERSBURG BOROUGH _____, 2015
NO. 12 SOUTH NORDIC DRIVE
POST OFFICE BOX 329
PETERSBURG, ALASKA 99833

SUBJECT: Project Title: **MIDDLE HARBOR FLOAT REPAIR**

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

**PETERSBURG BOROUGH
MIDDLE HARBOR FLOAT REPAIR**

IV BID BOND

**PETERSBURG BOROUGH
MIDDLE HARBOR FLOAT REPAIR**

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 :

**PETERSBURG BOROUGH
MIDDLE HARBOR FLOAT REPAIR**

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.

**PETERSBURG BOROUGH
MIDDLE HARBOR FLOAT REPAIR**

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

**PETERSBURG BOROUGH
MIDDLE HARBOR FLOAT REPAIR**

V EQUAL EMPLOYMENT OPPORTUNITY

**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

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

OFFICE USE ONLY

Address (Number and street)

City or town

State

ZIP code

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

a. Name of establishment

Address (Number and street)

City or Town

County

State

ZIP code

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

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

**PETERSBURG BOROUGH
MIDDLE HARBOR FLOAT REPAIR
VI NON-COLLUSION AFFIDAVIT**

**PETERSBURG BOROUGH
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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.

The earliest field start for on-site Work shall be August 1st, 2015. Final Contract Completion shall be achieved no later than October 31st, 2015.

_____, the Contractor, and his Sureties shall be liable for and shall pay the Owner the sum of fifteen hundred dollars (\$1,500) 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.

**PETERSBURG BOROUGH
MIDDLE HARBOR FLOAT REPAIR**

VIII CONTRACT PERFORMANCE AND PAYMENT BONDS

**PETERSBURG BOROUGH
MIDDLE HARBOR FLOAT REPAIR
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:

MIDDLE HARBOR FLOAT REPAIR

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.

**PETERSBURG BOROUGH
MIDDLE HARBOR FLOAT REPAIR**

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

(Affix SURETY'S SEAL)

Address - Zip Code

Witness as to Surety

Address - Zip Code

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

**PETERSBURG BOROUGH
MIDDLE HARBOR FLOAT REPAIR**

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 The City of Petersburg 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:

MIDDLE HARBOR FLOAT REPAIR

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.

**PETERSBURG BOROUGH
MIDDLE HARBOR FLOAT REPAIR**

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

**PETERSBURG BOROUGH
MIDDLE HARBOR FLOAT REPAIR**

IX MINIMUM RATES OF PAY

**PETERSBURG BOROUGH
MIDDLE HARBOR FLOAT REPAIR**

MINIMUM RATES OF PAY

- I. General: The Contractor shall be responsible to pay all workers the state rates listed herein.
- II. State: State of Alaska, Department of Labor, Laborers' and Mechanics' Minimum Rates of Pay, AS 36.05.010 and A.S. 36.05.00, Wage and Hour Administration, Pamphlet No. 600, the latest edition published by the State of Alaska, Department of Labor inclusive, are made a part of this Contract by reference. The Contractor is responsible for contacting the Alaska Department of Labor to determine compliance with current regulations prior to bid.

III. Required Reporting During Contract (to be reported by every Contractor and Subcontractor):

- A. Before each Friday, each Contractor and Subcontractor must file Certified Payrolls with Statements of Compliance for the previous 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:

Wage and Hour Section
Labor Law Compliance Division
Alaska Department of Labor
P.O. Box 020630-0630
Juneau, Alaska 99801
(907) 465-4842

Petersburg Borough
Borough Manager
P.O. Box 329
Petersburg, Alaska 99833
(907) 772-4511

- B. Within 10 days of Notice of Award/Notice to Proceed make a list of all Subcontractors. Include their names, address, phone numbers, estimated subcontract amount, and estimated start and finish dates. Send list to both addresses above.
- C. As part of the final payment request package, provide the following:
1. A completed Compliance Certificate and Release form from every Contractor and Subcontractor.
 2. A final Subcontractor list complete with final subcontract amounts and including all equipment rentals (with operators.)

**PETERSBURG BOROUGH
MIDDLE HARBOR FLOAT REPAIR**

X CPSS SPECIAL PROVISIONS

**PETERSBURG BOROUGH
MIDDLE HARBOR FLOAT REPAIR**

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

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.

SECTION 30.01 GENERAL

Article 1.6 Mix Requirements for Classes of Concrete

The Minimum Cement Content in Sacks/ Cu. Yd. for Class AA-3 Concrete shall be required to be 7.0.

The Minimum Design Strength (f_c), psi shall be required to be 4000.

SECTION 30.03 PORTLAND CEMENT CONCRETE SIDEWALKS

Article 3.2 Materials

Replace the words “Class A-3” with “Class AA-3” in the last sentence of the first paragraph.

END OF SECTION

**PETERSBURG BOROUGH
MIDDLE HARBOR FLOAT REPAIR**

XI SUPPLEMENTAL TECHNICAL SPECIFICATIONS

**PETERSBURG BOROUGH
MIDDLE HARBOR FLOAT REPAIR**

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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 and disposal, fabrication and installation of timber moorage floats, and salvage and re-installation of existing float utilities and appurtenances as specified on the Plans.

1.3 SITE OF THE WORK

A. The site of the WORK is located in Petersburg, Alaska at Middle 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:

WORK DESCRIPTION	COMPLETION DATE
Final Completion of all WORK under the Contract Documents	October 31 st , 2015

1.5 CONTRACT METHOD

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

1.6 WORK BY OTHERS

A. The CONTRACTOR's attention is directed to the fact that work may be conducted at the site by other contractors during the performance of the WORK under this Contract. The CONTRACTOR shall conduct its operations so as to cause a minimum of interference with the work of such other contractors, and shall cooperate fully with such contractors to provide continued safe access to their respective portions of the site, as required to perform work under their respective contracts.

B. Interference With Work On Utilities: The CONTRACTOR shall cooperate fully with all utility forces of the OWNER or forces of other public or private agencies engaged in the relocation, altering, or otherwise rearranging of any facilities which interfere with the progress of the

SECTION 01010 - SUMMARY OF WORK

WORK, and shall schedule the WORK so as to minimize interference with said relocation, altering, or other rearranging of facilities.

1.7 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. Staging areas shall be provided as shown on the plans. The CONTRACTOR shall coordinate with the Harbormaster for confirmation of final staging area limits.

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

1.9 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.

SECTION 01010 - SUMMARY OF WORK

- 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 4 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.

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.

1.10 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.

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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

- 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. Coordination with Petersburg Harbormaster to relocate vessels during construction.
 - 4. Siltation and pollution control.
 - 5. Maintenance of all services through the Project area, including water, storm, garbage pickup, mail delivery, other deliveries and emergency vehicles.
 - 6. All traffic control, including flaggers.
 - 7. Miscellaneous connecting and attachment hardware as required to install new equipment.
 - 8. Transport, shipping and delivery of all materials to the project site, undamaged and in new condition.

PART 2 - PAY ITEMS

DIVISION 1 – GENERAL REQUIREMENTS

1.1 MOBILIZATION (Pay Item Nos. 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 on the Bid Schedule 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.
- 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.

SECTION 01025 - MEASUREMENT AND PAYMENT

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.

DIVISION 2 – SITE WORK

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

- A. Measurement for payment for Demolition, Salvage and Disposal will be based upon the completion of the entire WORK as a Lump Sum Pay Unit, complete, and all in accordance with the requirements of the Contract Documents and as shown on the Plans.
- B. Payment for Demolition, Salvage and Disposal 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, Salvage and Disposal, as shown on the Plans and as directed by the ENGINEER.

2.2 FURNISH AND INSTALL NEW 10'x60' MAINWALK FLOAT (Pay Item No. 2895.1) PRICE BASED ON LUMP SUM

- A. Measurement for payment for Furnish and Install New 10'x60' Mainwalk Float shall be based upon the completion of the entire WORK as a Lump Sum Pay Unit, complete, and all in accordance with the requirements of the Contract Documents and as shown on the Plans.
- B. Payment for Furnish and Install New 10'x60' Mainwalk Float 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.

2.3 INSTALL SALVAGED HINGES, FINGER FLOATS, PILE HOOPS, AND COUNTERWEIGHTS (Pay Item No. 2895.2) PRICE BASED ON LUMP SUM

- A. Measurement for payment for Install Salvaged Hinges, Finger Floats, Pile Hoops, and Counterweights shall 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 Hinges, Finger Floats, Pile Hoops, and Counterweights shall be made at the amount shown on the Bid Schedule under Pay Item No. 2895.2, 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 INSTALL SALVAGED ELECTRICAL PEDESTALS, LIGHTING, BASES, CABLING AND HEAT TRACE (Pay Item No. 2895.3) PRICE BASED ON LUMP SUM

- A. Measurement for payment for Install Salvaged Electrical Pedestals, Lighting, Bases, Cabling and Heat Trace 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 and as shown on the Plans.
- B. Payment for Install Salvaged Electrical Pedestals, Lighting, Bases, Cabling and Heat Trace

SECTION 01025 - MEASUREMENT AND PAYMENT

shall be made at the amount shown on the Bid Schedule under Pay Item No. 2895.3, 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.

2.5 INSTALL SALVAGED WATERLINE, HANGERS, AND PEDESTAL (Pay Item No. 2895.4) PRICE BASED ON LUMP SUM

- A. Measurement for payment for Install Salvaged Waterline, Hangers, and Pedestal 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 and as shown on the Plans.
- B. Payment for Install Salvaged Waterline, Hangers, and Pedestal shall be made at the amount shown on the Bid Schedule under Pay Item No. 2895.4, 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.

2.6 INSTALL SALVAGED LIFE RING AND FIRE EXTINGUISHER CABINETS (Pay Item No. 2895.5) PRICE BASED ON LUMP SUM

- A. Measurement for payment for Install Salvaged Life Ring and Fire Extinguisher Cabinets 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 and as shown on the Plans.
- B. Payment for Install Salvaged Life Ring and Fire Extinguisher Cabinets shall be made at the amount shown on the Bid Schedule under Pay Item No. 2895.5, 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.

PART 3 - PRODUCTS (Not Used)

PART 4 - 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, SALVAGE AND DISPOSAL

PART 1 - GENERAL

1.1 DESCRIPTION

- A. WORK under this Section shall include all labor, materials, tools and equipment necessary for the demolition, salvage and proper offsite disposal or storage of all items as shown on the Plans or as otherwise required to complete all WORK. 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.

1.2 SUBMITTALS

- A. Provide public notification in local newspaper and on local radio to notify public of anticipated interruption to moorage, access and parking services within the general harbor area. Provide copy of all public notices to ENGINEER for review prior to placing notices.
- B. Provide a demolition and salvage plan to ENGINEER for review for review prior to start of demolition. Plan should include CONTRACTOR'S proposed methods for demolishing all of the items noted for demolition, as well as the proposed methods for salvaging the items noted for salvage.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 EXAMINATION AND PREPARATION

- A. The CONTRACTOR shall visit the site to ascertain existing conditions and to determine the complete scope of demolition, salvage and disposal WORK prior to bidding. Examine conditions on site with ENGINEER and OWNER prior to commencement of WORK.
- 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 the OWNER on the schedule and work sequencing at least five days prior to commencement of any demolition activities.
- B. The CONTRACTOR shall remove and dispose, in its entirety, the float module designated for demolition on the plans, including but not limited to all timber components and steel hardware not otherwise designated for salvage.
- C. Place construction signs and barricades as required to prevent public entry into Work area.

SECTION 02060 – DEMOLITION, SALVAGE AND DISPOSAL

3.3 SALVAGE

- A. Items listed below shall be salvaged from the existing floats. Salvaged items shall be stored and transported with care to avoid damage. Connection hardware damaged during the salvage process shall be repaired or replaced in kind at the ENGINEER's discretion. Coatings damaged during the salvage process shall be repaired as described in 05120 Metal Fabrication.
1. All existing piano hinges connected to the float shall be salvaged, including all associated connection hardware, rubber bushings and connection rods.
 2. All existing 4'x26' finger floats shall be salvaged. Floats shall be maintained and stored in an upright position at all times from the time of disassembly to time of reinstallation.
 3. All existing pile hoops shall be salvaged, including all associated connection hardware.
 4. All existing electrical utility components shall be salvaged, including cables, pedestals, pedestal bases, heat trace assemblies, lighting assemblies, and all associated connection hardware.
 5. All existing water utility components shall be salvaged, including pedestal, pedestal bracket, submerged water line, hangers, and all associated connection hardware.
 6. All existing safety equipment shall be salvaged, including the Life Ring Cabinet, Fire Extinguisher Cabinet, and all associated connection hardware.
 7. All steel counterweights shall be salvaged, and all associated connection hardware.
 8. All electrical access plates shall be salvaged and given to the OWNER.

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, transport, and installation of the complete replacement timber float module along with all associated connecting hardware, and all other related Work in accordance with the requirements of the Contract Documents and as shown on the Plans.
- B. The WORK in this Section shall also include all labor, materials, tools and equipment necessary for the installation of salvaged float components and all associated connection hardware on the new replacement timber float module, 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. Timber Float Assembly Drawings. Timber Float Assembly Drawings shall illustrate and demonstrate all elements (timbers, steel weldments, assemblies, hardware and foam billets) that make up the float module, as well as the location and position of the elements on the float.
- 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

SECTION 02895 - TIMBER FLOATS

illustrating geometry, chamfers, and any required notches for each billet type.

- G. UHMW (Ultra High Molecular Weight) Polyethylene - Submit product specific material specifications and Fabrication Shop Drawings for each type of UHMW piece.
- H. 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 cooresponding shop fabrication drawings.
- I. Fiberglass Cable Tray – Submit manufacturer’s published literature for specific product, accessories and associated attachment hardware along with shop fabrication drawings illustrating cable tray segment lengths used.
- J. Float Handling Plan - CONTRACTOR shall coordinate with the float fabricator and 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 float unit.
- K. Float Fabricator’s Quality Assurance Program - Submit copy of quality assurance program float fabricator proposes to use during the float fabrication process.
- L. Product Data: Provide technical data on billet coating product. Data shall include product description, color, performance characteristics, and limitations.

PART 2 - PRODUCTS

2.1 MATERIALS - All materials for float components 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, 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 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, 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) = 2,400 psi

Horizontal Shear (Fv) = 265 psi

Modulus of Elasticity (E) = 1,800,000 psi

SECTION 02895 - TIMBER FLOATS

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.

- B. All sawn timber shall be surfaced four sides (S4S), unless otherwise noted on the Plans, and conform to No. 1 and better Coastal Region Douglas Fir, according to WCLIB Grading Rules. 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" 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 (Petersburg, Alaska), 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. CONTRACTOR shall determine total number of deck boards required to achieve 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 should ensure deck material has minimal amount of wane. Deck timbers containing wane shall be installed with wane facing down and top face rough cut per specifications.

All 6x6 bullrail timbers shall have all edges chamfered 1/4-inch, unless otherwise noted.

- 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

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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 floatation 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 – Maximum of 1/4-inch gap between billet and adjacent, glulam beam.
 2. Length – Maximum of 1/2-inch gap between billet and adjacent, glulam diaphragm.
- D. Miscellaneous steel plates and shapes shall be ASTM A36, galvanized per ASTM A123 or A153, and comply with Section 05120 - Metal Fabrication.
- E. Bolts, piano hinge connection rods, and miscellaneous hardware shall comply with Section 05120 – Metal Fabrication.
- F. 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.
- G. 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.
- H. Fiberglass cable tray shall be as manufactured by *MPHUSKY Corporation*, or approved equal. Cable tray shall be “ladder-type” 18-inches in width with 4-inch side rails, 3-inch loading depth, and 9-inch rung spacing (i.e. *MPHUSKY* Series 4). Cable tray shall be attached with galvanized or Type 316 stainless steel hardware and fasteners. Submit cable tray and mounting hardware specifications, along with any necessary drawings to illustrate cable tray segment lengths and proposed mounting method, for ENGINEER approval.
- I. All materials shall conform to good workmanship, acceptable industry standards and manufacturer’s recommendations.

2.2 DELIVERY, STORAGE, AND PROTECTION

- A. All timber shall be protected during transportation to and from treatment facilities. There shall be no mechanical damage to timbers from steel banding, handling, etc. Timber shall be stored above ground on pallets, platforms or other supports.

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- B. 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.
- C. Protect float timber and flotation billets during handling and transport to jobsite.

PART 3 – EXECUTION

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.

SECTION 02895 - TIMBER FLOATS

- 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.
- 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 manufacturer shall be prepared to apply more layers as necessary to obtain the required minimum thickness. The manufacturer 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 manufacturer 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 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

SECTION 02895 - TIMBER FLOATS

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. 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.
- C. Salvaged hinges, finger floats, counterweights and pile hoops shall be installed at the locations shown on the plans. The CONTRACTOR shall furnish any fasteners or hardware required for installation.
- D. Salvaged electrical pedestals, bases, lighting, cabling and heat trace shall be installed as shown on the Plans. All electrical systems shall be returned to working order, the CONTRACTOR shall furnish any hardware that is required to perform this work.
- E. Salvaged waterline, hangers and pedestals shall be installed as shown on the plans, and shall be returned to working order. The CONTRACTOR shall furnish any hardware that is required to perform this work.
- F. Salvaged Life Ring and Fire Extinguisher Cabinets shall be installed as shown on the plans. The CONTRACTOR shall furnish any hardware that is required to perform this work.

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 to fabricate and install all structural steel and aluminum in accordance with the requirements of the Contract Documents and as indicated 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 A6 – General Requirements for Rolled Steel Plates, Shapes, Sheet Piling, and Bars for Structural Steel.
- D. ASTM A36/A36M - Structural Steel.
- 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 A572 – High-Strength Low-Alloy Columbium-Vanadium Steels of Structural Quality.
- L. ASTM F593 – Stainless Steel Bolts, Hex Cap Screws, and Studs.
- M. ASTM F594 – Stainless Steel Nuts.
- N. ASTM A673 – Sampling Procedure for Impact Testing of Structural Steel.
- O. ASTM A27 – Steel Castings, Carbon, for General Application.
- P. AWS D1.1 - Structural Welding Code - Steel.
- Q. The Aluminum Association – Aluminum Design Manual: Specifications and Guidelines for Aluminum Structures.
- R. ASTM B209 – Standard Specifications for Aluminum and Aluminum-Alloy Sheet and Plate.

SECTION 05120 – METAL FABRICATION

- S. ASTM B210 – Standard Specifications for Aluminum and Aluminum-Alloy Drawn Seamless Tube.
- T. ASTM B221 – Standard Specifications for Aluminum and Aluminum-Alloy Bar, Rod, Wire, Profiles and Tubes.
- U. ASTM B241 – Standard Specifications for Aluminum and Aluminum-Alloy Seamless Pipe and Seamless Tube.
- V. ASTM B308 – Standard Specifications for Aluminum and Aluminum-Alloy 6061-T6 Standard Structural Profiles.
- W. AWS D1.2 - Structural Welding Code - Aluminum.
- X. SSPC (Steel Structures Painting Council) – Painting Manual
- Y. SSPC Guide 23 for Spray Metalizing.

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 within the previous 12 months.
- G. 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.
- H. Manufacturer's certification for steel castings.

SECTION 05120 – METAL FABRICATION

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. Installer Qualifications: Engage an experienced Installer who has completed structural steel work similar in material, design, and extent to that indicated for this Project and with a record of successful in-service performance.
- D. 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. Fabricator shall be an ICBO “Approved Fabricator” as defined in Section 1701.7 of the 1997 Edition of the Uniform Building Code or an AISC Certified Fabricator.
- E. 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 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.

- F. 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.

SECTION 05120 – METAL FABRICATION

- G. Fabricator Qualifications: Fabricator must have completed metal fabrication work similar in material, design, and extent to that indicated for this Project, and with a record of successful in-service performance.
- H. Welding Standards: Comply with applicable provisions of AWS D1.1 Structural Welding Code - Steel and AWS D1.2 Structural Welding Code – Aluminum.
 - 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. Keep materials off ground by using pallets, platforms, or other supports. Protect steel members and packaged materials from erosion and deterioration.
 - 1. Store fasteners in a protected place. Clean and re-lubricate bolts and nuts that become dry or rusty before use.
 - 2. 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 Design Contract Documents and as shown on the Design 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. Miscellaneous steel shapes and all plate steel shall be ASTM A36, hot-dip galvanized.
 - B. Structural steel tubes shall be ASTM A500 Grade B, hot-dip galvanized.
 - C. Steel pipe shall be ASTM A53, Grade B, Type E or S, hot-dip galvanized.
 - D. Bolts and Miscellaneous Hardware: Unless otherwise noted, all bolts shall be ASTM A307, hot-dip galvanized. Round plate washers shall be hot-dip galvanized and shall be used in all areas where the bolt head or nut bear against wood, except under economy head bolts. All bolts, piano hinge connection rods, nuts, washers, and miscellaneous

SECTION 05120 – METAL FABRICATION

hardware called out as Stainless Steel shall be Type 316 Stainless Steel. All bolts called out as ASTM A325 shall be hot-dip galvanized. A325 bolts shall be installed per AISC turn-of-nut method, unless otherwise indicated on the plans. Washers shall be used in all areas where the bolt head or nut shall bear against oversized holes in steel (i.e. more than 1/16 inch larger than bolt diameter). All nails shall be hot-dip galvanized.

- E. Aluminum for gangway shall conform to 6061-T6, unless otherwise noted. Aluminum pipe for gangway rails shall be 6063-T6.

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. Walking surface of all electrical access plates, and specified gangway landing float transition plates, (aluminum diamond plate) shall be flame sprayed or arc-sprayed with aluminum composite to achieve a non-skid surface. Product shall be Duralcan 90/10 as manufactured by Alco Tec Wire Company (phone # 616-941-4111). Apply per manufacturers' recommendations.

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 galvanizing shall be fully repaired per AWS D 1.1.

SECTION 05120 – METAL FABRICATION

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.
- 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.
- F. 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.

SECTION 05120 – METAL FABRICATION

- F. All welding shall be in accordance with AWS D1.1 or AWS D1.2, 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 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 performed. The galvanizing within one inch of the weld shall be removed and repaired, after welding, according to these Specifications. All weld 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.
- G. 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° - 500°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.
 7. Remove flux residues by wiping with a damp cloth or rinsing with water.
 8. Brush apply two coats zinc rich paint, ZRC or equal (cold galvanize repair).

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 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 metal coatings for all project components specified to be coated. 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.

PART 2 - PRODUCTS

2.1 GALVANIZING

- A. All steel components shall be hot-dip galvanized, unless otherwise noted. Galvanizing shall be per ASTM A123 or A153, as appropriate.

SECTION 09900 - COATINGS

2.2 THERMAL SPRAY METALLIC COATING

- A. Shall conform to SSPC Guide No. 23.
- B. Thermal Spray Metallic Coating shall be with 85% zinc/15% aluminum to a minimum dry coating thickness of 12 mils.

2.3 NON-SKID

- A. Metal surfaces specified to be Non-Skid shall be thermal arc-sprayed with TH604 and/or TH605, as manufactured by *Thermion*, to achieve a very aggressive surface profile. Blast surface and prep as required by Non-Skid coating manufacturer, prior to Non-Skid coating application. The following items shall have Non-Skid coatings:
 - 1) All transition plates, fuel trench cover plates (top surface only), and all other surfaces identified on the Plans to have non-skid surface.

PART 3 - EXECUTION

3.1 PREPARATION AND APPLICATION

- A. Galvanizing shall be per ASTM A123 or A153, as appropriate. 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, having a minimum dry film coating thickness of 12 mils. Thermal Spray Metallic Coating damaged from shipping, handling, welding or by other means shall be repaired in accordance with Sub-Section 3.2.
- C. Metal surfaces specified to be Non-Skid shall be prepared per coating manufacturer's recommendations and submitted Quality Plan. Coating thickness shall be 10 mils minimum. Seal and top coat per manufacturer's recommendations.

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. Galvanized and/or Thermal Spray Metallic Coatings damaged due to fabrication, welding, material handling or occurring during installation shall be repaired using the following hot-applied repair per Section 05120, Subsection 3.2, paragraph G.

END OF SECTION

**PETERSBURG BOROUGH
MIDDLE HARBOR FLOAT REPAIR**

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

**PETERSBURG BOROUGH
MIDDLE HARBOR FLOAT REPAIR
BID PROPOSAL**

Item No.	Pay Item Description (Unit Bid Price in Words)	Approx. Quantity	Unit Price	Total Price
1501.1	MOBILIZATION / DEMOBILIZATION, at:	All Req'd		
	Per Lump Sum			
2060.1	DEMOLITION, SALVAGE, & DISPOSAL, at:	All Req'd		
	Per Lump Sum			
2895.1	FURNISH & INSTALL NEW 10'x60' MAINWALK FLOAT, at:	All Req'd		
	Per Lump Sum			
2895.2	INSTALL SALVAGED HINGES, FINGER FLOATS, PILE HOOPS AND COUNTERWEIGHTS, at:	All Req'd		
	Per Lump Sum			
2895.3	INSTALL SALVAGED ELECTRICAL PEDESTALS, LIGHTING, BASES, CABLING, AND HEAT TRACE, at:	All Req'd		
	Per Lump Sum			
2895.4	INSTALL SALVAGED WATERLINE, HANGERS, AND PEDESTAL, at:	All Req'd		
	Per Lump Sum			
2895.5	INSTALL SALVAGED LIFE RING AND FIRE EXTINGUISHER CABINETS, at:	All Req'd		
	Per Lump Sum			
TOTAL BID AMOUNT (In Figures): _____				
TOTAL BID AMOUNT (In Words):				
BIDDER NAME:				

**BID PROPOSAL
(CERTIFICATION)**

TO: PETERSBURG BOROUGH _____, 2015
NO. 12 SOUTH NORDIC DRIVE
POST OFFICE BOX 329
PETERSBURG, ALASKA 99833

SUBJECT: Project Title: **MIDDLE HARBOR FLOAT REPAIR**

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 Number: _____
-------	--

Bidder/Company Name

Address of Bidder

_____	_____
-------	-------

Signature

Phone _____

Name/Title

**PETERSBURG BOROUGH
MIDDLE HARBOR FLOAT REPAIR**

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 :

**PETERSBURG BOROUGH
MIDDLE HARBOR FLOAT REPAIR**

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.

**PETERSBURG BOROUGH
MIDDLE HARBOR FLOAT REPAIR**

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

**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/eo1/eo1.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. 01/2009

O.M.B. No. 3045-0077
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

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

OFFICE
USE
ONLY

Address (Number and street)

a.

City or town

State

ZIP code

b.

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 zero.

Job Categories	Number of Employees (Report employees in only one category)															Total Col A - N	
	Race/Ethnicity																
	Hispanic or Latino		Not-Hispanic or Latino														
	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