

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:

**Public Works Government Services Canada- Bid
Receiving / Réception des soumissions
189 Prince William Street
Room 421
Saint John
New Brunswick
E2L 2B9**

Request For a Standing Offer Demande d'offre à commandes

Regional Individual Standing Offer (RISO)

Offre à commandes individuelle régionale (OCIR)

Canada, as represented by the Minister of Public Works and Government Services Canada, hereby requests a Standing Offer on behalf of the Identified Users herein.

Le Canada, représenté par le ministre des Travaux Publics et Services Gouvernementaux Canada, autorise par la présente, une offre à commandes au nom des utilisateurs identifiés énumérés ci-après.

Comments - Commentaires

Vendor/Firm Name and Address

Raison sociale et adresse du fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

Public Works Government Services Canada- Bid
Receiving / Réception des soumissions
189 Prince William Street
Room 421
Saint John
New Bruns
E2L 2B9

Title - Sujet Floating Wharves,East Coast,N.B.	
Solicitation No. - N° de l'invitation EC015-130554/A	Date 2012-06-12
Client Reference No. - N° de référence du client EC015-130554	GETS Ref. No. - N° de réf. de SEAG PW-\$PWB-007-3084
File No. - N° de dossier PWB-2-35016 (007)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2012-06-28	Time Zone Fuseau horaire Atlantic Daylight Saving Time ADT
Delivery Required - Livraison exigée See Herein	
Address Enquiries to: - Adresser toutes questions à: Ellis-Herring , Alison PWB	Buyer Id - Id de l'acheteur pwb007
Telephone No. - N° de téléphone (506)636-3908 ()	FAX No. - N° de FAX (506)636-4376
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Floating Wharves East Coast New Brunswick Canada	
Security - Sécurité This request for a Standing Offer does not include provisions for security. Cette Demande d'offre à commandes ne comprend pas des dispositions en matière de sécurité.	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

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PART 1 - GENERAL INFORMATION

1. Introduction

The Request for Standing Offers (RFSO) is divided into seven parts plus attachments and annexes, as follows:

Part 1: provides a general description of the requirement;

Part 2: provides the instructions applicable to the clauses and conditions of the RFSO and states that the Offeror agrees to be bound by the clauses and conditions contained in all parts of the RFSO;

Part 3: provides offerors with instructions on how to prepare their offer to address the evaluation criteria specified;

Part 4: indicates how the evaluation will be conducted, the evaluation criteria which must be addressed in the offer, the security requirement, if applicable, and the basis of selection;

Part 5: Insurance Requirements: includes specific requirements that must be addressed by offerors; and

Part 6A: includes the Standing Offer containing the offer from the Offeror and the applicable clauses and conditions;

Part 6B: includes the clauses and conditions which will apply to any contract resulting from a call-up made pursuant to the Standing Offer.

The Annexes include the Basis of Payment, Insurance Requirements and the Specification.

2. Summary

This Request for a Standing Offer (RFSO) is to establish a Standing Offer for the provision of all labour and material required to build, transport and unload each floating wharf module on land at the location that will be specified on each individual call-up. The locations could be any public wharves along the East coast of New Brunswick. The period of the Standing Offer is two (2) years from date of issuance. All work is to be completed on an “as and when required” basis in accordance with Annex “C”, Specification.

This agreement is subject to the provisions of the Agreement on Internal Trade (AIT).

3. Debriefings

After issuance of a standing offer, offerors may request a debriefing on the results of the request for standing offers. Offerors should make the request to the Standing Offer Authority within 15 working days of receipt of notification that their offer was unsuccessful. The debriefing may be provided in writing, by telephone or in person.

PART 2 - OFFEROR INSTRUCTIONS

1. Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the Request for Standing Offers (RFSO) by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual (<http://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Offerors who submit an offer agree to be bound by the instructions, clauses and conditions of the RFSO and accept the clauses and conditions of the Standing Offer and resulting contract(s).

The 2006 (2012-03-02) Standard Instructions - Request for Standing Offers - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the RFSO.

1.1 SACC Manual clauses

SACC Manual clause M0019T (2007-05-25) Firm Prices and/or Rates

2. Submission of Offers

Offers must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the Request for Standing Offers.

Offers by facsimile will be accepted. Facsimile Number is (506) 636-4376.

3. Enquiries - Request for Standing Offers

All enquiries must be submitted in writing to the Standing Offer Authority no later than five (5) calendar days before the Request for Standing Offers (RFSO) closing date. Enquiries received after that time may not be answered.

Offerors should reference as accurately as possible the numbered item of the RFSO to which the enquiry relates. Care should be taken by offerors to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the questions or may request that offerors do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered with copies to all offerors. Enquiries not submitted in a form that can be distributed to all offerors may not be answered by Canada.

4. Applicable Laws

The Standing Offer and any contract resulting from the Standing Offer must be interpreted and governed, and the relations between the parties determined, by the laws in force in New Brunswick.

Offerors may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their offer, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the offerors.

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PART 3 - OFFER PREPARATION INSTRUCTIONS

1. Offer Preparation Instructions

Section I: Financial Offer

Offerors must submit their financial offer in accordance with “Annex "A", Basis of Payment". The total amount of Goods and Services Tax or Harmonized Sales Tax must be shown separately, if applicable.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

1. Evaluation Procedures

Offers will be assessed in accordance with the entire requirement of the Request for Standing Offers, including the financial evaluation criteria.

1.1 Financial Evaluation

1.1.1 Offerors will be evaluated on the basis of the lowest overall Total Estimated Amount in Canadian dollars, the Harmonized Sales Tax (HST) excluded. The Total Evaluated Price will be calculated using the estimated usage figures on the Unit Price Table (See Annex "A"). Offerors are required to bid on all line items in the unit price table or their offer may be considered non-responsive.

2. Basis of Selection

2.1 Two (2) standing offers will be recommended for use as a result of this Solicitation. The two (2) highest ranked offers will be recommended for issuance of a RISO based on an ideal business distribution percentage which has been pre-established as follows: 60% of the business volume to the top ranked offer and 40% of the business volume to the second ranked offer.

PART 5 - INSURANCE REQUIREMENTS

The Offeror must provide a letter from an insurance broker or an insurance company licensed to operate in Canada stating that the Offeror, if issued a standing offer as a result of the request for standing offer, can be insured in accordance with the Insurance Requirements specified in **Annex B**.

If the information is not provided in the offer, the Standing Offer Authority will so inform the Offeror and provide the Offeror with a time frame within which to meet the requirement. Failure to comply with the request of the Standing Offer Authority and meet the requirement within that time period will render the offer non-responsive.

PART 6 - STANDING OFFER AND RESULTING CONTRACT CLAUSES

A. STANDING OFFER

1. Offer

1.1 The Offeror offers to fulfill the requirement in accordance with the Specification in Annex "C".

2. Standard Clauses and Conditions

All clauses and conditions identified in the Standing Offer and resulting contract(s) by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual (<http://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

2.1 General Conditions

2005 (2012-03-02) General Conditions - Standing Offers - Goods or Services, apply to and form part of the Standing Offer.

3. Term of Standing Offer

3.1 Period of the Standing Offer

The period for making call-ups and providing services against the Standing Offer is for 2 years from date of award.

4. Authorities

4.1 Standing Offer Authority

The Standing Offer Authority is:

Alison Ellis-Herring
Public Works and Government Services Canada
Acquisitions Branch
Real Property Contracting
189 Prince William, Room 421
Saint John, N.B.
E2L 2B9

Telephone: (506) 636-3908

Facsimile: (506) 636-4376

E-mail address: alison.ellis-herring@pwgsc.gc.ca

The Standing Offer Authority is responsible for the establishment of the Standing Offer, its administration and its revision, if applicable. Upon the making of a call-up, as Contracting Authority, he is responsible for any contractual issues relating to individual call-ups made against the Standing Offer by any Identified User.

4.2 Project Authority

The Project Authority for the Standing Offer is identified in the call-up against the Standing Offer.

The Project Authority is the representative of the department or agency for whom the Work will be carried out pursuant to a call-up against the Standing Offer and is responsible for all the technical content of the Work under the resulting Contract.

4.3 Offeror's Representative

Name: _____

Telephone: () _____

Fax: () _____

E-mail: _____

5. Identified Users

The Identified User authorized to make call-ups against the Standing Offer is: Public Works and Government Services Canada.

6. Call-up Instrument

The Work will be authorized or confirmed by the Identified User(s) using form CF942.

7. Limitation of Call-ups

Individual call-ups against the Standing Offer must not exceed \$75,000.00 (HST included).

8. Financial Limitation

The total cost to Canada resulting from call-ups against the Standing Offer must not exceed the sum of \$231,000.00 (HST extra) unless otherwise authorized in writing by the Standing Offer Authority. The Offeror must not perform any work or services or supply any articles in response

to call-ups which would cause the total cost to Canada to exceed the said sum, unless an increase is so authorized.

The Offeror must notify the Standing Offer Authority as to the adequacy of this sum when 75 percent of this amount has been committed, or 4 months before the expiry date of the Standing Offer, whichever comes first. However, if at any time, the Offeror considers that the said sum may be exceeded, the Offeror must promptly notify the Standing Offer Authority.

9. Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- a) the call up against the Standing Offer, including any annexes;
- b) the articles of the Standing Offer;
- c) the general conditions 2005 (2012-03-02), General Conditions - Standing Offers - Goods or Services
- d) Supplemental General Conditions 2010C (2012-03-02), General Conditions - Services (Medium Complexity);
- e) Specifications and drawings;
- f) Annex "A", Basis of Payment;
- g) Any amendment issued or any allowable offer revision received before the date and time set for solicitation closing
- h) the Offeror's offer

10. Certifications

10.1 Compliance

Compliance with the certifications provided by the Offeror is a condition of authorization of the Standing Offer and subject to verification by Canada during the term of the Standing Offer and of any resulting contract that would continue beyond the period of the Standing Offer. In the event that the Offeror does not comply with any certification or it is determined that any certification made by the Offeror in its offer is untrue, whether made knowingly or unknowingly, Canada has the right to terminate any resulting contract for default and set aside the Standing Offer.

11. Applicable Laws

The Standing Offer and any contract resulting from the Standing Offer must be interpreted and governed, and the relations between the parties determined, by the laws in force in New Brunswick.

12. Estimates

SACC Manual clause M3800C (2006-08-15) Estimates

13. Insurance Requirements

The Contractor must comply with the insurance requirements specified in Annex B . The Contractor must maintain the required insurance coverage for the duration of the Standing Offer. Compliance with the insurance requirements does not release the Contractor from or reduce its liability under the Standing Offer.

The Contractor is responsible for deciding if additional insurance coverage is necessary to fulfill its obligation under the Standing Offer and to ensure compliance with any applicable law. Any additional insurance coverage is at the Contractor's expense, and for its own benefit and protection.

The Contractor must forward to the Standing Offer Authority within seven (7) days after request from the Standing Offer Authority and prior to award of the Standing Offer, a Certificate of Insurance evidencing the insurance coverage and confirming that the insurance policy complying with the requirements is in force. Coverage must be placed with an Insurer licensed to carry out business in Canada. The Contractor must, if requested by the Standing Offer Authority, forward to Canada a certified true copy of all applicable insurance policies.

B. RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from a call-up against the Standing Offer.

1. Statement of Work

The Contractor must perform the Work described in the call-up against the Standing Offer.

2. Standard Clauses and Conditions

2.1 General Conditions

Supplemental General Conditions 2010C (2012-03-02), General Conditions - Services (Medium Complexity); apply to and form part of the Contract.

3. Term of Contract

3.1 Period of the Contract

The Work must be completed in accordance with the call-up against the Standing Offer.

4. Payment

4.1 Basis of Payment

Refer to "Annex "A", Basis of Payment"

4.2 Limitation of Price

SACC Manual clause C6000C (2011-05-16) Limitation of Price

4.3 Single Payment

SACC Manual clause H1000C (2008-05-12) Single Payment

5. Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.

2. Invoices must be distributed as follows:

(a) The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.

Annex "A"

Basis of Payment

Unit Price Table

Floating Wharves, Various Locations, New Brunswick 2012-2014

Item	Class of Labour, Plant or Material	Unit of Measurement	Estimated Quantity	Price per Unit GST/HST extra	Estimated Total Price GST / HST extra
1	3 meter Floating Wharf	Each	2		
2	9 meter Floating Wharf	Each	2		
3	12 meter Floating Wharf	Each	12		
4	Supply of Additional Interfloat Connections	Each	20		
TOTAL					

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ANNEX 'B'

INSURANCE REQUIREMENTS

INSURANCE REQUIREMENTS

Commercial General Liability Insurance

1. The Contractor must obtain Commercial General Liability Insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, **but for not less than \$2,000,000 per accident or occurrence and in the annual aggregate.**
2. The Commercial General Liability policy must include the following:
 - (a) Additional Insured: Canada is added as an additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract. The interest of Canada should read as follows: Canada, as represented by Public Works and Government Services Canada.
 - (b) Bodily Injury and Property Damage to third parties arising out of the operations of the Contractor.
 - (c) Products and Completed Operations: Coverage for bodily injury or property damage arising out of goods or products manufactured, sold, handled, or distributed by the Contractor and/or arising out of operations that have been completed by the Contractor.
 - (d) Personal Injury: While not limited to, the coverage must include Violation of Privacy, Libel and Slander, False Arrest, Detention or Imprisonment and Defamation of Character.
 - (e) Cross Liability/Separation of Insureds: Without increasing the limit of liability, the policy must protect all insured parties to the full extent of coverage provided. Further, the policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.
 - (f) Blanket Contractual Liability: The policy must, on a blanket basis or by specific reference to the Contract, extend to assumed liabilities with respect to contractual provisions.
 - (g) Employees and, if applicable, Volunteers must be included as Additional Insured.
 - (h) Employers' Liability (or confirmation that all employees are covered by Worker's compensation (WSIB) or similar program)
 - (i) Broad Form Property Damage including Completed Operations: Expands the Property Damage coverage to include certain losses that would otherwise be excluded by the standard care, custody or control exclusion found in a standard policy.

- (j) Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of policy cancellation.
- (k) If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.

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ANNEX C

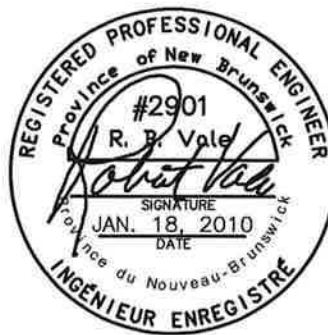
SPECIFICATION

PWGSC	List of Contents	Section 00 01 11
Floating Wharves		Page 1
Various Locations, NB		2010-01-18

<u>Section</u>	<u>Title</u>	<u>Pages</u>
<u>Division 01 - General Requirements</u>		
01 00 10	General Instructions	7
<u>Division 05 - Metals</u>		
05 55 50	Miscellaneous Fabrications	6
<u>Division 06 - Wood, Plastics, and Composites</u>		
06 30 00	Treated Dimension Timber	5

Drawings

W1 of W2	Plan, Section and Details	April 2009
W2 of W2	Section and Details	April 2009



PART 1 - GENERAL

- 1.1 Standing Offer .1 The standing Offer will be valid for the Province of New Brunswick for a period of 2 years.
- .2 The Department reserves the right to award the standing offer contract to more than one Contractor and to call up services from the second or other bidders.
- .3 In the calling up of services, the selection of the Contractor will be based on the most favourable option, (i.e total cost of project), to the Crown, based on the unit prices submitted from the Contractors.
- 1.2 Description of Work .1 The work in general will include all labour and material to build, transport and unload each floating wharf module on land at the location that will be specify on each individual call-up. The locations could be any Public Wharves along the East Coast of New Brunswick.
- 1.3 Work Schedule .1 The Contractor will, immediately upon award of a contract through a call-up, ensure that he will meet each individual call-up delivery date which will be a maximum of 8 weeks.
- .2 The Contractor will take into account the winter conditions under which the part of the contract will or could be performed and will be responsible for snow removal to reach the receiving area which will be on land at one of the public wharves.
- 1.4 Measurement for Payment .1 Notify Engineer sufficiently in advance of operation to permit required measurements and inspection prior to payment.
- .2 The schedule and terms of payment are described in the Standing Offer agreement.
-

1.5 Codes and Standards

- .1 Perform work in accordance with National Building Code of Canada (NBC) and any other code of provincial or local application provided that in any case of conflict or discrepancy, the more stringent requirements shall apply.
- .2 Meet or exceed requirements of specified standards, codes and referenced documents.
- .3 Whenever reference is made to standard specifications it will be considered the latest publication of that specification as of the time of advertisement of tenders except where specified otherwise.
- .4 The abbreviations of the following standards have been used in this specification. The most stringent applicable requirements of these will govern the work except where specified otherwise.

	Materials
CAN.	Canada
A.A.S.H.T.O.	American Association of State Highway and Transportation Officials
A.C.I.	American Concrete Institute
C.G.S.B.	Canada Government Specification Board
C.S.A.	Canadian Standards Association
H.T.	High Tide Mean
H.H.W.L.T.	Highest High Water Large Tide
N.B.C.	National Building Code of Canada

1.6 Co-operation and Assistance to Engineer

- .1 Co-operate with Engineer on inspection of work and provide any assistance required.
- .2 On request of Engineer, furnish use of equipment, labour and materials forming ordinary and usual part of operations as may be reasonably necessary to inspect the work.

1.7 Taxes

- .1 Pay applicable Federal, Provincial and Municipal taxes. Please refer to Instructions to Bidders regarding the inclusion of the Harmonized Sale Tax with the tender. Follow tender documents instruction in regards to the HST.

- | | | |
|------------------------------------|----|---|
| 1.8 Fees, Permits and Certificates | .1 | Provide authorities having jurisdiction with information requested. |
| | .2 | Pay fees and obtain certificates and permits required by authorities having jurisdiction over work. |
| | .3 | Furnish certificates and permits with materials. |
| 1.9 Alternate Products | .1 | The PWGSC floating wharf design that forms part of this specification can be used as a performance product specification. Contractor requesting to bid using an alternate product or alternate design shall ensure that the proposed product is equivalent or better than the product specified and certify that his design is equivalent. The department will be the sole judge in accepting or rejecting an alternate design. All alternate designs must meet the overall dimensions as indicated in the plans and specifications. |
| | .2 | Any design changes or modifications will have to be done at the contractor's expense. |
| | .3 | Allow a minimum of 10 working days before tender close for the department to evaluate any alternative products or design. |
| | .4 | The proposed floating wharves have been designed for the use and with consultation with the commercial fishery industry. Typical fishing boats up to 15 m would be using the facility. Up to a maximum of 3 boats abreast can be expected to be tied to the floating wharves. No electrical or mechanical services are required with the docks under this standing offer. |
| | .5 | The following are the minimal performance specification for all alternate products: <ul style="list-style-type: none"> .1 Product Life: all products must have a minimal service life of 20 years. .2 Floatation : All floatation products must be resistant to ice , sea water, petroleum products and UV stabilized. .3 Live surface loading will be minimum 1.44 kPa, (30 PSF). .4 Freeboard: Minimum: 350 mm. .5 Dock surface: smooth dock surface such as dressed wood decking with a minimum flat surface sideboard of 300 mm in height. |

- | | | |
|------------------------------------|----|--|
| 1.9 Alternate Products
(Cont'd) | .5 | (Cont'd)
.6 Boat tying apparatus: use a continuous tying metal apparatus or cleats every 1.5 meters on each side of the wharves. Design tying apparatus to meet requirements of commercial fishing fleets.
.7 Each wharf will be equipped for a structural steel anchoring system at every 1.5 metres, (each side), to be adapted for chains and concrete blocks. The chains and concrete blocks will be supplied by Others.
.8 A continuous foot rail will be installed along both sides of all wharf modules. End wharves will be equipped with the foot rails at the end also.
.9 Use appropriate CSA standards for products and for fabrication for wharves in a marine environment. |
| 1.10 On-Site Installation | .1 | The on-site installation is not included as part of this contract. This will be done by Others. |
| | .2 | Contractors to include the delivery cost and unloading cost to any site in the Province of New Brunswick. |
| | .3 | For each call-up, a site plan will be provided and some minor modification in regards to the exact location of the anchoring component of each dock may be required. |
| | .4 | The delivery site will be identified on each individual call-up. |
| 1.11 Shop Drawings | .1 | General:
.1 Submit to Engineer, for review, shop drawings, product data and samples for all materials being used in the construction of the floating wharves.
.2 Drawings to be originals prepared by Contractor, subcontractor, supplier or distributor, which illustrates appropriate portion of work, showing fabrication, layout, setting or erection details as specified in the appropriate sections.
.3 Identify details by reference to sheet and detail numbers shown on contract drawings.
.4 Maximum sheet size: 850 mm x 1120 mm. |

1.11 Shop Drawings .2
(Cont'd)

Product Data:

.1 Certain specification sections may specify that manufacturer's standard schematic drawings, catalogue sheets, diagrams, schedules, performance charts, illustrations and other standard descriptive data will be accepted in lieu of shop drawings.

.2 Above will only be accepted if they conform to the following:

.1 Delete information which is not applicable to this project.

.2 Supplement standard information to provide additional information applicable to project.

.3 Show dimensions and clearances required.

.3 Samples and Mockups:

.1 Submit samples in sizes and quantities specified.

.2 Construct each sample or mockup complete, including work of all trades required to finish work.

.3 Construct field samples and mockups at locations acceptable to Engineer.

.4 Reviewed samples or mockups will become standards of workmanship and material against which installed work will be checked on project.

.4 Coordination of submission:

.1 Review shop drawings and product data prior to submission.

.2 Verify:

.1 Field measurements.

.2 Field construction criteria.

.3 Catalogue numbers and similar data.

.3 Coordinate each submission with requirements of work and contract documents.

.4 Contractor's responsibility for deviations in submission from requirements of contract document is not relieved by Engineer's review of submission unless Engineer gives written acceptance of specified deviations.

.5 Notify Engineer, in writing, at time of submission of deviations from requirements of contract documents.

.6 After Engineer's review, distribute copies.

.5 Submission Requirements

.1 Schedule submissions at least seven (7) days before dates reviewed submissions will be needed.

1.11 Shop Drawings .5
(Cont'd)

(Cont'd)

- .2 Submit number of opaque diazo copies of shop drawings, product data which Contractor requires for distribution plus four (4) copies which will be retained by Engineer.
- .3 Accompany submissions with transmittal letter, in duplicate, containing:
 - .1 Data.
 - .2 Project title and number.
 - .3 Contractor's name and address.
 - .4 Number of each shop drawing, product data and sample submitted.
 - .5 Other pertinent data.
- .4 Submissions shall include:
 - .1 Original and/revision dates.
 - .2 Project title and number.
 - .3 Name of:
 - .1 Contractor
 - .2 Subcontractor
 - .3 Supplier
 - .4 Manufacturer
 - .5 Separate detail
 - .5 Identification of product or material.
 - .6 Relation to adjacent structure or materials.
 - .7 Field dimensions, clearly identified as such.
 - .8 Specification Section number.
 - .9 Applicable standards, such as CSA or CGSB numbers.
 - .10 Contractor's stamp, initialed or signed, certifying review of submission, verification of field measurements and compliance with Contract documents.
- .6 Shop Drawings Review:
 - .1 Review of shop drawings by Public Works and Government Services Canada or its authorized consultant is for the sole purpose of ascertaining confirmation with the general concept. This review shall not mean that Public Works and Government Services Canada approves the detail design inherent in the shop drawings, responsibility for which shall remain with Contractor submitting same, and such review shall not relieve Contractor of responsibility for errors or omissions in the shop drawings or of responsibility for meeting all requirements of the construction and contract documents. Without restricting the generality of the foregoing, the Contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication process or to techniques of construction and

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1.11 Shop Drawings .6 Shop Drawings Review: (Cont'd)
 (Cont'd) .1 (Cont'd)
 installation and for coordination of work of
 all sub-trades.

PART 1 - GENERAL

- 1.1 Description .1 The work under this section includes the supply, fabrication and installation of all steel components and HDPE pipe and polystyrene infill, rubber connectors for the floating wharves, including fasteners, miscellaneous bolts, nuts, washers, plates, angles, foot rails, and related metal parts required to complete the work.
- 1.2 Related Sections .1 Section 06 30 00 Treated Dimension Timber
- 1.3 References .1 American Society for Testing and Materials (ASTM).
.1 ASTM A123/A123M, Specification for Zinc (Hot-Dip Galvanized) coating on Iron and Steel Products.
.2 ASTM A307-92a, Specification for Carbon Steel Bolts and Studs, 414 MPa Tensile.
.3 ASTM A325M-91c, Specification for Structural Bolts, Steel, Heat-Treated, Minimum Tensile Strength, Fu=825 MPa.
.4 ASTM F2620-06, Practice for Heat Fusion Joining of Polyethylene Pipe and Fittings.
- .2 Canadian Standards Association (CSA)
.1 CSA-G40.20/G40.21-04, General Requirements for Rolled or Welded Structural Quality Steels.
.2 CAN/CSA-S16-01, Limit States Design of Steel Structures.
.3 CSA-W47.1-03, Certification of Companies for Fusion Welding of Steel Structures.
.4 CSA-W48-06, Filler Metals and Allied Metals for Metal Arc Welding.
.5 CSA-W55.3 1965 (R2003), Resistance Welding Qualification Code for Fabricators of Structural Members Used in Buildings.
.6 CSA-W59-03, Welded Steel Construction.
- 1.4 Source Quality Control .1 Supply proof that fabrication shop in which this work is to be constructed is currently certified by the Canadian Welding Bureau to the requirements of the above.
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1.4 Source Quality Control (Cont'd) .2 Identify all welding personnel to be used in the fabrication of this work, together with proof of their current welding qualifications and certification under the Canadian Welding Bureau.

.3 **Information requested under articles .1 and .1 above is to be supplied with tender documents.**

1.5 Shop Drawings .1 Submit shop drawings and submittals in accordance with Section 01 00 10.

.2 Provide information on all metal, pipe, rubber and polystyrene foam products, and fasteners.

.3 Indicate materials, core thicknesses, finishes, connections, joints, method of anchorage, number of anchors, supports, reinforcement, details and accessories.

.4 Completely detail items indicating all dimensions, thicknesses, gauges of metals and fasteners.

.5 Each shop drawing submittal shall bear the stamp and signature of a qualified Professional Engineer registered in the Province of New Brunswick.

1.6 Transporting Storage and Handling .1 Exercise care in storing, transporting, handling and erecting all material and support all materials properly at all times so that no piece will be bent, twisted or otherwise damaged structurally or visually.

.2 Correct damaged material and, where damage is deemed irreparable by the Engineer, replace the affected item at no additional expense to the Owner.

.3 Fabricate large assemblies so they can be safely and easily handled to their place of installation in the work.

.4 Store assemblies above ground and so as not to be damaged.

PART 2 - PRODUCTS

- 2.1 Materials
- .1 Steel plate and angles: to CSA-G40.20/G40.21 Grade 300W.
 - .2 Welding materials: to CSA W59.
 - .3 Galvanizing: hot-dipped galvanizing with zinc coating, minimum 600 g/m² to ASTM A123/A123M, Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
 - .4 Cold applied zinc for touch-up of scratched surfaces: Zinga or approved alternate.
 - .5 Rubber Units for Inter-float Connectors: 178 mm x 254 mm x 200 mm marine engineered rubber.
Weight: 57.3 kg/m;
Reaction: 119 tonne/m;
Energy: 4.5 tonne m/m
 - .6 Foam: Solid polystyrene round foam cylinders that fit snugly inside and fully fill the plastic pipe, or a 2 part expandable foam that will be injected inside the pipe to fully fill the inside cavity. Minimum buoyancy 8.6 kN/m³, (55 lb/ft³).
 - .7 Smooth High Density Polyethylene (HDPE): to CSA-B182.6.
 - .1 180 kPa pipe stiffness.
 - .2 Sewer class.
 - .3 Fusion (non-gasket) coupling system.
 - .4 Continuous length as specified on drawings.
 - .5 Provide flat stock material for end caps to match pipe specifications.
- 2.2 Bolts, Nuts and Washers
- .1 Carriage bolts, nuts and washers shall be in accordance with the latest edition of ASTM A307, unless otherwise indicated or approved.
 - .2 All bolts for connections of steel framing for the floating wharf module shall be to ASTM A325.
 - .3 Carriage bolts shall have round, concave heads.

- 2.2 Bolts, Nuts and Washers
(Cont'd)
- .4 Structural bolts shall have standard heads.
 - .5 Structural Bolts shall have national coarse thread with allowance for hot-dipped galvanizing.
 - .6 Structural Bolts shall be supplied with heavy duty nuts to ASTM A563 Grade A, and washer to AISI 1010/1020.
 - .7 When in position, bolts will be of sufficient length to permit a full nut and two washers.
 - .8 Plate washers shall be to CSA Standard G40.21, minimum 4 mm thick, size as indicated, drilled to suit the bolt diameter with suitable allowance for galvanizing.
- 2.3 Finishes
- .1 Galvanizing: with the exception of stainless steel fabrications and fasteners, all metal fabrications, washers, bolts, etc. shall be hot dipped galvanized with zinc coating, (600 g/m²).
 - .2 Zinc primer: zinc rich, ready mix to CAN/CGSB-1.181, purpose made for field touch-up. To match hot-dip galvanized finish.
- 2.4 Floating Module Identification
- .1 Each wharf module to be provided with raised bead of weld, 50 mm letter height, raised 2 mm, or die-stamped, indicating date of manufacture, and Contractor's float identification number, as directed by Engineer.
 - .2 Location of lettering to be on exposed surface of one end cross-frame member of each wharf module.
- 2.5 Metal Fabrication
- .1 Build work square, true, straight and accurate to required size, with joints closely fitted and properly secured.
 - .2 Fabricate items from steel unless otherwise noted.
 - .3 Where possible, fit and shop assemble work, ready for installation.
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| 2.5 Metal
Fabrication
(Cont'd) | .4 | Ensure exposed welds are continuous for length of each joint. |
| | .5 | Where not otherwise indicated, all joints to be seal welded with minimum 3 mm continuous welds. |
| | .6 | Provide for extra thickness of galvanized bolts when drilling holes in connection plates and framing members. |

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| 2.6 Heat Fusion
Welding of HDPE | .1 | All heat fusion welding of the HDPE end caps to the HDPE pipe pontoons shall be performed by an experienced HDPE product manufacturer's certified installer. The HDPE product manufacturer must have written welding and certification guidelines that are the basis for training and certification. All pontoon fabrication and welding shall conform to these guidelines. |
| | .2 | Heat fusion welding procedures to be in accordance with ASTM F2620. |

PART 3 - EXECUTION

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| 3.1 General | .1 | Do metal fabrication work in accordance with CAN/CSA-S16. |
| | .2 | Do welding in accordance with CSA W59. |
| | .3 | Companies to be certified under Division 1 or 2.1 of CSA-W-47.1 for fusion welding and/or CSA-W55.3 for resistance welding. |
| 3.2 Floating Wharf
Fabrication and
Assembly | .1 | Build assemblies square, plumb, straight and true, accurately fitted, with tight joints and intersections. |
| | .2 | Do welding in accordance with CSA W59 unless specified otherwise. |
| | .3 | Floating wharf modules shall be fully assembled in the shop prior to transportation to the site. |
| | .4 | Touch-up bolts and scratched surfaces after completion of erection with cold-applied zinc. |

- 3.3 Installation of Carriage and Machine Bolts, Nuts and Washers
- .1 Countersink bolt heads and washers only where indicated on drawings.
 - .2 Install plate washers under the heads of all bolts bearing on wood surfaces.
 - .3 Install lock washers under the nuts of all bolts bearing on steel.
 - .4 Holes for bolts in wood shall be bored to the same diameter as that of the bolts.

- 3.4 Handling Galvanized Parts
- .1 Take necessary care in the handling, packing and shipping of all galvanized steel members to prevent damage to the galvanized coating. Evidence of damage to the galvanized members due to mishandling or lack of adequate protection shall be cause for rejection of the damaged members if requested by the Engineer. If not rejected, touch up galvanized surfaces with cold-applied zinc where damaged.

PART 1 - GENERAL

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| <u>1.1 Related Sections</u> | .1 | Section 05 55 50 Miscellaneous Fabrications. |
| <u>1.2 References</u> | .1 | Canadian Standards Association (CSA) |
| | .1 | CAN/CSA-0141-05, Softwood Lumber. |
| | .2 | CSA 080-07 Series, Wood Preservation. |
| | .2 | National Lumber Grading Authority (NLGA) |
| | .1 | NLGA-2003, Standard Grading Rules for Canadian Lumber 2003. |
| | .3 | American Wood-Preservers' Association (AWPA) |
| | .1 | Book of Standards (2007). |
| <u>1.3 Quality Assurance</u> | .1 | Lumber identification: by grade stamp of an agency certified by Canadian Lumber Standards Accreditation Board. |
| <u>1.4 Source Quality Control</u> | .1 | The Contractor shall submit, for approval to the Engineer, the location of the Wood Preserving Plant at which the dimension timber is to be treated. This submission shall be within seven (7) days of award or call-up. |
| | .2 | The Contractor shall facilitate the inspection of the process by the Engineer and, notwithstanding the Contractor's notice of treatment and whether or not the process is inspected by a representative of the Engineer at the time and place of treatment, the Engineer reserves the right to reject, at the point of delivery, any or all timber that does not meet the requirements of the specification. |
| | .3 | Ordering of material is to follow the requirements of the contract such that field cutting of treated material is essentially avoided and is used as a last resort and only if authorized by the Engineer. |
| | .4 | Wood Preserving Plant shall |
| | .1 | Follow the requirements for quality control procedures outlined in CSA-080.M-02. |

- 1.4 Source Quality .4 (Cont'd)
- Control
(Cont'd)
- .2 Carry out inspection of all treated timber to AWPA M2-07 and supplementary requirements as per Clause 7 of CSA-080.0-07.
- .5 For all products treated with preservatives by pressure impregnation, reports shall be provided to the Engineer at no cost containing all applicable information outlined in Part 7 of AWPA M2-07.
- .1 Results of treatment of each and every charge is required.
- .2 Retention analysis shall be by the assay method.
- .3 When timber is pressure treated a second time, results of both treatments are required.
- .4 All reports shall be:
- .1 certified by an authorized officer of the treatment plant.
- .2 in the format and the order presented in Part 7 of AWPA M2-02.
- .3 in metric (S.I.) units.
- .6 No treated timber shall be incorporated into the work until all results meet or exceed the requirements specified. No payment will be made for material incorporated into the work until the results are received and approved by the Engineer.

PART 2 - PRODUCTS

- 2.1 Dimension .1
Timber
- Lumber: to CSA 0141, S4S, S-dry moisture content 19% or less to meet requirements of Wood Preserving Plant, grade stamped in accordance with NLGA and scheduled for use as follows:
- .1 Dimension Timber (stringers , fascia boards, decking, and bracing), to be No.1/No.2 grade.
- .2 All dimension timber, including decking, stringers, bracing and fascia boards, will be dressed all four sides to dimensions indicated on drawing.
- 2.2 Preservative .1
Treatments
- Treat to CSA 080-07, commodity standard 080.18-97 Table 1 and 2 and its referenced standards, with the following minimum assay retention.

2.2 Preservative .1 (Cont'd)
Treatments
(Cont'd)

SPECIES	Retention	
	CCA kg/m ³	ACA kg/m ³
Dimension Timber		
(Fascia, Stringers)		
- Coast Douglas Fir		
- Western/Eastern Hemlock	24	24
(Decking, Cross-bracing)		
- Hemlock, Douglas Fir	6.4	6.4

Note: Creosote is not acceptable.

Dry the decking, stringers and bracing to max. 25% moisture content after treatment.

- 2.3 Accessories .1 Wood screws: to be AISI Type 316 Stainless Steel. Gauge and length as indicated and to suit application.
- .2 Stainless Steel Strap Hinges: Marine grade, heavy duty, electropolished, 18-8 alloy, 16 gauge, 150 by 38 mm open size. Supply complete with #8 by 38 long stainless steel wood screws.
- .3 Peel-and-stick rubber membrane. Thermoplastic polyolefin membrane complete with pre-applied adhesive and tape. Geoflex TPO, or approved alternate.

PART 3 - EXECUTION

- 3.1 Installation
- .1 Install wood members true to line, levels and elevations, square and plumb.
 - .2 Construct continuous members from pieces of longest practical length.
 - .3 Install spanning members with "crown-edge" up.
 - .4 Install and secure as indicated on plans using SS Screws and galvanized bolts, nuts, and washers as specified under Section 05 55 50, Miscellaneous Fabrications.
 - .5 Countersink bolts where necessary to provide clearance for other work.
 - .6 Holes for screws to be bored 1.5 mm smaller diameter than screw. Holes for screws to be bored to a depth 50 mm less than its length.
- 3.2 Field Treatment
- .1 The Contractor shall adhere to the following:
 - .1 Handle pressure treated material in a manner that will avoid damage which may expose untreated material. Rejection of any damaged material may result and replacement will be required at the Contractor's expense.
 - .2 Fill all bolt holes with preservative immediately after boring. Use a pressurized container with hose to apply preservative, or some alternate method acceptable to the Engineer.
 - .3 Fill all unused bored holes and spike or screw holes with tight fitting treated wooden plugs.
- 3.3 Cutting
- .1 Field cuts, if authorized by the Engineer, are to receive three (3) liberal coats of the applicable preservative applied to dry wood on each application.
- 3.4 Field Quality
- .1 Timber which contains rot, splits exposing untreated wood, excessive wane, or timbers which cannot be fastened in the work so as to be structurally sound or if, in the opinion of

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- 3.4 Field Quality .1 (Cont'd)
(Cont'd) the Engineer, will not last the life of the unit, are unacceptable.
- .2 The Engineer reserves the right to carry out field testing of treated timber for penetration and retention of preservative. Timber not meeting the requirements of the specification may be rejected for use under the contract.