



Invitation to Bid (ITB)
No. 77781

Outdoor Service Hoists 1.2 tonnes Lift Capacity

Issued by
Port of Tacoma
One Sitcum Plaza
P.O. Box 1837
Tacoma, WA 98401-1837

The Port reserves the right to modify this schedule at the Port's discretion. Notification of changes in the response due date would be posted on the Port website or as otherwise stated herein.

Solicitation Schedule	Date
ITB Issued	05/09/2017
Deadline for Questions	05/11/2017
Bid Due Date/Time	05/15/2017 @2:00PM PST
ITB Information	
ITB Coordinator	Sharon Rothwell
E-mail Address	procurement@portoftacoma.com
Phone	(253) 592-6758

Please submit all correspondence via e-mail directly to the ITB coordinator
include the **ITB # 77781** in the subject line.

1. PURPOSE

In this solicitation the Port of Tacoma on behalf of the Northwest Seaport Alliance (NWSA) seeks to obtain four Outdoor Service Hoist 1.2 tonnes lift capacity as detailed in the specification matrix of this ITB. These Hoists will be installed on and support maintenance activities on new ship-to-shore dockside container cranes at the Port.

To learn more about the Port of Tacoma, visit www.portoftacoma.com.

Single Award

With this solicitation, the Port intends to award one contract and does not anticipate multiple awards. Regardless, the Port reserves the right to make multiple or partial awards.

2. SOLICITATION OBJECTIVES

The Port expects to achieve these outcomes through this solicitation:

- To obtain quality outdoor service hoists which meet or exceed specifications;
- Achieve ready access to warranty support, technical assistance and repair/spare parts;
- Using environmentally preferable products;
- Get the best value; and
- Accurate and timely invoicing.

3. Specifications

See Attachment C for specifications on the Outdoor Service Hoist.

Desired Delivery date for the Outdoor Service Hoist is 27 weeks following order placement, however not later than 24 January 2018.

Delivery Terms

The components needed for the Equipment shall be delivered to the Site in *Port of Tacoma, Tacoma Washington, USA*.

Delivery time is Units 4 units handed over in 27 weeks at the Buyer site providing the order is effective. Delivery time is counted from the signing of the Purchase agreement. Seller will provide the Buyer with the date the order is effective. The Seller is responsible for transportation on the Site and liable for all related costs.

The delivery time shall be extended if the reason of the delay is attributable to the Buyer.

Manuals, inspection certificates and test certificates shall be delivered with the Equipment.

Seller shall not be required to install service hoists on Port's new dockside container cranes. Installations shall be by company and/or personnel authorized by Port of Tacoma. Seller shall provide guidance and direction should installation per Seller's instructions not result in correct functionality

The Equipment shall be regarded as Accepted when it has been completed in accordance with this Agreement, except in minor respects that do not affect the use of the Equipment for its intended purpose, has passed Acceptance Test Program and the Acceptance Certificate has been issued by the Buyer ("the Acceptance"). The Buyer shall within 2 days after the final tests issue the Acceptance Certificate with the original acceptance date or reject it by giving his reasons and specifying the work required to be done by the Seller to enable the Acceptance Certificate to be issued.

If the Buyer fails either to issue the Acceptance Certificate or to reject it within the period of 90 calendar days, he shall be deemed to have issued the Acceptance Certificate on the last day of that period.

The Buyer shall not use any part of the Equipment in commercial operation unless an Acceptance Certificate has been issued in respect thereof. If nevertheless the Buyer uses any part of the Equipment, that part which is used

shall be deemed to have been accepted at the date of such use. The Buyer shall on request of the Seller issue an Acceptance Certificate accordingly.

Repair Facilities

Bidder shall provide by attached letter a list of authorized factory service and repair facilities, which will honor the warranty of items on contract. The list will include the facility name(s), address, telephone number, and contact person. Evidence showing qualification of each facility to perform maintenance must be included:

- Names of factory trained personnel at each facility.
- Nature and extent of factory authorized training received and years of qualifying service on the equipment.

Bids submitted from manufacturers that require service through dealer outlets must include a letter signed by each dealer certifying full understanding and compliance with bid and servicing requirements. See Attachment C line 97.

Warranty Services and Performance:

Warranty to begin upon final acceptance. Service hoist warranty periods (starting from final acceptance date at Port of Tacoma) shall not be less than:

- First 12 months coverage for parts and labor; and
- For the second 12 months coverage for parts.

The Seller shall warranty the satisfactory operation of all materials and equipment installed or furnished under this contract, and shall repair or replace to the satisfaction of the Buyer in accordance with the above parts and labor schedules any defective materials, equipment or workmanship which may be discovered within two (2) years from the date of final Acceptance by the Buyer. In addition, the Seller shall warrant the components for the items set forth in the Specifications.

In the event that any piece of equipment installed under this contract carries, a manufacturer's warranty period longer than two (2) years as specified, said warranty shall be extended to the Port of Tacoma. Any such warranty, which exceeds the two years period, shall be stated in writing.

Training on the outdoor service hoist

Equipment Supplier shall provide on-site instructor at no cost, to conduct both operator and maintenance training. Such training shall proceed following installation of service hoists on the container cranes. The training session(s) shall include, but not be limited to, the below listed items.

1. Operator training will familiarize personnel with the controls, safety features, operating characteristics and operator checks and services.
2. Mechanic training shall familiarize service and repair technicians with preventive maintenance checks and services, general service, safety precautions, routine servicing, repairs, adjustments, and any unique requirements associated with the entire unit.

Training shall be coordinated with the Port equipment foreman. We estimate 5-10 people will require training. Training is anticipated to occur at an agreed upon time between March and April 2018.

Right to Cancel

The Port reserves the right to cancel or reissue all or part of this Solicitation at any time, as allowed by law, without obligation or liability.

Expansion Clause

Expansion of scope of this contract may occur when in the opinion of the Port Contracts and Purchasing Department the circumstances meet these criteria:

- (a) It could not be separately bid;
- (b) The change is for a reasonable purpose;
- (c) The change was not reasonably known to either the Port or Sellers at time of bid or else was mentioned as a possibility in the bid (such as a change in environmental regulation or other law);
- (d) The change is not significant enough to reasonably regard it as an independent body of work;
- (e) The change could not have attracted a different field of competition; and
- (f) And the change does not vary the essential identity or main purpose of the contract.

Agreement to such a contract modification must be mutual. Only the Port Contracts and Purchasing department has the authority make such agreements on behalf of the Port. No other Port department has the authority to make

such written notices. Written formal notices will document all expansions. The Port Purchasing shall make this determination, and may make exceptions for immaterial changes, emergency or sole source conditions, or for other situations as required in the opinion of the Port purchasing manager.

Note that certain changes are not considered an expansion of scope, including an increase in quantities ordered, exercising options and alternates in the bid, or ordering of work originally identified within the originating solicitation. Approval of such changes will be by written order issued by the ITB Coordinator.

Payment Terms

Payment shall be made per the following milestone completions:

30% of the total order within ten (10) days after the order;
30% of the order following receipt and approval of engineering documentation;
30% prior to shipping; and
10% to be paid within ten (10) days of final acceptance of the hoists (which includes receipt of manuals and performance of training).

RETENTION OF TITLE AND TRANSFER OF RISK

The Equipment shall remain the property of the Seller until the Delivery to the Port of Tacoma. The Buyer shall give the Seller every type of assistance in taking any measures required to protect the Seller's right of property in the Equipment

The risk of damage to and loss of the Equipment shall transfer to the Buyer at Delivery.

The Seller shall, at its own cost, keep the Equipment, its machinery and accessories, fully insured until Delivery. The Buyer is responsible to keep the Equipment insured after the Delivery.

If the Equipment or any part thereof should be damaged from any cause whatsoever prior to Delivery to the Buyer, the Seller shall recover, repair or replace such damage.

Identification

All invoices, correspondence, and other written materials associated with this Contract shall be identified by the Contract number or the applicable Purchaser's order number.

Invoicing

Invoices are to detail the milestone completions and must identify the Contract number or Purchase Order number on the invoice. Submit invoices electronically to cpinvoices@portoftacoma.com.

Price Protection

For the term of the Contract, pricing for all Supply will be no greater than the prices quoted in the Seller's Bid. If, however, during any term of the Contract lower prices and rates become effective for like quantities of Supply under similar terms and conditions, through reduction in Seller's list prices, promotional discounts, or other circumstances, Purchasers must be given immediate benefit of such lower prices and rates.

No Additional Charges

Unless otherwise specified in the Solicitation, no additional charges by the Seller will be allowed including, but not limited to: handling charges such as packing, wrapping, bags, containers, insurances, shipping; or the processing fees associated with credit cards. Notwithstanding the foregoing, if market conditions, laws, regulations or other unforeseen factors dictate, at the Contract Administrators sole discretion, additional charges may be allowed.

Subcontracts and Assignment

Seller shall not Subcontract, assign, or otherwise transfer its obligations under this Contract without the prior written consent of the Contract Administrator. Seller shall provide a minimum of thirty (30) calendar days advance notification of intent to Subcontract, assign, or otherwise transfer its obligations under this Contract. Violation of this condition may be a material breach establishing grounds for Contract termination. The Seller shall be responsible to ensure that all requirements of the Contract shall flow down to all Subcontractors. The existence of a Subcontract shall not operate to release or reduce the liability of Seller to the Port of Tacoma for any breach in the performance of the Seller's duties.

Specifications by Reference

Any material specified by reference to the number, symbol or title of a specific standard such as a commercial standard, federal specifications, a trade association standard, or other similar standard, will comply with the requirements in the latest revision thereof, and any amendment or supplement thereof in effect on the date of the ITB, except as limited to type class or grade, or modified in the specification, shall have full force and effect as though printed in specifications.

Quality of Labor and Material

The entire work shall be done in every in a good substantial and workman like manner, fully up to the standards of first class work of this manner.

Substitutions

The product, equipment, materials, or methods described or noted within the bidding documents are to establish a standard of quality, function, appearance, and dimension, and shall be deemed to be followed by the words "or equal". A proposed substitute shall have approved equal attributes and the Port shall be the sole judge of the equality of the product, equipment, materials, or methods offered in the substitution.

Time

The parties expressly agree that time is of the essence of this contract, and that any unexcused delay in completing work will cause inconvenience and expense to the Port, its lessees, and other users of its facilities.

Extension of Time

Any extension of delivery and completion time under this contract must have written approval of the Port of Tacoma. If delay in completion of the work occurs caused by acts of God, of the public enemy, of the Port of Tacoma, of another to perform a contract with the owner, or caused by fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes or weather, the sole remedy to the Seller will be an equitable extension of time allowed for completion.

Seller Authority and Infringement

Seller has authorization to sell under this Contract, only those services and supply stated and allowed for by this Contract. Seller shall not represent to any Purchasers they have the Contract authority to sell any other materials, supplies, services, and/or equipment. Further, Seller may not intentionally infringe on other established Port Contracts.

6. INSTRUCTIONS, INFORMATION, AND COMMUNICATION

Bid Procedures and Process

This chapter details Port procedures for directing the ITB process. The Port reserves the right in its sole discretion to reject the Bid of any Seller that fails to comply with any procedures outlined in this chapter.

Communications concerning this acquisition shall be directed to the ITB Coordinator shown below:

Sharon Rothwell
(253) 592-6758
srothwell@portoftacoma.com

Unless authorized by the ITB Coordinator, no other Port official or Port employee is empowered to speak for the Port regarding this solicitation. Any Seller seeking to obtain information, clarification, or interpretations from any other Port official or Port employee other than the ITB Coordinator is advised that such material is used at the Seller's own risk. The Port will not be bound by any such information, clarification, or interpretation.

Following the bid deadline, Sellers shall continue to direct communications to only the Port ITB Coordinator. The ITB Coordinator will send out information to responding companies as decisions are concluded.

Questions

Sellers are encouraged to submit questions they may have regarding this procurement. Getting answers during the procurement process allows Sellers to make a more informed bid offer. Questions are to be submitted to the ITB Coordinator by the date and time on page 1, to allow sufficient time for the Port ITB Coordinator to consider the question before the bids are due. The Port prefers such questions to be through e-mail directed to the Port ITB Coordinator e-mail address. Failure to request clarification of any inadequacy, omission, or conflict will not relieve the Seller of any responsibilities under this Bid or any subsequent contract. The Seller will assure that they received responses to the questions if any are issued.

Changes to the ITB/Addenda

A change may be made by the Port if, in the sole judgment of the Port, the change will not compromise the Port's objectives in this acquisition. A change to this ITB will be made by formal written addendum issued by the Port's ITB Coordinator. Addenda issued by the Port shall become part of this ITB specification and will be included as part of the final Contract. The interested Seller will assure that they have received Addenda.

Receiving Addenda and/or Question and Answers

The ITB Coordinator will try to provide you notice, by posting addendums have been on the Port website. Sellers are encouraged to register as Plan Holders for the specific solicitation you are bidding on so automatic notification are sent out any time changes are made. Notwithstanding efforts by the Port, it remains the obligation and responsibility of the Seller to learn of any addendums, responses, or notices issued by the Port. Such efforts by the Port to provide notice or to make it available on the website do not relieve the Seller from the sole obligation for learning of such material.

Some third-party services independently post Port of Tacoma bids on their websites. The Port does not guarantee that such services have accurately provided Sellers with all information particularly Addendums or changes to bid date/time.

All Bids sent to the Port shall be compliant to all Addendums, with or without specific confirmation from the Seller that the Addendum was received and incorporated. However, the ITB Coordinator can reject the Bid if it does not reasonably appear to have incorporated the Addendum. The ITB Coordinator could decide that the Seller incorporated the Addendum information, or could determine that the Seller failed to incorporate the Addendum changes and that the changes were material so the ITB Coordinator must reject the Offer, or the ITB Coordinator may determine that the Seller failed to incorporate the Addendum changes but that the changes were not material and therefore the Bid may continue to be accepted by the ITB Coordinator.

Dealer Authorization

1. Sellers, if other than the manufacturer, shall provide a current, dated, and signed authorization from the manufacturer that the Seller is an authorized distributor, dealer or service representative and may sell the manufacturer's products. Failure to comply with this requirement may cause bid rejection.
2. The Seller, if the manufacturer, shall provide a list of authorized dealers for goods ordered (this is separate from authorized repair facilities however a facility could be both). These dealers should be company-owned distributors, franchised dealers or retail outlets within the 60 mile radius of Tacoma, WA.

Submittal Requirements

This section details Port procedures for bid submittal.

1. The format should follow closely that requested in this ITB.
2. Sellers have full responsibility to ensure the response arrives at the Port within the deadline. Late bids will be rejected.

Electronic Submittal

The bid number and title should appear in the subject line of the e-mail. The electronic submittal is to be e-mailed to the procurement@portoftacoma.com, on or before the deadline (ITB Schedule, on the cover page or as otherwise amended). Any risks associated are borne by the Seller. The Port e-mail system will allow documents up to, but no larger than, 10 Megabytes. If the Seller also submits a hard-copy, the Port will determine which form takes precedence if discrepancies occurs.

Bid Opening

The Bid shall be publicly opened by the Port at the date and time specified, at the Port Purchasing office.

Bid and Price Specifications

Seller shall provide their Offer on forms provided by the Port, indicating unit prices for each item, if applicable, attaching additional pages if needed. In the case of difference between the unit price and the extended price, the Port shall use the unit price. The Port may correct the extended price accordingly. Unless specified otherwise on the Offer Form, Seller shall quote prices DDP (Delivered-Duty-Paid), with freight prepaid and allowed. All prices are to be in US Dollars.

Do Not Submit Extra Comments, Explanations, Information or Changes

The Port will reject bids that the ITB Coordinator finds to be taking material exception to the Port specifications and Port contract. Therefore, be careful that you do not add information or explanations on your Offer form. Do not take exceptions, do not offer alternatives (unless the Port specifically requests), and do not mark the Offer with changes to specifications or the contract. Do not attach your own boilerplate. Even adding an explanation about your pricing could cause rejection of your bid. This decision will be made in the sole opinion of the ITB Coordinator. If the Offer Form doesn't seem to adequately address your concern or clarification, call the ITB Coordinator for direction.

Partial and Multiple Awards

Unless stated to the contrary in the Solicitation, the Port reserves the right to name a partial and/or multiple awards, in the best interest of the Port. Sellers are to prepare pricing and Offers given the Port's intention to utilize the right to a partial or multiple award, in the best interest of the Port. Further, the Port may eliminate an individual line item when calculating award, to best meet the needs of the Port, if a particular line item is not routinely available or is a cost that exceeds the Port funds.

Prompt Payment Discount

On the Offer form or submittal, the Seller may state a prompt payment discount term, if the Seller offers one to the Port. A prompt payment discount term of ten (10) or more days will be considered for bid tabulation.

Interlocal Purchasing Agreements

This is for information only and consent of the Seller, and will not be used to determine award. RCW 39.34 allows cooperative purchasing between public agencies, nonprofits and other political subdivisions. Public agencies that file an Intergovernmental Cooperative Purchasing Agreement with the Port of Tacoma may purchase from Contracts established by the Port. The Seller agrees to sell additional items at the bid prices, terms and conditions, to other eligible governmental agencies with such agreements with the Port. The Port of Tacoma accepts no responsibility for the payment of the purchase price by other governmental agencies. Should the Seller require additional pricing for such purchases, the Seller is to name such additional pricing upon Offer.

Contract Terms and Conditions

Sellers are to carefully review all specifications, requirements, Terms and Conditions (see Attachment #B), and insurance requirements. Submittal of a response is agreement to all Terms and Conditions. All specifications, requirements, terms and conditions are mandatory and all submittals should anticipate full compliance with no exceptions to these Terms and Conditions.

Incorporation of ITB and Bid in Contract

This ITB and the Seller's response, including all promises, warranties, commitments, and representations made in the successful Bid, shall be binding and incorporated by reference in the Port's contract with the Seller.

Effective Dates of Offer

Offered prices in Bid must remain valid until Port completes award. Should any Seller object to this condition, the Seller must provide objection through a question and/or complaint to the ITB Coordinator prior to the bid closing date.

Cost of Preparing Bids

The Port will not be liable for any costs incurred by the Seller in the preparation and presentation of Bids submitted in response to this ITB including, but not limited to, costs incurred in connection with the Seller's participation in demonstrations and the pre-Bid conference.

Seller Responsibility to Examine Documents

It is the Seller's responsibility to examine all specifications and conditions thoroughly, and comply fully with specifications and all attached terms and conditions. Sellers must comply with all Federal, State, and City laws,

ordinances and rules, and meet all registration requirements where required for Sellers in the Washington Revised Statutes. By responding to this Invitation to Bid (ITB), Seller agrees that he/she has read and understands all documents within this ITB package.

Seller Responsibility to Provide Full Response

It is the Seller's responsibility to respond and Offer Form that does not require interpretation or clarification by the ITB Coordinator. The Seller is to provide all requested materials, forms and information. The Seller is responsible to ensure the Offer properly and accurately reflects the Seller specifications and offering. The Port does not accept materials to supplement the bid after the bid deadline; however this does not limit the right of the Port to consider additional materials obtained by the Port such as references or past experience, even if such materials were not specifically submitted by the Seller, or to seek clarifications from the Seller as needed by the Port.

Do Not Attach Additional Materials with your Bid

Do not insert material sheets, extra product options, comments on boilerplate, supplemental or suggested contract terms, or other similar materials unless such materials are specifically requested by the Port or are necessary to show an "or equal" product specification. Such additional materials can compromise the clarity of your bid and result in rejection of your offer. If the materials conflict with your Offer, the Port will not be obligated to clarify or determine which has priority; the Port may instead reject your bid.

Changes or Corrections to Bids

Prior to the bid submittal closing date and time established for this ITB, a Seller may make changes to his/her bid provided the change is initialed and dated by the Seller. No change to a bid shall be made after the bid closing date and time. Note you cannot change, mark-up or cross-out any condition, format, provision or term that appears on the Port's published Offer Form. If you need to change any of your own prices or answers you write on the Offer Form must be made in pen, initialed, and be clear in intent. Do not use white-out.

Errors in Bids

Sellers are responsible for errors and omissions in their Bids. No such error or omission shall diminish the Seller's obligations to the Port.

Withdrawal of Bid

A bid submittal may be withdrawn by written request of the submitter, prior to bid closing. After the closing date and time, the submittal may be withdrawn only with permission by the Port.

Rejection of Bids and Rights of Award

The Port reserves the right to reject any or all Bids at any time with no penalty. The Port may also waive immaterial defects and minor irregularities in any submitted Bid.

Bid Disposition

All material submitted in response to this ITB shall become the property of the Port upon delivery to the ITB Coordinator.

Minority & Women's Business Enterprises (WMBE)

The Port of Tacoma encourages participation in all of its contracts by Minority & Women's Business Enterprises (MWBE) firms either self-identified or certified by the Office of Minority & Women's Business Enterprises (OMWBE). While the Port does not give preferential treatment, it seeks equitable representation from the minority and women's business community.

Participation may be directly in response to this Solicitation or as a Subcontractor to a Seller. However, unless required by Federal statutes, regulations, grants, or contract terms referenced in the original Solicitation, no preference will be included in evaluating Bids, no minimum level of MWBE participation shall be required as a condition for receiving an award, and Bids will not be evaluated, rejected, or considered Non-Responsive on that basis.

Any affirmative action requirements in Federal regulations or statutes included or referenced in the original Solicitation will apply. Sellers may contact the Office of Minority & Women's Business Enterprises (OMWBE) at <http://www.omwbe.wa.gov/index.shtml> to obtain information on certified firms for potential sub-contracting arrangements. Nothing in this section should prevent or discourage Sellers from inviting participation from non-MWBE firms, MWBE firms, and Small and Emerging Businesses.

Proprietary or Confidential Information

To the extent consistent with [Chapter 42.56 RCW](#), the Public Disclosure Act, Purchasing shall maintain the confidentiality of Seller's information marked confidential or proprietary. If a request is made to view Seller's proprietary information, Purchasing will notify the Seller of the request and of the date that the records will be released to the requester unless Seller obtains a court order enjoining that disclosure. If Seller fails to obtain the court order enjoining disclosure, Purchasing will release the requested information on the date specified.

The Port's sole responsibility shall be limited to maintaining the above data in a secure area and to notify Seller of any request(s) for disclosure for so long as Purchasing retains Seller's information in the Purchasing records. Failure to so label such materials or failure to timely respond after notice of request for public disclosure has been given shall be deemed a waiver by Seller of any claim that such materials are exempt from disclosure.

Requesting Disclosure of Public Records

The Port asks Sellers/Sub-Contractors and their companies to refrain from requesting public disclosure of proposal records until an intention to award is announced. This measure is intended to shelter the solicitation process, particularly during the evaluation and selection process or in the event of a cancellation or re-solicitation. With this preference stated, the Port will continue to respond to all requests for disclosure of public records as required by State Law.

No Gifts and Gratuities

Sellers shall not directly or indirectly offer anything of value (such as retainers, loans, entertainment, favors, gifts, tickets, trips, favors, bonuses, donations, special discounts, work, or meals) to any Port employee, volunteer or official, if it is intended or may appear to a reasonable person to be intended to obtain or give special consideration to the Seller.

No Conflict of Interest

Seller (including officer, director, trustee, partner or employee) must not have a business interest or a close family or domestic relationship with any Port official, officer or employee who was, is, or will be involved in selection, negotiation, drafting, signing, administration or evaluating Seller performance. The Port shall make sole determination on compliance.

7. BID SUBMITTALS

- a) **Legal Name:** Submit a certificate, copy of web-page, or other documentation from the Corporation Commission in which you incorporated that shows your legal name as a company. Many companies use a "Doing Business As" name or a nickname in their daily business. However, the Port requires the legal name of your company, as it is legally registered. When preparing all forms below, use the proper company legal name. Your company's legal name can be verified through the State Corporation Commission in the state in which you were established, which is often within the Secretary of State's Office for each state at <http://www.coordinatedlegal.com/SecretaryOfState.html>
- b) **Bid Offer Form:** This response is mandatory. See Attachment- A

Submittal Checklist

This checklist is for your convenience only. It need not be submitted with your bid. This checklist summarizes each form required to complete and submit your bid package to the Port.

Cover Sheet	Optional
Legal Name	Important
Attachment A - Bid Offer & Non Collusion Form	Mandatory
Dealer Authorization if other than Manufacturer	Mandatory
Attachment C- Specifications and all submittals called out in section 93 of Attachment C	Mandatory

8. EVALUATION PROCESS

The Port shall select the Seller(s) providing best combination of price, lead-time and equipment arrangement, and may consider multiple awards or partial awards to achieve the best overall value to the Port.

Responsiveness and Responsibility: Port Purchasing shall review submittals to determine basic responsiveness (timely submittal, all required forms submitted, etc.), responsibility (minimum qualifications etc.), and technical minimum requirements if any (delivery date, required specifications etc.). An initial review will be made after opening, however additional and more detailed reviews may also be made during evaluation and prior to contract award. The review may be made of all Sellers or only as needed to determine the lowest responsive and responsible Seller for purposes of award.

Specifications: Before tabulating pricing, the Port will evaluate Seller compliance with specifications and bid requirements, and determinations of “or equal” alternates. If submitting an “or equal” the Seller is to provide sufficient materials to show that the product is equivalent, by attaching comprehensive manufacturer specifications or other appropriate materials. Separately, the ITB Coordinator may also obtain and rely upon a manufacturer line card if the ITB Coordinator needs verification that the product is compliant. If the manufacturer specification material differs from the Seller's response or Seller materials, the Seller must clearly explain in his/her bid why the manufacturer specification material would differ from the specifications in the Bid. In absence of Seller's explanations, ITB Coordinator may alone make these determinations, decide in favor or against Seller's proposal and bid, all at no recourse to Seller.

Pricing: Items on price sheets shall then be calculated for award. Item pricing will be multiplied by the number of units required for an item total. Item totals will be totaled for all items for a tabulated total. If an error in math occurs, unit pricing will be considered the correct price and will be used. If any cost item is missing from a Seller Offer Form, the Port reserves the right to reject that Bid or to calculate and compare bids without that cost item considered.

Prompt Payment Discount: The Port will then calculate and reduce the pricing submitted, by applying any prompt payment discounts to evaluate price.

Tie Bids: If the top two Sellers provide the same price, the Port gives preference to local products and local Contractors. When the tied Sellers are out-of-state and there are no local bidders/Sellers, or if two local bidders/Sellers are tied, the Procurement Coordinator will use a coin toss to determine the winner. Those on the evaluation team shall serve as witness to the event.

9. AWARD AND CONTRACT EXECUTION INSTRUCTIONS

The ITB Coordinator intends to provide written notice of the intention to award in a timely manner and to all Sellers responding to the Solicitation.

Protests and Complaints

Protests and/or complaints are to be filed with the Director of Contracts and Purchasing. The Port has rules to govern the rights and obligations of interested parties that desire to submit a complaint or protest to this RFP process. They are:

- **For specification protests**, the protester must state exact location of the challenged portion or clause, unless the challenge concerns an omission, an explanation of why any provision should be struck, added, or altered, and contain suggested corrections. A specification protest must be filed within five (5) business days of solicitation release;
- **For non-responsive determinations**, the aggrieved Seller must specifically state why the determination is in error, identify where its submittal where it believes it is responsive, and why it believes, the Port was in error when it made the non-responsive determination. A non-responsive protest must be filed within two (2) business days of notification: and

- **For protests regarding award determinations**, the aggrieved Seller(s) protest must set forth in specific terms the reasons the Port's decision is thought to be erroneous. An award determination protest must be filed within two (2) business days of notification.

Interested parties have the obligation to know of and understand these rules, and to seek clarification from the Port. Note there are time limits on protests and Sellers have final responsibility to learn of results in sufficient time for such protests to be filed in a timely manner.

Instructions to the Apparently Successful Seller

The Apparently Successful Seller will receive an Intention to Award Letter from the ITB Coordinator after award decisions are made by the Port. The Letter will include instructions for final submittals that are due prior to execution of the contract or Purchase Order.

The Seller will be expected to provide all essential documents within ten (10) business days. This includes attaining a providing proper proof of insurance. If the selected Seller fails to complete all the final submittals within the allotted ten (10) business days, the Port may elect to cancel the intended award and award to the next ranked Seller, or cancel or reissue this solicitation. Cancellation of an award for failure to execute the Contract in the timeframes above may cause Seller disqualification for future solicitations for this same or similar product/service.

Final Submittals Prior to Award

The Seller(s) should anticipate that the Letter will require at least the following. Sellers are encouraged to prepare these documents soon, to eliminate risks of late compliance.

- Ensure the company has a current State of Washington Business License.
- Supply Evidence of Insurance
- Special Licenses (if any)
- Supply a Taxpayer Identification Number and W-9 Form

Attachments

Attachment A – Offer Sheet & Non-Collusion Form

Attachment B – Terms and Conditions

Attachment C – Specification

Attachment D - Drawings

ATTACHMENT A - OFFER SHEET

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Port of Tacoma**ITB# 77781****Title: Outdoor service hoists 1.2 tonnes lift capacity**

All freight and delivery is to be included in the cost of outdoor service hoists.

Item #	Description	Est. Qty.	U/M	Unit Price (MANDATORY)	Total Extended Price (excluding sales tax)
1	Outdoor Service Hoist as specified in Attachment C	4	EA	\$	\$

The desired delivery is 24 January, 2018.

1. It is MANDATORY that you provide a Unit Price. If there is an error between the Unit Price and Extended Price, the Port will correct the Extended Price.
2. The bid prices shall include and cover all duties, handling and transportation charges and all charges incidental to the requested work excluding Sales Tax or Use Tax. Offer shall agree to all Port contract Terms and Conditions without exception.
3. Do not mark, write-in or add any exceptions to the specifications, schedule, terms or conditions. Do not attach alternative boilerplate. Any such exceptions can invalidate your Offer and the Buyer can reject your Bid.
4. If you make an error in typing your prices or any corrections to your Offer Submittal, you may mark it in ink and initial the correction. If it is not marked in ink and or it is not initialled, the Buyer may reject your bid. Do not use whiteout.
5. Prompt Payment Discount: _____%_____ days. Note: Prompt payment discount periods equal to or greater than ten (10) calendar days will receive consideration and bid pricing will be reduced for evaluation by the amount of that discount.
6. Interlocal Agreement: The Port of Tacoma has entered into Interlocal Agreements with other governmental agencies pursuant to RCW 39.34, in lieu of those agencies conducting a separate competitive bid. Does Vendor agree to provide this product or service to such agencies?

Yes: ☐ No: ☐

Non-collusion: The undersigned declares under penalty of perjury that the bid/proposal submitted is a genuine and not a sham or collusive bid, or made in the interest or on behalf of any person or firm not therein named. That the bidder/Seller has not directly or indirectly induced or solicited any bidder on the above work or supplies to put in a sham bid, or any other person or corporation to refrain from bidding. Lastly, that said bidder/Seller has not in any manner sought by collusion to secure to the bidder an advantage over any other bidder or bidders.

Mailing Address, City, State, Zip Code _____

Telephone Number _____ Fax Number _____ Email Address _____

Washington State Contractor's License No. _____ Date of Issue _____

Expiration Date _____ DUNNS Number _____

Unified Business Identifier (UBI) No. _____ Federal Tax Id No. _____

Full Legal Name of Company: _____

Signed By: _____

Printed Name: _____ Date: _____

Port of Tacoma
Standard Terms and Conditions for
Purchase Order Contracts, Invitation to Bid & Request for Quotation

1. **Entire Agreement:** The Contract represents the entire and integrated agreement between the Port and the Vendor. It supersedes all prior discussions, negotiations, representations or agreements pertaining to the Work, whether written or oral. In the event of a conflict between the contract documents and applicable laws, codes, ordinances, regulations or orders of governmental authorities having jurisdiction over the work or any portion thereof, or in the event of any conflict between such applicable laws, codes, ordinances, regulations, or orders, the most stringent requirements of any of the above shall govern and be considered as a part of this Contract in order to afford the Port the maximum benefits thereof.

The contract documents which set forth the rights and responsibilities of the Port and the Vendor with respect to this contract shall be construed in accordance with the laws of the State of Washington. Venue for any action between the Port and the Vendor, arising out of or in connection with this contract shall be in Pierce County, Washington.

The contract includes the following terms and conditions and includes the invitation to bid, request for quotations, specifications, plans, resolutions and policies of the Port of Tacoma and the laws of the state of Washington, incorporated herein by reference.

2. **Definitions:** "Buyer" means Port of Tacoma. "Seller" means the party with whom Buyer is contracting and any reference to "vendor", "subcontractor", "contractor" or "supplier" shall also mean "Seller". The term "purchase order" or "order" shall mean the name or title of the instrument of contracting, including all documents, exhibits, and attachments referenced therein.

3. **Acceptance:** This order expressly limits acceptance to the terms and conditions stated herein. All additional or different terms proposed by Seller are objected to and hereby rejected, unless otherwise provided in writing by the Purchasing Manager.

4. **Anti-Trust:** Seller and Buyer recognize that in actual economic practice, overcharges resulting from anti-trust violations are in fact borne by the Buyer. Therefore, Seller hereby assigns to the Buyer any and all claims for such overcharges.

5. **Assignments:** The provisions or monies due under this contract shall only be assignable with prior written consent of the Purchasing Manager. Shipment and billings made under any name other than Seller's must indicate that shipment is being made through and is subject to all instructions, terms and conditions of this order.

6. **Blanket Purchase Order:** This order is subject to these terms and conditions. Purchases are made as required without minimum or maximum amounts. Purchases are subject to price list provided by Vendor. Order may be terminated by the Port at any time.

7. **Brands:** When a special brand is named it shall be construed solely for the purpose of indicating the standard of quality, performance, or use described. Brands of equal quality, performance and use shall be considered, provided Seller specifies the brand and model and submits descriptive literature, when available. Any bid containing a brand which is not equal quality, performance, or use specified must be represented as an alternate and not as an equal, and failure to do so shall be sufficient reason to disregard the bid.

8. **Changes:** No alteration in any of the terms, conditions, delivery, prices, quality, quantities, or specifications of this order will be effective without written order of the Purchasing Manager. Unauthorized substitutions will be made entirely at Seller's risk and, at Buyer's option, may be returned without prior authorization at Seller's expense.

9. **Default:** The parties agree that in the event a suit is instituted for any default, the prevailing party shall recover its costs, expenses expended or incurred in connection therewith, and reasonable attorney's fees.

10. **Delivery:** For any exception to the delivery date as specified on this order, Seller shall give prior notification and obtain written approval from the Buyer. With respect to delivery under this order, time is of the essence. The order is subject to termination for failure to deliver as specified. The acceptance of late performance with or without objection or reservation shall not waive the right to claim damage for such breach nor constitute a waiver of the requirements for the timely performance of any obligation remaining to be performed by Seller.

11. **Handling:** No charges will be allowed for handling which includes, but is not limited to packing, wrapping, bags, containers or reels, unless otherwise stated herein.

12. **Identification:** All invoices, packing lists, packages, shipping notices, instruction manuals, and other written documents affecting this order shall contain the purchase order number. Packing lists shall be enclosed in each and every box or package shipped pursuant to this order and shall specify contents therein.

13. **Independent Contractor:** An independent contractor relationship is created by this contract. The Seller or its employees or agents performing under this contract are not employees or agents of the Port of Tacoma. Conduct and control of the work will be solely with the Seller.

14. **Infringements:** Seller agrees to protect and save harmless the Buyer against all claims, suits or proceedings for patent, trademark, copyright or franchise infringement arising from the purchase, installation, or use of goods and materials ordered, and to assume all expenses and damages arising from such claims, suits or proceedings.

15. **Liens:** Vendor warrants and represents that all the goods and materials furnished pursuant to this order are free and clear of all liens, claims or encumbrances of any kind.

16. **Nondiscrimination:** The Seller agrees not to discriminate against any client, employee or applicant for employment or services because of race, creed, color, national origin, sex, marital status, age or the presence of any sensory, mental or physical handicap with regard to, but not limited to the employment upgrading, demotion or transfer, recruitment or recruitment advertising, lay-off or termination, rates of pay or other forms of compensation, selection for training, or rendition of services. It is further understood and agreed that any Seller who is in violation of this clause or an applicable affirmative action program shall be barred forthwith from receiving awards of any purchase order from the Port of Tacoma unless a satisfactory showing is made that discriminatory practices or noncompliance has terminated and that a recurrence of such acts is unlikely.

17. **Non-waiver by Acceptance of Variation:** No provision of this order, or the right to receive reasonable performance of any act called for by the Terms shall be deemed waived by a waiver by Buyer of a breach thereof as to any particular transaction or occurrence.

18. **Payments, Cash Discount, Late Payment Charges:** Separate numbered invoices are required for each order. Invoice only for goods delivered. Invoices will not be processed for payment nor will the period of computation for cash discount commence until receipt of a properly completed invoice or when invoiced items are received, whichever is later. If an adjustment in payment is necessary due to damage or dispute, the cash discount

period shall commence on the date final approval for payment is authorized.

Unless otherwise stated, standard payment terms shall be net thirty days following month of invoice date. If Buyer fails to make timely payment, Seller may invoice for one percent per month on the amount overdue, or a minimum of one dollar. Payment shall not be considered late if a check or warrant is available or mailed within the time specified, or if no terms are specified. Payments will normally be remitted by mail. Buyer will not honor drafts, nor accept goods on a sight draft basis.

19. **Prices:** Seller agrees that goods shall be billed at the lowest price at which it offers to sell or sells goods of the same description at or before time fixed in this order for shipment, if price is not stated on this order.

20. **Rejection:** All goods or materials purchased herein are subject to approval by the Buyer. Any rejection of goods or material resulting because of nonconformity to the terms and specifications of this order, whether held by the Buyer or returned, will be at Seller's risk and expense.

21. **Risk of Loss:** Regardless of FOB point, Seller agrees to bear all risks of loss, injury or destruction of goods and materials ordered herein which occur prior to delivery. Such loss, injury or destruction shall not release Seller from any obligation hereunder.

22. **Save Harmless:** Seller shall protect, indemnify, and save the Buyer harmless from and against any damage, cost or liability for any injuries to persons or property arising from acts or omissions of Seller, its employees, agents, or subcontractors.

23. **Shipping Instructions:** Unless otherwise specified, all goods are to be shipped prepaid, FOB destination. When shipping addresses specify room numbers, Seller shall make such delivery thereto without additional charge. When shipment is specified FOB origin, Seller agrees to prepay all shipping charges, route as instructed and, if instructions are not provided, route by most economical common carrier and to bill Buyer as a separate item on the invoice for said charges. If shipping charges are expected to exceed \$100.00, Buyer shall have the option of determining whether shipping shall be prepaid by Seller or billed directly to Buyer. Seller's invoice for shipping charges shall include a copy of the freight bill showing that payment for shipping charges has been made. It is agreed that Buyer reserves the right to refuse COD shipments.

24. **Taxes:** Unless otherwise specified, Buyer agrees to pay all state of Washington sales or use tax. No charge by Seller shall be made for federal excise taxes and Buyer agrees to provide exemption certificates when required.

25. **Termination for Convenience:** The Port may terminate this contract at any time for government convenience, in which case it shall provide notice to the Seller and reimburse the Seller for its costs and fees incurred prior to the notice of termination.

26. **Termination for Default:** In the event of breach by Seller of any of the provisions of this contract, the Buyer reserves the right to terminate this contract forthwith upon giving oral or written notice to Seller. Seller shall be liable for damages suffered by Buyer resulting from Seller's breach of contract.

27. **Warranties:** Seller warrants that articles supplied under this order conform to specifications herein and are fit for the purpose for which such goods are ordinarily employed, except that if a particular purpose is stated, the material must also be fit for that particular purpose.

Item #	Attachment C: ITB - 77781 Specification Requirements Outdoor Service Hoists, 1.2 tonnes Lift Capacity	Check if meets or exceeds	Description of offered exceptions
General			
1	This specification describes requirements for the supply of outdoor maintenance service hoists to the Port of Tacoma.		
	Four (4) each identical underrunning monorail service hoists shall be included in this scope of supply.		
2	Permanent installation locations of the service hoists shall be at inshore ends (endtie beams) of trolley girders on new dockside container handling cranes at the Port; one service hoist per container crane.		
3	The new dockside container cranes will be delivered to the Port not later than 1 February 2018.		
6	Placement and installation of the service hoists is not included in this scope of supply.		
7	Service hoist warranty periods (starting from delivery date at Port of Tacoma) shall not be less than:		
a	First 12 months coverage for parts and labor.		
b	For second 12 months coverage for parts.		
8	The manufacturer shall deliver the fully assembled service hoists to: 802 Port Center Road, Tacoma WA 98421		
9	Ex-works shipping of the service hoists shall be not more than 24 weeks following order placement.		
10	Shipping of service hoists shall take not more than 3 weeks from ex-works to Port of Tacoma locations.		
Organizational Compliance			
11	Service hoists shall meet all applicable requirements of the following publications (latest edition) and organizations:		
a	ASME B30.16 Overhead Hoists (Underhung)		
b	FEM 9.511 Classification of Mechanisms		
c	FEM 9.682 Selection of Lifting Motors		
d	WISHA		
e	NFPA 70 National Electric Code		
f	IEC		
g	NEMA		
h	UL/CSA		
Climate Exposure			
12	Service hoists shall be suitable for operation and storage in the outdoor Pacific Northwest maritime environment;		

Item #	Attachment C: ITB - 77781 Specification Requirements Outdoor Service Hoists, 1.2 tonnes Lift Capacity	Check if meets or exceeds	Description of offered exceptions
	temperature range -15° to +37° C; humidity 10 to 100%; frequent rain and fog; occasional wintertime snow and ice.		
13	During operation, service hoists will be fully exposed to all weather conditions. When stored, hoists will be positioned beneath a rain cover, and pendant pushbutton stations shall be stored in weather-tight box.		
Hoist Location, Support & Usage			
14	Each service hoist will be located on jibcrane-type monorail beam at inshore end (endtie beam) of a container crane's trolley girder arrangement. See three attached drawings (Appendix D) for illustrations of service hoist location and arrangement.		
15	Service hoists will be used for removal, disassembly, reassembly, and installation efforts of components within monorail beam reach. Hoisting will be between pier surface and trolley girder elevations.		
16	Service hoist activity will be very intermittent. Despite low activity, each service hoist must be capable of unlimited immediate service when activity is required.		
Duty Classification			
17	Service hoist duty classification shall be not less rigorous than 2m in accordance with FEM 9.511		
Hoist Characteristics & Arrangement			
18	Lift capacity shall be not less than 1.2 tonnes (tonne = 2205 lbs), and shall be prominently marked on hoist body.		
19	Service hoists shall be capable of intermittently handling 25% over lift capacity for certification purposes.		
20	Hook vertical travel dimension shall be not less than 65 m (213.3 ft) or more than 80 m (262.0 ft).		
21	Hoist speeds shall be:		
a	High speed hoisting/lowering within 62 - 65 ft/min.		
b	Low speed hoisting/lowering within 6 - 10 ft/min.		
22	Trolley speeds shall be:		
a	High speed travel within 50 - 80 ft/min.		
b	Low speed travel within 10 - 20 ft/min.		
23	With hook fully raised, vertical dimension between hook palm and trolley wheel tread shall be not more than 1.38 m (4.53 ft).		

Item #	Attachment C: ITB - 77781 Specification Requirements Outdoor Service Hoists, 1.2 tonnes Lift Capacity	Check if meets or exceeds	Description of offered exceptions
24	Active length of hoist drum (low to high hook) shall be not more than 1.40 m (4.59 ft)		
25	Horizontal dimension between trolley wheel centers shall be not more than 1.54 m (5.05 ft), and from trolley wheel center nearest jib column to side of electrical enclosure not more than 300 mm (12 in).		
26	Electrical power cable shall enter service hoist electrical enclosure at end opposite hook fully raised end.		
27	Raincover shall be provided over top of hoist drum.		
28	Service hoist total weight, including wire rope/hook/overhaul weight shall not exceed 770 kg (1,698 lbs)		
Hoist Motor, Gearbox & Braking System			
29	Hoist shall be provided with a two-motor (main and microspeed) assembly for normal and lowspeed lifting and lowering.		
30	Hoist motors shall be rated for not less than 240 starts per hours and 60% duty cycle per FEM 9.682.		
31	Hoist motors shall provide sufficient power to lift and lower rated load at specified speeds, all without injurious overheating.		
32	Hoist motors shall be TEFC, with windings having Class F insulation and embedded thermal protectors.		
33	No hoist motor shall be mounted within the hoist drum.		
34	Each motor shall be protected against interior condensation with heater, protective surface coating and drain holes.		
35	Hoist holding brake shall be an electrically opened, mechanically closed device, with torque rating not less than 150% of main motor full load torque.		
36	Hoist holding brake shall include a manual release device to enable safe lowering of load in case of power loss or system malfunction.		
37	Holding brake friction materials shall not include asbestos.		
38	Braking during lifting and lowering motions shall be with electrical regeneration to speeds not greater than 120% of specified speeds.		

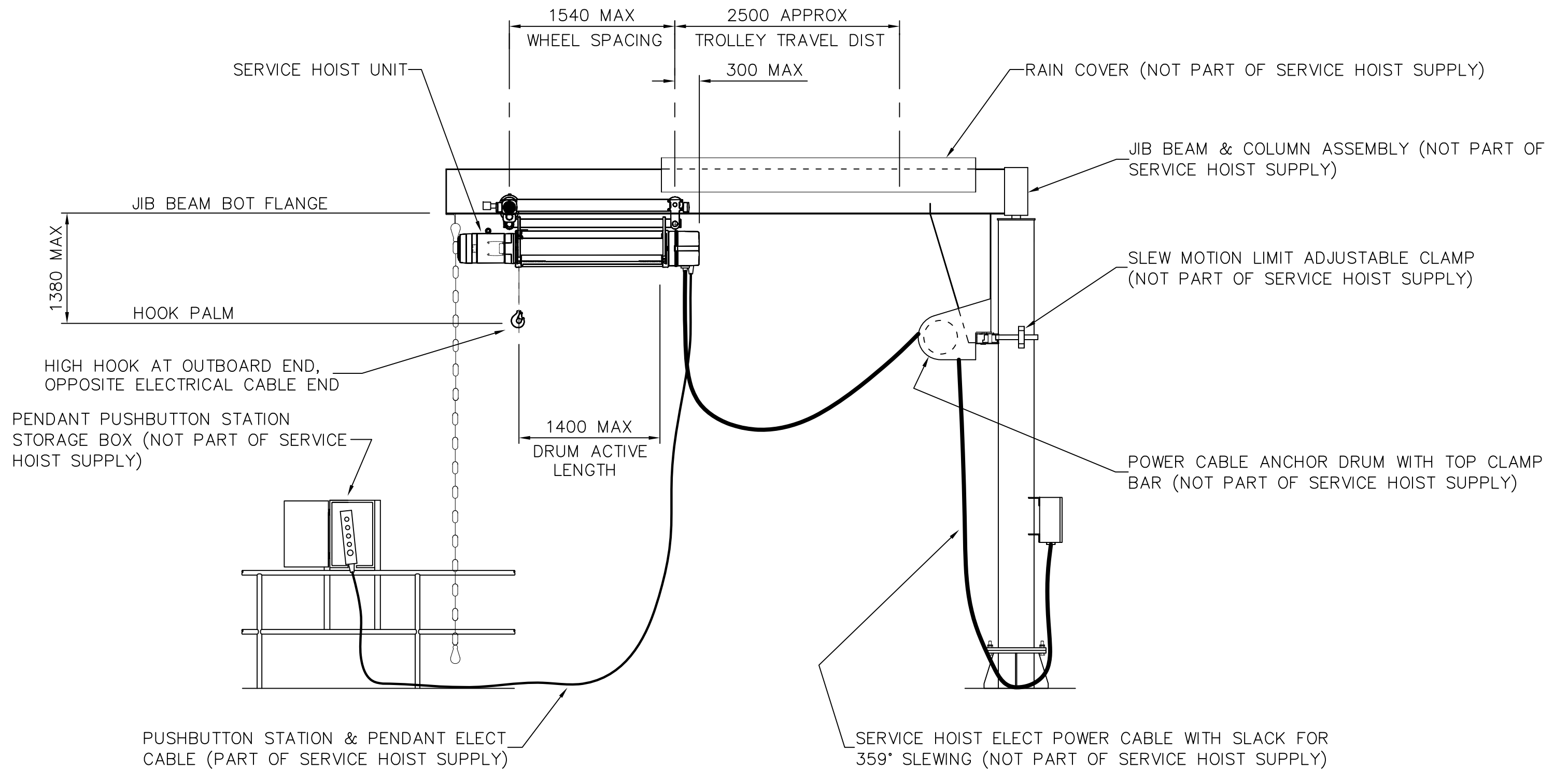
Item #	Attachment C: ITB - 77781 Specification Requirements Outdoor Service Hoists, 1.2 tonnes Lift Capacity	Check if meets or exceeds	Description of offered exceptions
39	Hoist gearbox shall be planetary or parallel shaft arrangement with hardened and ground alloy steel gears. Lubrication shall be via splash oilbath immersion.		
Hoist Drum			
40	Hoist wire rope drum shall be of welded construction, with groove depths machined to approximately 0.38x wire rope nominal diameter.		
41	Hoist wire rope shall be wrapped to the drum in single layer.		
42	Wire rope drum shall be direct-coupled to hoist gearbox.		
43	Wire rope drum shall be supported at both ends by lubricated antifriction bearings.		
44	Wire rope drum shall be provided with a guide arrangement to ensure proper seating of rope into grooves, and minimize scuffing action against ridges.		
45	Wire rope guide arrangement shall be easily replaceable without special tools.		
46	Raincover shall be provided over top of hoist drum.		
Monorail Trolley Motor, Gearbox, Wheels & Braking System			
47	Trolley travel shall be provided by two-speed motor (high and low speed windings) assembly for normal and lowspeed operation.		
48	Trolley travel motor shall be rated for not less than 240 starts per hour and 40% duty cycle per FEM 9.682.		
49	Motor shall provide sufficient power to travel with rated load at specified speeds, all without injurious overheating.		
50	Motor shall be TEFC, with windings having Class F insulation and embedded thermal protectors.		
51	Motor shall be protected against interior condensation with heater, protective surface coating and drain holes.		
52	Trolley travel holding brake shall be electrically opened, mechanically closed device, with torque rating not less than 150% of motor full load torque.		
53	Holding brake friction materials shall not include asbestos.		
54	Trolley shall be provided with cushion-type bumpers at both ends.		
55	Trolley travel gearbox shall be planetary or parallel shaft arrangement with hardened and ground alloy steel gears. Lubrication shall be via oilbath immersion. Final speed		

Item #	Attachment C: ITB - 77781 Specification Requirements Outdoor Service Hoists, 1.2 tonnes Lift Capacity	Check if meets or exceeds	Description of offered exceptions
	reduction may be with open gears having grease lubrication.		
56	Trolley wheels shall be single flanged, and cast of material to minimize treadwear.		
57	Trolley wheel arrangement shall be adjustable for monorail beam flange width 125-300 mm (4.9-11.8 in) wide. Port of Tacoma shall provide actual beam flange width at order placement.		
Electrical Power & Control			
58	Main power supply 480 VAC 3Φ 60 hz		
59	Control power 120 VAC 60 hz		
60	All electrical power and control components shall be located in enclosure mounted on the service hoist assembly.		
61	Electrical enclosure, motor and brake protections shall be not less rigorous than IEC IP65.		
62	Pushbutton station pendant and power cables shall enter electrical enclosure at underside locations. Cable entry points shall be reinforced to prevent material distortion or cracking.		
63	Electrical enclosure shall be protected against interior condensation with heater and protective surface coating.		
64	Control of hoisting and trolley travel motions shall be with magnetic contractors.		
65	All motions shall start and stop smoothly to minimize system impact, load swing and other adverse conditions.		
66	Control power shall be not more than 120VAC, and shall be isolated from main power supply by transformer.		
67	Service hoist shall be provided with a geared limitswitch device to identify: upper limit of hoist travel stop; upper limit of hoist travel slowdown; lower limit of hoist travel stop. Stop and slowdown points shall be easily adjustable to actual conditions on the container crane.		
68	Hoist travel geared limitswitch shall include a digital drum revolution counter to aid evaluation of service use and maintenance intervals.		
69	Braking during hoist and trolley travel motions shall be with electrical regeneration to speeds not greater than 120% of specified speeds.		

Item #	Attachment C: ITB - 77781 Specification Requirements Outdoor Service Hoists, 1.2 tonnes Lift Capacity	Check if meets or exceeds	Description of offered exceptions
70	Trolley travel shall be provided with limit switches to identify and stop motion at ends of trolley travel.		
Pendant & Pushbutton Station			
71	Control of all motions shall be from pushbutton station mounted at end of electrical cable pendant suspended beneath service hoist.		
72	Pushbutton station shall be abrasion and impact resistant enclosure, with protection not less rigorous than IEC IP65.		
73	Control pushbuttons on the pendant station shall include:		
a	Mushroom head power on/Estop off		
b	2 step (high/low speed) hook raise		
c	2 step (high/low speed) hook lower		
d	2 step (high/low speed) trolley forward		
e	2 step (high/low speed) trolley reverse		
74	Length of the pendant electrical cable shall be not less than 10 m (32.8 ft) to allow adjustment following installation on the container cranes.		
75	Pendant cable connection to pushbutton station shall have weather-tight strain relief device.		
76	Revision of pendant length shall be easily accomplished via rework of conductor connections at the hoist electrical enclosure.		
Reeving, Wire Rope, & Hook			
77	Single part reeving between drum and hook.		
78	Rotation resistant rope, diameter not less than 12.5 mm, 18x7 or 19x7 IWRC construction, ungalvanized, with Type 2 lubrication.		
79	Wire rope breaking strength shall be not less than 5x working load.		
80	Wire rope shall be suitable for use of a swivel-mounted hook.		
81	Wire rope ends shall be seized.		
82	Hook shall be forged alloy steel, single throat, with ultimate load not less than 5x working load.		
83	Hook shall be provided with self-closing throat latch to prevent sling disengagement.		
84	Hook shall be provided with a swivel.		

Item #	Attachment C: ITB - 77781 Specification Requirements Outdoor Service Hoists, 1.2 tonnes Lift Capacity	Check if meets or exceeds	Description of offered exceptions
85	Overhaul weight shall be provided integral or immediately above the hook. Overhaul weight shall be not less than 44 kg (98 lbs).		
Lubrication			
86	Gearboxes shall be provided with synthetic lubricant resistant to degradation from atmospheric moisture, and suitable for 10,000 hrs service life between changeout.		
87	All bearings and bushings shall be properly lubricated prior to ex-works shipment.		
88	Wire ropes shall be provided with Type 2 lubrication.		
Coatings & Protections			
89	All potentially corroding surfaces shall be cleaned to near-white metal and coated with an epoxy paint system suitable for resisting degradation in the maritime environment. Paint system DFT shall be not less than 240 µm.		
90	All fasteners shall be plated or stainless steel to prevent corrosion in the maritime environment.		
91	All synthetic materials (plastic, fiberglass, rubber, etc) shall be specially stabilized to minimize deterioration from frequent sunlight UV exposure.		
92	All unpainted/uncoated mechanical components shall be coated with specialty wax-oil type preservative to prevent corrosion.		
Submittals Included with Proposal			
93	All bidders shall include with their proposal the following information:		
a	Paper hardcopy or PDF files of these Specification pages with check marks indicating item understanding /adherence, or description of item exception.		
b	Paper hardcopy or PDF drawings illustrating anticipated service hoist and pendant pushbutton station arrangements.		
c	Anticipated weight of service hoist, including wire rope, hook and overhauling weight.		
d	Pendant electrical cable type/grade, and outside diameter.		

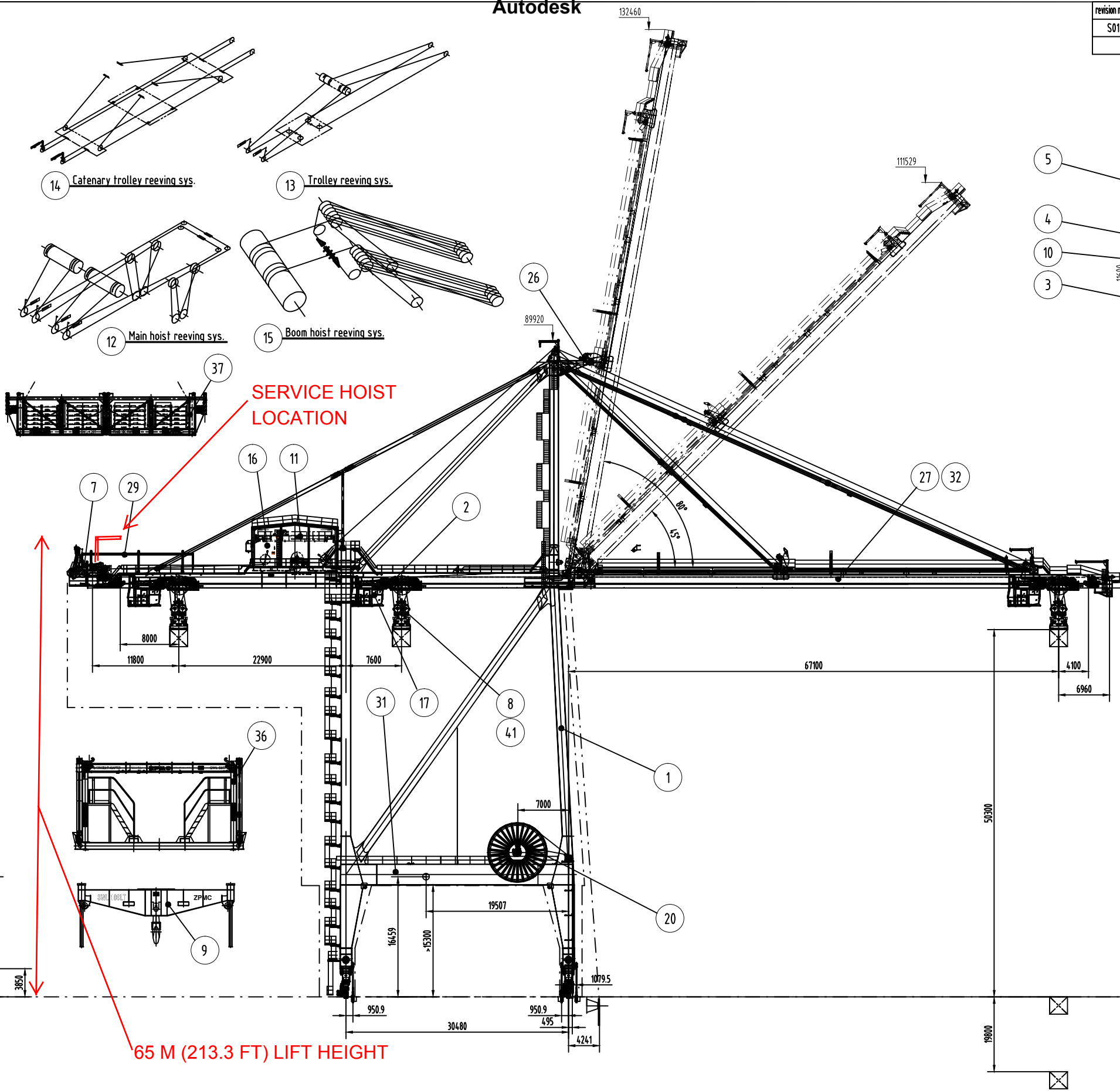
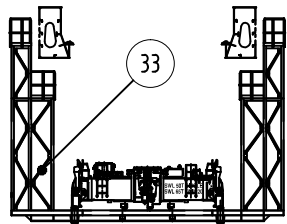
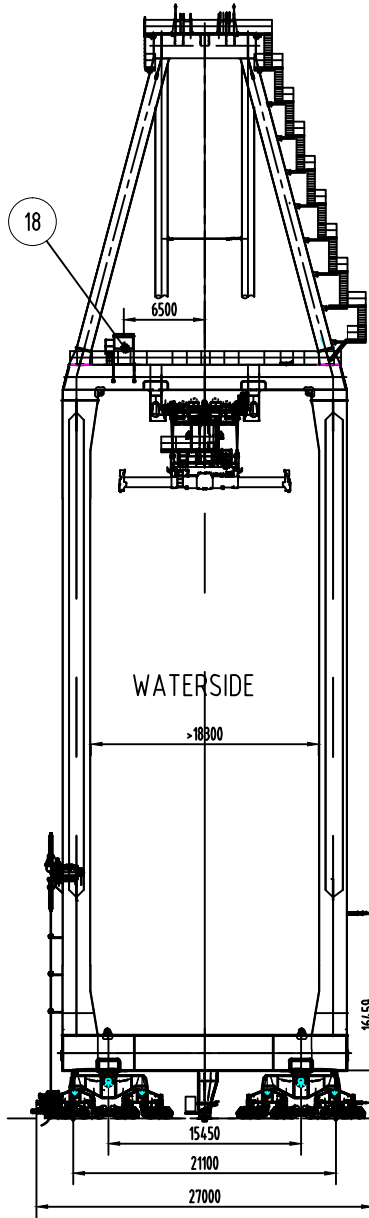
Item #	Attachment C: ITB - 77781 Specification Requirements Outdoor Service Hoists, 1.2 tonnes Lift Capacity	Check if meets or exceeds	Description of offered exceptions
e	Size dimensions of pendant pushbutton station, including cable gland.		
f	Service hoist full-load current draw to allow sizing of motor starter/disconnect device in machinery house.		
Submittals Following Receipt of Order			
94	Not later than two (2) months following receipt of order, manufacturer shall provide to Port for review:		
a	Paper hardcopy or PDF drawings illustrating final service hoist and pendant pushbutton station arrangements.		
b	Description final operating and functionality characteristics.		
c	Final weight of service hoist, including wire rope, hook and overhauling weight.		
d	Dates of ex-works shipping and expected arrival at Port of Tacoma.		
95	Port's review is to verify compliance with these Specifications. All issues of non-compliance shall be promptly addressed with no extension to the delivery schedule.		
Publications/Manuals/Local Support			
96	Each service hoist shall be delivered with one (1) set of installation instruction, maintenance, spare parts and operation instruction manuals on CD; thus total of four (4) CD's for this scope of supply.		
97	Service hoists shall be supported by a local company having inventory of common wear item spare parts and warranty service personnel within 60 miles to the Port of Tacoma.		



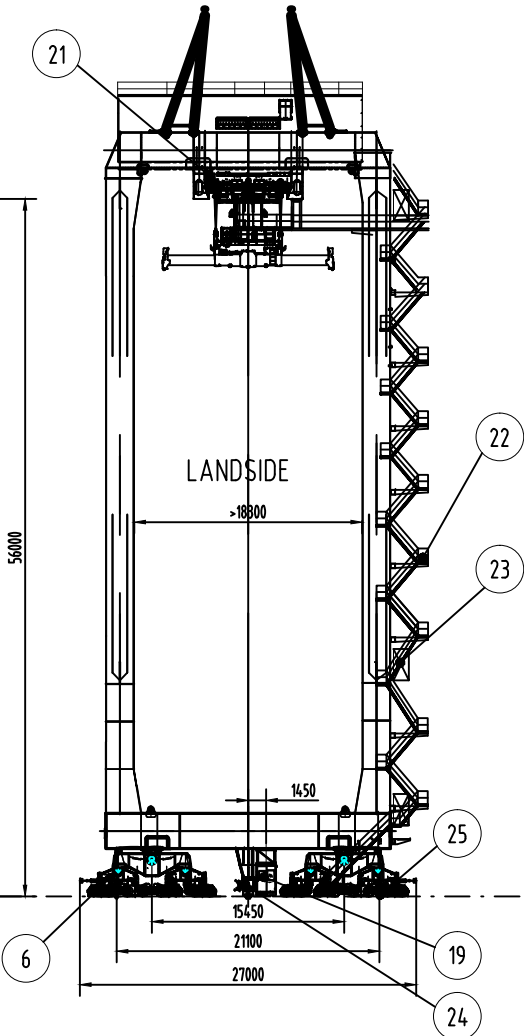
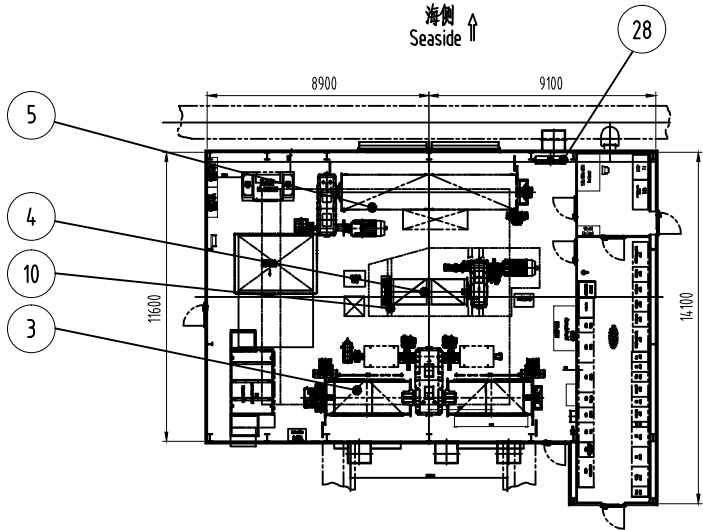
CONTAINER CRANE ENDTIE MAINTENANCE SERVICE
HOIST ARRANGEMENT – PORT OF TACOMA

Main Parameters (主要参数)		
Rated Load (额定载荷)	Under Spreader (吊具下)	Single Lift (单机) 50 LT
	Twin Lift (双机)	65 LT
	Under Cargo Beam (吊钩梁下)	100 LT
Speeds (速度)	Main Hoist (主起升)	Loaded (满载) 90m/min
	Empty Spreader (空载)	180m/min
	Trolley (小车)	24.5m/min
Motors (电机)	Gantry (大车)	48m/min
	Boom Hoist Time (臂架起升时间)	0°-80° ≤ 6min
		0°-45° ≤ 3min
Main Hoist (主起升)		2x600kw(900/1800rpm) S1
	Trolley (小车)	295kw(1750rpm) S1
	Gantry (大车)	16x23kw(1680rpm) S2-30min
Boom Hoist (臂架起升)		335kw(1750rpm) S2-60min
Rail Gauge (轨距)		30.48m
Out Reach (外伸距)		67.1m
Back Reach (后伸距)		22.9m
Lift Height (起升高度)	Above rail (轨上)	50.3m
	Below rail (轨下)	19.8m
Power(电源)		13.8kv, 60HZ - 3P

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revision no.	sub.No.	description	date	sign
S01	D00		2016.4.8	ZXP

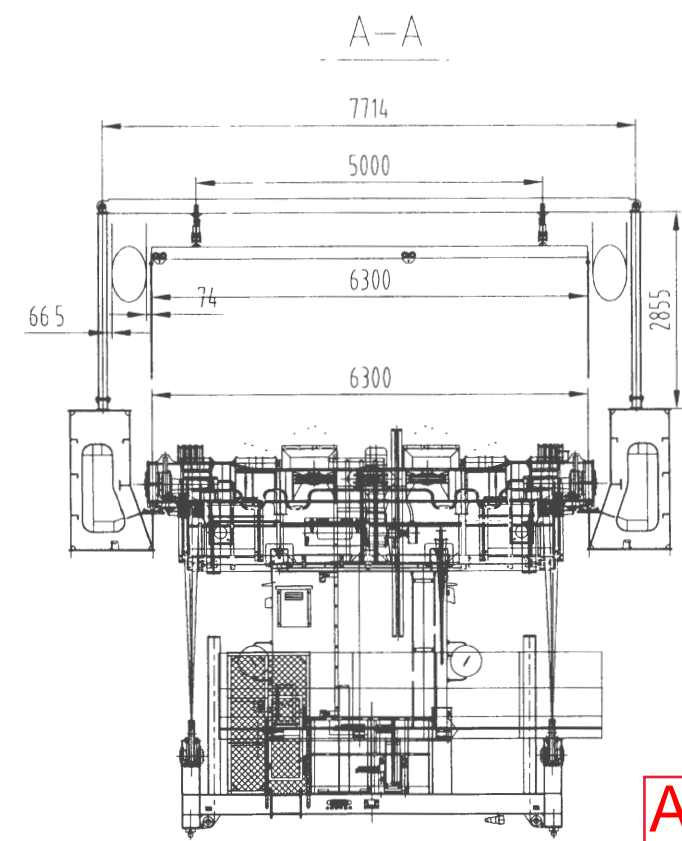
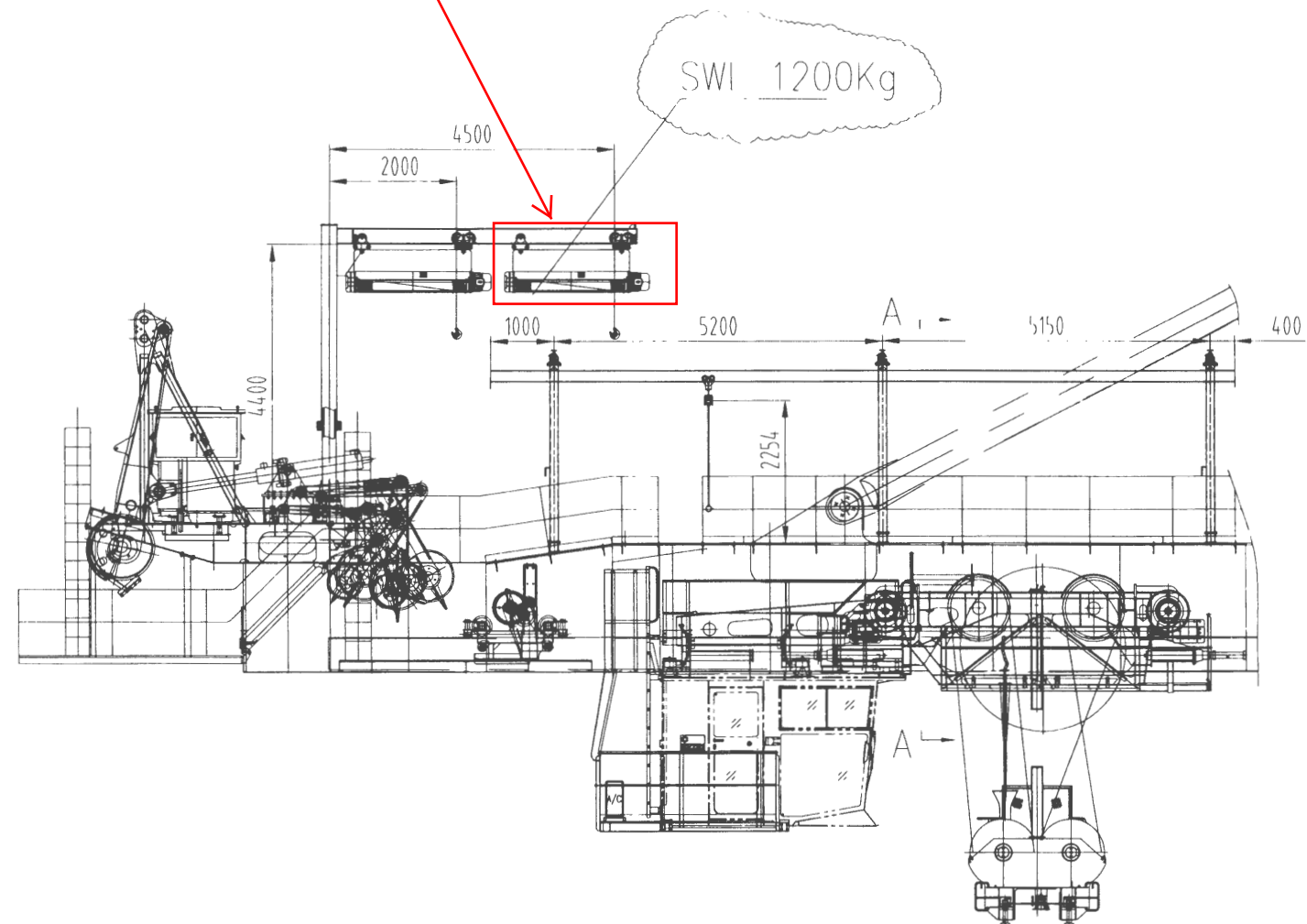


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Appendix D
Sheet 2 of 3

NO.	SUB-NO. or STDD	NAME & SIZE	MTRL or STYLE	QTY/set	each	total	NOTE
PROJECT: 2 STS Cranes for Port of Tacoma			DESIGN STAGE:	1:300 SCALE:			
ITEM NAME: GENERAL ARRANGEMENT 总布置图			DRAW NO: J690A00	PROJ.			
ZPMC	DSGN		TRACE		APP.		
	DRAW		CHK		SET/CRANE		
	CHK		VER.		WEIGHT		

SERVICE HOIST ARRANGEMENT



Appendix D
Sheet 3 of 3

