<u>Overview.</u> The City and Borough of Wrangell, invites sealed bids for the purchase of an 80' x 6' Aluminum Gangway for the Wrangell City Dock. Bids will be received at the office of the Borough Clerk until 2:00 p.m. on January 6, 2016.

<u>Description of the Work.</u> The scope of work includes the construction and delivery, FOB Seattle, WA docks, of one 80' (1) x 6' gangway as described in the contract documents.

<u>Completion of Work.</u> Delivery shall be made to the port of Seattle, Washington no later than March 30, 2016. Time is of the essence, and deliveries made after April 28, 2016 will have liquidated damages assessed.

<u>Point of Contact.</u> For pre-bid questions about the scope of work, please contact Harbor Master, Greg Meissner, Telephone 907-305-0719.

Instructions to Bidders.

- 1. Sealed bids will be received by the City and Borough of Wrangell, Post Office Box 531, Wrangell, Alaska 99929, or located at the Borough Clerk's Office, 205 Brueger Street, Wrangell, Alaska 99929, until 2:00 PM prevailing time on January 6, 2016. The Bids will be publicly opened and read at 2:00 PM on January 6, 2016 in the City and Borough of Wrangell's Council Chambers in Wrangell, Alaska.
- 2. All bids must be submitted in sealed envelopes bearing on the outside the name of the project for which the bid is submitted. It is the sole responsibility of the Bidder to see that their bid is received in proper time. Any bid received after the scheduled closing time for receipt of bids will be returned to the Bidder unopened.
- 3. Bids must be typewritten or completed with pen and ink, signed by the Bidder or their authorized representative, with all erasures or corrections initialed and dated by the official signing the Bid. Bids are to remain firm for thirty (30) days.

The Bid Price shall include everything necessary for the fulfillment of the contract, including, but not limited to, furnishing all labor, materials and equipment, except as may be provided otherwise in the Contract Documents. In the event of a difference between a price bid in words and a price bid in figures for the same bid, the words shall be the amount bid.

4. Modifications to Bids. Any Bidder may modify his bid by submitting a written modification signed by the Bidder. Modifications may be either hand delivered (205 Brueger Street, Wrangell, AK 99929), mailed (P.O. Box 531, Wrangell, AK 99929), faxed (Fax: 907-874-3952), or emailed (clerk@wrangell.com), provided such communication is received by the OWNER prior to the bid closing time. Modifications should not reveal the bid price but should provide the addition or subtraction, or other modification, so that the final prices or terms will not be known by the Owner until the sealed bid is opened. Alternatively, bid modifications may be emailed to the attention of Kim Lane at <u>clerk@wrangell.com</u>.

- 5. Addenda. Each bid shall include specific acknowledgment in the space provided of receipt of all addenda issued during the bidding period. Failure to so acknowledge may result in the Bid being rejected as not responsive.
- 6. Any questions concerning the existing conditions and/or the contract conditions contained herein shall be submitted, in writing, prior to the date for Bid submittal. Questions regarding

this solicitation shall be directed to Harbor Master, Greg Meissner, 907-305-0719.

7. Receipt of Bids – Lump sum bids will be received at the office of the Borough Clerk, 205 Brueger Street, P.O. Box 531, Wrangell, Alaska 99929 until 2:00 p.m. on January 6, 2016.

<u>Standards for Acceptance of Bids.</u> The OWNER reserves the right to reject any or all bids, to waive any informality or irregularity in the bid. The award of the Contract, if made by the OWNER, will be made to the qualified and responsible. The City and Borough of Wrangell reserves the right to modify the contract after its award.

<u>Prices to be Firm.</u> Participating Contractors warrant that prices, terms, and conditions included in their Bids will be firm for acceptance for a period of thirty (30) days from the quote submission deadline date.

<u>Award of Contract.</u> Award of a contract shall be on the basis of the said work and will be made to the lowest responsive Bidder.

<u>Execution of Agreement.</u> All bids greater than \$25,000 require Wrangell Borough Assembly approval. After such approval, the Bidder to whom the award is made shall execute a written Agreement with the Owner on the Agreement form included herein and shall secure all insurance and furnish all certificates and bonds required by these contract documents. Failure or refusal to enter into the Agreement shall be just cause for annulment of the award, and the Owner may award the contract to the second lowest responsive and responsible Bidder.

Liquidated Damages. Provisions for liquidated damages are set forth in the Agreement included herein.

General Conditions.

- 1. Specifications: Any obvious error or omission in specifications shall not be to the benefit of the Bidder but shall put the Bidder on notice to inquire of or identify the same from the City and Borough of Wrangell. Whenever mention is made of any article, material, or workmanship to be in accordance with laws, ordinances, codes, underwriter's codes, A.S.T.M. regulations or similar expressions, the requirements of these laws, ordinances, etc., shall be construed to be the minimum requirements of these specifications.
- 2. Completion of Work: The Contractor understands and agrees that Time is of the Essence in performing the work. The work shall be complete by March 30, 2016.

- 3. Indemnification: To the fullest extent permitted by law, Contractor shall indemnify, defend, and hold harmless the Owner and their employees and agents again and from all claims and liability arising under, by reason of or accidentally to the Contract or any performance of the work, but not from sole negligence or willful misconduct of the Owner. Such indemnification shall include, but not be limited to liability of claims resulting directly or indirectly from:
 - a. Contractor's negligence and carelessness of Contractor, its employees or agents in the performance of the work or from improper materials or implements used in its construction or on account of their acts or omissions.
 - b. Bodily injury, occupational sickness, or death of Contractor, its employees or agents.
 - c. The Contractor's, its employees' or its agents' violation of any law, ordinance, or regulation.
 - d. The breach of obligations or breach of warranties, whether expressed or implied, made to the Owner by the Contractor or its agents.
 - e. Willful or criminal misconduct of the Contractor, its employees or agents.
- 4. Change of Contract Price: The Contract Price may only be changed by a Change Order. Any claim for an increase in the Contract Price shall be based on written notice delivered by the CONTRACTOR promptly (but in no event later than 7 days) after the start of the occurrence or the event giving rise to the claim and stating the general nature of the claim. Notice of the amount of the claim with supporting data shall be delivered within 14 days after such occurrence and shall be accompanied by the CONTRACTOR's written statement that the amount claimed covers all known amounts (direct, indirect, and consequential) to which the CONTRACTOR is entitled as a result of said occurrence or event.
- 5. Payments to Contractor:
 - a. Payment for furnishing and installing the aluminum gangway as specified herein shall be made at the lump sum price for Bid Item Gangway. This payment shall include all labor, materials and equipment necessary to design, furnish, fabricate, and transport gangway and all incidentals necessary for a complete installation at the project site. The Work also includes Engineering submittals, shop drawings, production quality control, and acceptance testing.
 - b. The Contractor shall submit progress payments to the Owner for review, by submitting an Application for Payment filled out and signed by the Contractor covering the work completed as of the date of the Application and accompanied by such supporting documentation as is required by the Contract Documents.
- 6. Compliance with Specifications: The terms and conditions of this Invitation to Bid, General Conditions, Special Conditions, Instructions to Bidder, Specifications, Bid, Addenda, Agreement, and/or any other pertinent documents are incorporated into the contract by reference as set forth herein.
- 7. Work Standards: All work conducted must be in accordance with local, state, and federal regulations including, but not applicable to O.S.H.A. requirements.

ALUMINUM GANGWAY SPECIFICATIONS

PART 1 - GENERAL

1.1 SUMMARY

A. These Specifications include the fabrication and supply of one 80' (l) x 6' (w) aluminum gangway and all hardware necessary for its installation at the Wrangell City Dock project site in Wrangell, Alaska.

1.2 DESIGN

- A. Applicable Codes and Design Criteria:
 - 1. International Building Code (IBC)
 - 2. AWS D1.1 1990: Structural Welding Code, Steel
 - 3. AWS D1.1 1990: Structural Welding Code, Aluminum
 - 4. ASTM Specifications
 - 5. The Aluminum Association: Specifications for Aluminum Structures
 - 6. ADA Accessible Guidelines for Buildings and Facilities
- B. Loads: Design gangway to resist the combination of dead load, live load, supported utilities, and lateral loads as listed below. Load combinations shall be in accordance with the IBC. Snow load may be ignored.
 - 1. Dead Load: Equal to the weight of the gangway structure complete.
 - 2. Live Load: 100 psf with a maximum of L/240 deflection.
 - 3. Concentrated Load: 400 pounds applied to any 12" x 12" area.
 - 4. Fire Water Load: 11 pounds per linear foot full length of gangway.
 - 5. Electrical Load: 2.5 pounds per linear foot on lower half of gangway.
 - 6. Wind Load: 110 mph basic wind speed for Occupancy Category II Buildings and Other Structures per ASCE 7-10.
 - 7. Handrails: 50 pounds per lineal foot lateral load applied to the full length of the gangway on both sides simultaneously.
- C. The manufacturer shall design, engineer, fabricate, and deliver the aluminum gangway, ramp, and railing in accordance with the requirements specified herein.
- D. The deck and structural components shall be designed with a minimum factor of safety on working stresses as specified in the Aluminum Association's "Specification for Aluminum Structures" for bridge-type structures. For non-aluminum components, similar safety factors shall apply.

- E. The deck and structural components of the aluminum gangways and ramps shall be designed for the loads indicated herein. The maximum deflection under load shall not exceed 1/360 of the length of the gangway.
- F. Design gangway to meet ADA requirements with a minimum length of 80' and a minimum width of 6' (outside rail to outside rail), as required to connect to existing shore hinge (shore hinge dimensions shown on page 11 herein). Include a minimum 16" width cleated tread walking area.
- G. Design gangway so there are no overhead truss members.
- H. Design gangway with four lifting pad eyes for picking.

1.3 SUBMITTALS

- A. Submit shop drawings detailing the fabrication and erection of the aluminum gangway. Include plans, elevations, sections, and details of all structural components, weld locations, welding specifications, certifications, and all other pertinent details related to fabrications and their connections. Show anchorage and accessory items. Provide templates for anchors and bolts specified for installation under other specification sections.
- B. Detailed design calculations for the aluminum gangway, ramp, railing, and the structural components prepared, signed, and sealed by a professional engineer licensed in the State of Alaska.
- C. Qualification data for firms specified in the "Quality Assurance" section to demonstrate their capabilities and experience. Include a list of completed projects with project name, addresses, names of engineers, and other information specified.

1.4 QUALITY ASSURANCE

- A. Fabricator Qualifications: Firm experienced in producing aluminum gangways similar to that indicated for this Work with a record of successful performance and with sufficient production capacity to produce required units without delaying the Work.
- B. Qualifications of Fabricator and Welders: The fabricator of the metals specified in this section shall be experienced in the fabrication and working of metals, including cutting, bending, forming, and finishing. Welders shall be currently certified in accordance with AWS D1.2-2008 for structural aluminum welding, submit qualification test reports, and bearing witness certification of independent laboratory and inspection service approved by the Engineer. If welder has not been engaged in welding process for three or more months, requalify before permitting them to do structural welding work.

PART 2 - PRODUCTS

2.1 FERROUS METAL / STEEL

- A. Steel Plates, Shapes, and Bars: ASTM A-36.
- B. Steel Pipe: ASTM A-53, standard weight, unless otherwise indicated or required by structural loads.
- C. All mild steel components shall be ASTM A36 and hot-dipped galvanized in accordance with ASTM A123 and A153. Welding through galvanizing shall not be allowed. Should any welding be required after galvanizing, the galvanized surface shall be removed to the base metal before welding occurs. Repair to the galvanizing shall be in accordance with these specifications and with ASTM A153.
- D. Any damaged galvanizing shall be repaired according to ASTM A153 using hot stick methods. No spray galvanizing shall be allowed.

2.2 ALUMINUM

- A. All structural aluminum used in the manufacture of the gangway shall be Aluminum Alloy 6061-T6 per ASTM B209, B221, B308, including all tubes, plates, angles, and pipe. Handrail shall be 6061-T6 aluminum pipe and tube per ASTM B429.
- B. Aluminum-Alloy Rolled Tread Plate: ASTM B-632 Pattern 1, alloy 6061-T6.

2.3 FASTENERS

- A. General: Provide stainless steel fasteners between hot dipped galvanized components. Fasteners between hot dipped galvanized steel components and aluminum components may be hot dipped galvanized or stainless steel. Select fasteners for the type, grade, and class required. Place U.V. resistant vinyl washers between dissimilar metals.
 - Material: Carbon steel components zinc-plated to comply with ASTM B-633, Class Fe/Zn 5.
 - 2. Material: Group 1 alloy 304 or 316 stainless-steel bolts and nuts complying with ASTM F-593 and ASTM F-594.
- **B.** Bolts and Nuts: Regular hexagon-head bolts, ASTM A-307, Grade A (ASTM F 568, Property Class 4.6); with ASTM A-563 hex nuts and, where indicated, flat washers.
- C. Machine Screws: ANSIB-18.6.3.

City and Borough of Wrangell City Dock Gangway Procurement Page 6 of 15

- D. Plain Washers: Round, carbon steel, ANSIB-18.22.1.
- E. Lock Washers: Helical, spring type, carbon steel, ANSI B-18.21.1.
- F. Welding Filler Wire: All welds shall be made with metal alloy, which will produce a weld compatible in strength and corrosion resistance with the base metal in accordance with AWS 01.2.

2.4 WELDS

- A. All welds shall be made with filler metal alloy which produces a weld compatible with the base structural metal in corrosion resistance. Reference AWS D1.2 1990.
- B. Welder certification is required based on AWS D1.2 (1992).
- C. All welds must be cleaned and all weld splatter removed. Welds must meet visual examination criteria of AWS D1.2.

2.5 POLYETHYLENE

A. All rollers, bushings, wear strips, dielectric isolators and other non-metallic parts used in the fabrication of the gangway shall be Ultra High Molecular Weight Polyethylene (UHMW-PE). Should these parts be exposed to sunlight, they shall be black in color and ultraviolet stabilized.

3.1 FABRICATION, GENERAL

- A. Form metal fabrications from materials of size, thickness, and shapes indicated, but not less than that needed to comply with performance requirements indicated. Work to dimensions indicated or accepted on plans, using proven details of fabrication and support. Use type of materials specified for various components of each metal fabrication.
- B. Form exposed work true to line and level with accurate angles and surfaces and straight sharp edges.
- C. Allow for thermal movement resulting from the following maximum change (50° F) in ambient temperature in the design, fabrication, and installation of installed metal assemblies to prevent buckling, opening up of joints, and overstressing of welds and fasteners. Base design calculations on actual surface temperatures of metals due to both solar heat gain and nighttime sky heat loss.

City and Borough of Wrangell City Dock Gangway Procurement Page 7 of 15

- D. Shear and punch metals cleanly and accurately. Remove burrs.
- E. Ease exposed edges to a radius of approximately 1/32 inch (1 mm), unless otherwise indicated. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing work.
- F. Remove sharp or rough areas on exposed traffic surfaces.
- G. Weld corners and seams continuously to comply with the following:
 - 1. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners wherever possible. Locate joints where least conspicuous.
 - 2. Provide for anchorage of type indicated; coordinate with supporting structure. Fabricate and space anchoring devices to secure metal fabrications rigidly in place and to support indicated loads.
- H. Shop Assembly: Preassemble items in shop to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Use connections that maintain structural value of joined pieces. Clearly mark units for reassembly and coordinated installation.
- I. Cut, reinforce, drill, and tap metal fabrications as indicated to receive finish hardware, screws, and similar items.
- J. Fabricate joints in a manner to exclude water, or provide weep holes where water may accumulate.
- K. All aluminum components shall be electrically isolated from all steel components to inhibit aluminum corrosion.

3.2 FRAME DESIGN

A. Provide aluminum hollow box-beam frame or truss-type frame as required to accommodate spans, loading conditions, deflection limits, and gangway end conditions.

3.3 DECKING

A. The gangway and ramp walking surfaces shall be made of Fibergrate Composite Structures' FRP Dock Grating with molded 1" deep grating with a ³/₄" x 4" rectangular mesh surface, providing a 62% open surface area.

B. The deck supports shall be fabricated to facilitate a deck strength of 100 psf with a maximum deflection of one quarter inch.

3.4 HINGE PLATE / SHORE ATTACHMENT

- A. The hinge plate attachment for the gangway shall be designed, fabricated and installed to carry the full dead load plus the live load of the gangway, PLUS the safety factor specified in Specifications for Aluminum Structures, Bridges Type Structures. This attachment must allow full and free operation and movement of the gangway through low and high elevations.
- B. Hinge plate assemblies shall be fabricated from steel conforming to the requirements of ASTM A-36 and shall be hot-dipped galvanized in accordance with ASTM A-123 and A-153.
- C. Existing Shore Hinge Connection Drawing is provided on Page 11 of 15 herein.

3.5 TRANSITION PLATE / FLOAT ATTACHMENT

- A. The transition plate attachment for the gangway shall be designed, fabricated and installed to carry the full dead load plus the live load of the gangway, PLUS the safety factor specified in Specifications for Aluminum Structures, Bridges Type Structures.
- B. Transition plate shall be designed to slide on the landing and shall be the full width of the deck.
- C. Transition plate shall extend a minimum of one and half feet out from the gangway end and shall be of sufficient length to accommodate sliding of the gangway due to tidal action.
- D. Transition plate shall meet ADA requirements and shall have a slope of 1/12 maximum.
- E. Transition plate shall be made of a slip-resistant decking material with the bottom nose fitted with UHMW-PE that has been profiled to create a rise no more than 1/4 inch.

3.6 ROLLER AND ROLLER GUIDE TRACKS

- A. Provide two minimum 4-inch diameter by 2 1/2-inch solid UHMW rollers at movable end of gangway. Rollers shall have a 1-inch diameter solid stainless steel axle.
- B. Roller tracks shall be provided ready to install to the float surface. These glide tracks shall be long enough to allow for full longitudinal movement through all water elevation changes. The guide tracks shall resist any lateral movement of gangway at the landing.

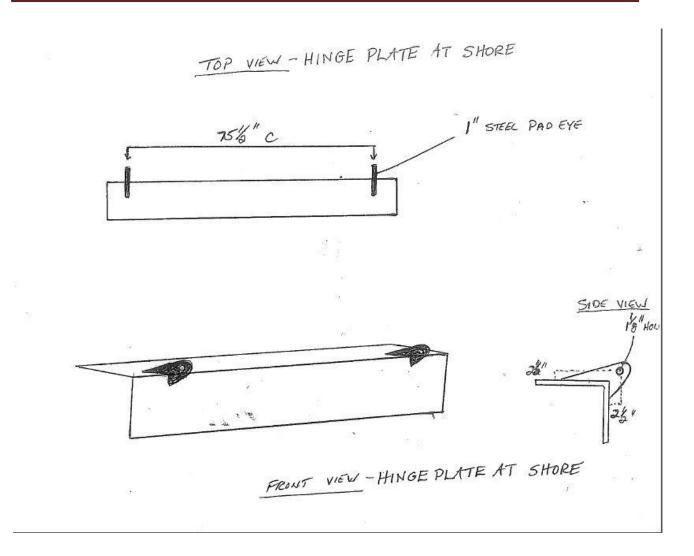
3.7 HANDRAILS AND GUARDRAILS

- A. Gangways and ramps shall be equipped with continuous handrails and guardrails on both sides of the walking surface.
- B. Handrails and guardrails shall be fabricated of aluminum sections, aluminum pipe or aluminum tubing.
- C. Guardrail posts shall be welded or similarly permanently attached to the exterior face of the support beams.
- D. Mid rails shall be 1" x 1" angle welded to the inside and located half way between the deck surface and the top of the side rail. The toe rail shall be 4" high, meeting OSHA standards.
- E. Side rails shall be made of 1" x 1" aluminum angle with 4" maximum opening.
- F. Architectural aluminum mesh shall be installed on both sides of the gangway, meeting code requirements.

3.8 FINISHES, GENERAL

- A. The structure shall be mill finish as factory aluminum.
- B. The completed gangway shall have a manufacturer's stainless steel or brass label plate attached in a conspicuous location. The following shall be etched in letters not less than ¹/₄" high, filled with black enamel: Manufacturer's name, date of fabrication, overall length (not including transition plate), overall weight (including transition plate).

END OF SPECIFICATIONS



BID SCHEDULE

CITY DOCK GANGWAY PROCUREMENT

- 1. The undersigned Bidder offers and agrees, if this Bid is accepted, to enter into an Agreement with the Owner to perform the work as described in the contract documents entitled *Invitation to Bid, City and Borough of Wrangell, City Dock Gangway Procurement.*
- 2. Bidder accepts all of the terms and conditions of the contract documents, including without limitations, those in the Invitation to Bid.
- 3. The Bid will remain open for <u>30</u> days, as stipulated in the Invitation to Bid.
- 4. The Bidder has familiarized itself with the nature and extent of the contract documents, the work, the site, and locality where the work is to be performed, the legal requirements, and the conditions affecting cost and performance of the work.
- 5. The Bidder agrees to complete the work required under the contract documents within the time stipulated and accepts payment in full based on the contract price named in the Bid.
- 6. Bidder has examined the contract documents in full, including the following Addenda, receipt of which is hereby acknowledged by the undersigned:

Addenda No. Date Issued

7. The Bidder has read this Bid and agrees to the conditions as stated herein by providing their signature in the space provided below.

<u>Item</u>	Description of Work	<u>Amount</u>						
1 (One)	80' x 6' Aluminum Gangway, FOB, Port of Seattle WA	\$						
Bidder's Name:								
Bidder's Repres	sentative's Signature:							
Bidder's Addre	ss:							
Bidder's Teleph	none / Fax Numbers:							
Bidder's Email	Address:							
Date:								
Is the Bidder's	Business License Attached? Yes No							

City and Borough of Wrangell City Dock Gangway Procurement Page 12 of 15

AGREEMENT

CITY DOCK GANGWAY PROCUREMENT

THIS AGREEMENT made and entered into this _____ day of, 2016, by and between the CITY and BOROUGH OF WRANGELL, P.O. Box 531, Wrangell, Alaska 99929, hereinafter called "OWNER," and _____, licensed and qualified to do business within the State of Alaska, hereinafter called "CONTRACTOR."

NOW, THEREFORE, for and in consideration of the terms, covenants, conditions, and provisions contained herein, and attached and incorporated herein and made a part hereof, the parties hereto agree as follows:

Section 1: Scope of Work

The CONTRACTOR shall perform and provide, within the time stipulated, the Contract as herein defined, of which this Agreement is a component part, and everything required to be performed including the providing of all work, labor, services, materials, utility, transportation and other acts necessary to perform the Contract in a workmanlike manner (hereinafter referred to as "Construction"), in connection with:

City & Borough of Wrangell CITY DOCK GANGWAY PROCUREMENT

and in strict conformity with the Contract Documents, including any and all Addenda issued by the OWNER, and with all of the other Contract Documents enumerated in Section 4 hereof, hereinafter collectively referred to as the "Contract."

Section 2: Construction Time

(a) The CONTRACTOR agrees to complete all work and construction called for and as defined in the General Conditions, Completion of Work, by April 28, 2016, to the satisfaction of the OWNER.

Section 3: Contract Amount

As and for full payment, and in consideration of the timely and proper performance of all construction and work called for by the Contract, as defined herein, and performance of all the terms and conditions thereof, the OWNER shall pay the CONTRACTOR in currency of the United States, as follows:

If the Bid calls for single lump sum price(s), the OWNER shall pay to the CONTRACTOR

City and Borough of Wrangell City Dock Gangway Procurement Page 13 of 15

a	Total	Contract	Amount	of:	\$_	(In Words:		
)	

It is further agreed that the CONTRACTOR shall start all work and construction within ten (10) days after delivery of the OWNER'S Notice to Proceed, unless otherwise specified in such Notice to Proceed, and shall complete all work and construction in accordance with the construction schedule and time for completion as provided in the Contract Documents.

Section 4: Payment Procedures

The CONTRACTOR shall submit Applications for Payment upon 100% completion of the work.

Section 5: Liquidated Damages

OWNER and CONTRACTOR recognize that time is of the essence in the completion of this contract and that liquidated damages for delay shall be at the rate of \$250 per calendar day.

Section 6: Contract Documents

The Contract, and the component parts of this Contract, entered into by the acceptance of the CONTRACTOR'S Bid and the signing of this Agreement, consist of the following documents, all of which are component parts of said Contract and are as fully a part thereof as if herein set forth in full, and if not attached, as if attached hereto:

- A. This Agreement;
- B. Invitation to Bid;
- C. Addenda
- D. Bid as accepted;
- E. Notice of Award;
- F. Notice to Proceed or Purchase Order
- G. Written amendments, including Change Orders, to this Agreement signed by both parties and entered into after execution of this Agreement.

IN WITNESS WHEREOF, the parties hereto have executed this agreement the day and year first above written.

OWNER:

By:_____

Jeff Jabusch, Borough Manager

ATTEST:

Date

Kimberly Lane, Borough Clerk

Date

CONTRACTOR:

Name of Contractor

By: ______ Signature of authorized officer

Title of person signing

Date

City and Borough of Wrangell City Dock Gangway Procurement Page 15 of 15