

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:

Bid Receiving Box/Boîte de Réception des Soumissions

1st Floor/1ière étage, Suite 1212

100-1045 Main Street

Moncton

New Brunswick

E1C 1H1

Bid Fax: (506) 851-6759

Request For a Standing Offer Demande d'offre à commandes

National Master Standing Offer (NMSO)

Offre à commandes principale et nationale (OCPN)

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

Acquisitions NB/PEI (Moncton Office) – Bureau

d'acquisitions N.-B./Î.-P.-É. (Moncton)

1045 Main Street / 1045, rue Main

Moncton

New Bruns

E1C 1H1

Title - Sujet RISO Minor Works, Harbours South NB	
Solicitation No. - N° de l'invitation F5403-210001/A	Date 2021-11-17
Client Reference No. - N° de référence du client F5403-210001	GETS Ref. No. - N° de réf. de SEAG PW-\$PWJ-005-6077
File No. - N° de dossier PWJ-1-44012 (005)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM Atlantic Standard Time AST on - le 2021-12-09 Heure Normale de l'Atlantique HNA	
Delivery Required - Livraison exigée See Herein – Voir ci-inclus	
Address Enquiries to: - Adresser toutes questions à: Lomax (PWJ), Sandra	Buyer Id - Id de l'acheteur pwj005
Telephone No. - N° de téléphone (506)639-8503 ()	FAX No. - N° de FAX (506)851-6759
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF FISHERIES AND OCEANS 99 MOUNT PLEASANT RD P.O.BOX 1009 ST GEORGE New Brunswick E5C3S9 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

Solicitation No. - N° de l'invitation
F5403-210001/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteu
PWJ005

Client Ref. No. - N° de réf. du client
F5403-21001

File No. - N° du dossier

CCC No./N° CCC - FMS No./N° VME

REQUEST FOR STANDING OFFER (RFSO)

Minor Works, Small Craft Harbors Southwest, NB

IMPORTANT NOTICE TO OFFERORS

SI09 COVID-19 Vaccination Requirement and Certification has been added

SC03 Compliance with on-site measures, standing orders, policies, and rules has been added

APPENDIX 5 - COVID-19 Vaccination Requirement Certification has been added

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GENERAL INSTRUCTIONS TO OFFERORS – CONSTRUCTION SERVICES (GI)

GI01 (2016-04-04) Integrity provisions—Offer

1. The *Ineligibility and Suspension Policy* (the “Policy”) in effect on the date the offer solicitation is issued, and all related Directives in effect on that date, are incorporated by reference into, and form a binding part of the offer solicitation. The Offeror must comply with the Policy and Directives, which can be found at *Ineligibility and Suspension Policy*.
2. Under the Policy, charges and convictions of certain offences against a Offeror, its affiliates or first tier subcontractors, and other circumstances, will or may result in a determination by Public Works and Government Services Canada (PWGSC) that the Offeror is ineligible to enter, or is suspended from entering into a contract with Canada. The list of ineligible and suspended Suppliers is contained in PWGSC’s Integrity Database. The Policy describes how enquiries can be made regarding the ineligibility or suspension of Suppliers.
3. In addition to all other information required in the offer solicitation, the Offeror must provide the following:
 - a. by the time stated in the Policy, all information required by the Policy described under the heading “Information to be Provided when Offering, Contracting or Entering into a Real Property Agreement”; and
 - b. with its offer, a complete list of all foreign criminal charges and convictions pertaining to itself, its affiliates and its proposed first tier subcontractors that, to the best of its knowledge and belief, may be similar to one of the listed offences in the Policy. The list of foreign criminal charges and convictions must be submitted using an Integrity Declaration Form, which can be found at Declaration form for procurement.
4. Subject to subsection 5, by submitting an offer in response to this offer solicitation, the Offeror certifies that:
 - a. it has read and understands the *Ineligibility and Suspension Policy*;
 - b. it understands that certain domestic and foreign criminal charges and convictions, and other circumstances, as described in the Policy, will or may result in a determination of ineligibility or suspension under the Policy;
 - c. it is aware that Canada may request additional information, certifications, and validations from the Offeror or a third party for purposes of making a determination of ineligibility or suspension;
 - d. it has provided with its offer a complete list of all foreign criminal charges and convictions pertaining to itself, its affiliates and its proposed first tier subcontractors that, to the best of its knowledge and belief, may be similar to one of the listed offences in the Policy;
 - e. none of the domestic criminal offences, and other circumstances, described in the Policy that will or may result in a determination of ineligibility or suspension, apply to it, its affiliates and its proposed first tier subcontractors; and
 - f. it is not aware of a determination of ineligibility or suspension issued by PWGSC that applies to it.
5. Where an Offeror is unable to provide any of the certifications required by subsection 4, it must submit with its offer a completed Integrity Declaration Form, which can be found at Declaration form for procurement.
6. Canada will declare non-responsive any offer in respect of which the information requested is incomplete or inaccurate, or in respect of which the information contained in a certification or declaration is found by Canada to be false or misleading in any respect. If Canada establishes after award of the Contract that the Offeror provided a false or misleading certification or declaration, Canada may terminate the Contract for default. Pursuant to the Policy, Canada may also determine the Offeror to be ineligible for award of a contract for providing a false or misleading certification or declaration.

GI02 (2014-03-01) Completion of offer

1. The offer shall be

- a. submitted on the Offer and Acceptance Form provided through the Government Electronic Tendering Service (GETS) or on a clear and legible reproduced copy of such Offer and Acceptance Form that must be identical in content and format to the Offer and Acceptance Form provided through GETS;
 - b. based on the Offer Documents listed in the Special Instructions to Offerors;
 - c. correctly completed in all respects;
 - d. signed by a duly authorized representative of the Offeror; and
 - e. accompanied by
 - i. any other document or documents specified elsewhere in the solicitation where it is stipulated that said documents are to accompany the offer.
2. Subject to paragraph 6) of GI11, any alteration to the pre-printed or pre-typed sections of the Offer and Acceptance Form, or any condition or qualification placed upon the offer may be cause for disqualification. Alterations, corrections, changes or erasures made to statements or figures entered on the Offer and Acceptance Form by the Offeror shall be initialed by the person or persons signing the offer. Alterations, corrections, changes or erasures that are not initialed shall be deemed void and without effect.
3. Unless otherwise noted elsewhere in the Offer Documents, facsimile copies of offers are not acceptable.
4. Canada will make available Notices of Proposed Procurement (NPP), offer solicitations and related documents for download through the Government Electronic Tendering Service (GETS). Canada is not responsible and will not assume any liabilities whatsoever for the information found on websites of third parties. In the event an NPP, offer solicitation or related documentation would be amended, Canada will not be sending notifications. Canada will post all amendments, including significant enquiries received and their replies, using GETS. It is the sole responsibility of the Offeror to regularly consult GETS for the most up-to-date information. Canada will not be liable for any oversight on the Offeror's part nor for notification services offered by a third party.

GI03 (2015-02-25) Identity or legal capacity of the Offeror

In order to confirm the authority of the person or persons signing the offer or to establish the legal capacity under which the Offeror proposes to enter into Contract, any Offeror who carries on business in other than its own personal name shall, if requested by Canada, provide satisfactory proof of

- a. such signing authority; and
- b. the legal capacity under which it carries on business;

prior to contract award. Proof of signing authority may be in the form of a certified copy of a resolution naming the signatory(ies) that is (are) authorized to sign this offer on behalf of the corporation or partnership. Proof of legal capacity may be in the form of a copy of the articles of incorporation or the registration of the business name of a sole proprietor or partnership.

GI04 (2015-02-25) Applicable Taxes

"Applicable Taxes" means the Goods and Services Tax (GST), the Harmonized Sales Tax (HST), and any provincial tax, by law, payable by Canada such as, the Quebec Sales Tax (QST) as of April 1, 2013.

GI05 Listing of Subcontractors/Supplier

(Applicable on call-ups)

The Offeror must submit the names of Subcontractors/Supplier for the part or parts of the Work listed. See ANNEX C. Failure to do so will result in the disqualification of its bid.

GI06 (2014-03-01) Submission of offer

1. Canada requires that each offer, at solicitation closing date and time or upon request from the Contracting Authority, be signed by the Offeror or by an authorized representative of the Offeror.

2. It is the Offeror's responsibility to:

- a. submit an offer, duly completed, in the format requested, on or before the solicitation closing date and time set;
- b. In the case of submission by epost Connect, see instructions in GI06.2.ii below.
- c. obtain clarification of the requirements contained in the RFSO, if necessary, before submitting an offer;
- d. ensure that the Offeror's name, return address, the solicitation number and description, and solicitation closing date and time are clearly visible on the submission containing the Offer; and
- e. provide a comprehensive and sufficiently detailed Offer that will permit a complete evaluation in accordance with the criteria set out in this RFSO.
- f. send its Offer only to the Bid Receiving Unit of Public Works and Government Services Canada (PWGSC) specified below, by the date and time indicated on page 1 of the offer solicitation, either by delivering a hard copy or electronic ePost Connect submission as follows:

HARD COPY Offer Submission

In the case of submission of a hard copy offer, send its offer only to:

**Bid Receiving Box
Public Works and Government Services Canada
1st Floor, Suite 1212
100-1045 Main Street
Moncton, NB E1C 1H1
FACSIMILE NUMBER – (506) 851-6759**

i. ELECTRONIC Offer Submission by epost Connect service

- a. Unless specified otherwise in the solicitation, offers may be submitted by using the epost Connect service provided by Canada Post Corporation.
- b. The only acceptable email address to use with epost Connect for responses to solicitation issued by PWGSC is:

Atlantic(N.B/PEI): TPSGC.RARceptionSoumisNBPE-ARBidReceivingNBPE.PWGSC@tpsgc-pwgsc.gc.ca

Note: Offers will not be accepted if emailed directly to this email address. This email address is to be used to open an epost Connect conversation, as detailed in c., or to send offers through an epost Connect message if the Offeror is using its own licensing agreement for epost Connect.

- c. To submit an offer using epost Connect service, the Offeror must either:
 - i. send directly its offer only to the specified PWGSC Bid Receiving Unit, using its own licensing agreement for epost Connect provided by Canada Post Corporation; or
 - ii. send as early as possible, and in any case, at least six business days prior to the solicitation closing date and time, (in order to ensure a response), an email that includes the offer solicitation number to the specified PWGSC Bid Receiving Unit requesting to open an epost Connect conversation. Requests to open an epost Connect conversation received after that time may not be answered.
- d. If the Offeror sends an email requesting epost Connect service to the specified Bid Receiving Unit in the solicitation, an officer of the Bid Receiving Unit will then initiate an epost Connect conversation. The epost

Connect conversation will create an email notification from Canada Post Corporation prompting the Offeror order to access and action the message within the conversation. The Offeror will then be able to transmit its offer afterward at any time prior to the solicitation closing date and time.

- e. If the Offeror is using its own licensing agreement to send its offer, the Offeror must keep the epost Connect conversation open until at least thirty (30) business days after the solicitation closing date and time.
 - f. The solicitation number should be identified in the epost Connect message field of all electronic transfers.
 - g. It should be noted that the use of epost Connect service requires a Canadian mailing address. Should an Offeror not have a Canadian mailing address, they may use the Bid Receiving Unit address specified in the solicitation in order to register for the epost Connect service.
 - h. For offers transmitted by epost Connect service, Canada will not be responsible for any failure attributable to the transmission or receipt of the offer including, but not limited to, the following:
 - i. receipt of a garbled, corrupted or incomplete offer;
 - ii. availability or condition of the epost Connect service;
 - iii. incompatibility between the sending and receiving equipment;
 - iv. delay in transmission or receipt of the offer;
 - v. failure of the Offeror to properly identify the offer;
 - vi. illegibility of the offer;
 - vii. security of offer data; or,
 - viii. inability to create an electronic conversation through the epost Connect service.
 - i. The Bid Receiving Unit will send an acknowledgement of the receipt of offer document(s) via the epost Connect conversation, regardless of whether the conversation was initiated by the Offeror using its own license or the Bid Receiving Unit. This acknowledgement will confirm only the receipt of offer document(s) and will not confirm if the attachments may be opened nor if the content is readable.
 - j. Offerors must ensure that they are using the correct email address for the Bid Receiving Unit when initiating a conversation in epost Connect or communicating with the Bid Receiving Unit and should not rely on the accuracy of copying and pasting the email address into the epost Connect system.
 - k. A offer transmitted by epost Connect service constitutes the formal offer of the Offeror.
1. The technical and price components of the offer must be submitted in separate sections as follows:
- a. The offer should be submitted following a "two-section" procedure of which is to include a technical and financial offer.
 - b. The Technical Offer, and any associated document(s), should be provided in a separate section with the following information clearly provided:
 - Section One - Technical Offer;
 - Solicitation Number; and
 - Name of Offeror.
 - c. The Price Proposal Form and associated document(s), the Financial Offer, should be provided in a separate section with the following information clearly provided:
 - Section Two - Financial Offer;
 - Solicitation Number; and
 - Name of Offeror.

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2. Timely and correct delivery of offers to the office designated for receipt of offers is the sole responsibility of the Offeror. PWGSC will not assume or have transferred to it those responsibilities. All risks and consequences of incorrect delivery of offers are the responsibility of the Offeror.
 3. Offers and supporting information may be submitted in either English or French.
 4. Unless otherwise specified in the Special Instructions to Offerors:
 - a. the offer shall be in Canadian currency; and
 - b. the requirement does not offer exchange rate fluctuation risk mitigation. Requests for exchange rate fluctuation risk mitigation will not be considered. All offers including such provision will render the offer non-responsive.
 3. Offers received by fax will be accepted as official and must meet the following requirements
 - a. Must be completed on the Price Proposal Form
 - b. Must indicate
 - Request for standing offer number
 - Solicitation number
 - Offeror's name
 - Closing Date and Time
 - c. Must be received before offer closing time at fax number (506) 851-6759.

GI07 (2010-01-11) Revision of offer

1. An offer submitted in accordance with these instructions may be revised by letter, epost Connect or facsimile provided the revision is received at the office designated for the receipt of offers, on or before the date and time set for the closing of the solicitation. The letter or facsimile shall be on the Offeror's letterhead or bear a signature that identifies the Offeror.
2. A revision to an offer that includes unit prices must clearly identify the change(s) in the unit price(s) and the specific item(s) to which each change applies.
3. A letter or facsimile submitted to confirm an earlier revision should be clearly identified as a confirmation.
4. Failure to comply with any of the above provisions may result in the rejection of the non-compliant revision(s) only. The offer shall be evaluated based on the original offer submitted and all other compliant revision(s).

GI08 (2014-09-25) Rejection of offer

1. Canada may accept any offer, whether it is the lowest or not, or may reject any or all offers.
2. Without limiting the generality of paragraph 1) of GI11, Canada may reject an offer if any of the following circumstances is present:
 - a. the Offeror's offering privileges are suspended or are in the process of being suspended;
 - b. the offering privileges of any employee or subcontractor included as part of the offer are suspended or are in the process of being suspended, which suspension or pending suspension would render that employee or subcontractor ineligible to offer on the Work, or the portion of the Work the employee or subcontractor is to perform;
 - c. the Offeror is bankrupt, or where for whatever reason, its activities are rendered inoperable for an extended period;

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- d. evidence, satisfactory to Canada, of fraud, bribery, fraudulent misrepresentation or failure to comply with any law protecting individuals against any manner of discrimination, has been received with respect to the Offeror, any of its employees or any subcontractor included as part of its offer;
 - e. evidence satisfactory to Canada that based on past conduct or behavior, the Offeror, a sub-contractor or a person who is to perform the Work is unsuitable or has conducted himself/herself improperly;
 - f. with respect to current or prior transactions with Canada
 - i. Canada has exercised, or intends to exercise, the contractual remedy of taking the work out of the Offeror's hands with respect to a contract with the Offeror, any of its employees or any subcontractor included as part of its offer; or
 - ii. Canada determines that the Offeror's performance on other contracts is sufficiently poor to jeopardize the successful completion of the requirement being offer on.
 3. In assessing the Offeror's performance on other contracts pursuant to subparagraph 2)(f)(ii) of GI11, Canada may consider, but not be limited to, such matters as:
 - a. the quality of workmanship in performing the Work;
 - b. the timeliness of completion of the Work;
 - c. the overall management of the Work and its effect on the level of effort demanded of the department and its representative; and
 - d. the completeness and effectiveness of the Offeror's safety program during the performance of the Work.
 4. Without limiting the generality of paragraphs 1), 2) and 3) of GI11, Canada may reject any offer based on a unfavorable assessment of the;
 - a. adequacy of the offer price to permit the work to be carried out and, in the case of a offer providing prices per unit, whether each such price reasonably reflects the cost of performing the part of the work to which that price applies;
 - b. Offeror's ability to provide the necessary management structure, skilled personnel, experience and equipment to perform competently the work under the Contract; and
 - c. Offeror's performance on other contracts.
 5. Where Canada intends to reject an offer pursuant to a provision of paragraphs 1), 2), 3) or 4) of GI11, other than subparagraph 2)(a) of GI11, the contracting Authority will inform the Offeror and provide the Offeror ten (10) days within which to make representations, before making a final decision on the offer rejection.
 6. Canada may waive informalities and minor irregularities in offers received if Canada determines that the variation of the offer from the exact requirements set out in the Offer Documents can be corrected or waived without being prejudicial to other Offerors.

GI09 (2015-02-25) Offer costs

No payment will be made for costs incurred in the preparation and submission of an offer in response to the offer solicitation. Costs associated with preparing and submitting an offer, as well as any costs incurred by the Offeror associated with the evaluation of the offer, are the sole responsibility of the Offeror.

GI10 (2019-05-30) Procurement Business Number

1. Bidders are required to have a Procurement Business Number (PBN) before Contract award. Bidders may register for a PBN in the Supplier Registration Information system on Web site: <https://buyandsell.gc.ca/for-businesses/selling-to-the-government-of-canada/register-as-a-supplier> . For non-Internet registration, Bidders may contact the nearest Supplier Registration Agent.

GI11 (2013-04-25) Compliance with applicable laws

1. By submission of an offer, the Offeror certifies that the Offeror has the legal capacity to enter into a contract and is in possession of all valid licenses, permits, registrations, certificates, declarations, filings, or other authorizations

necessary to comply with all federal, provincial and municipal laws and regulations applicable to the submission of the offer and entry into any ensuing contract for the performance of the work.

2. For the purpose of validating the certification in paragraph 1) of GI14, a Offeror shall, if requested, provide a copy of every valid license, permit, registration, certificate, declaration, filing or other authorization listed in the request, and shall provide such documentation within the time limit(s) set out in the request.
3. Failure to comply with the requirements of paragraph 2) of GI14 shall result in disqualification of the offer.

GI12 (2010-01-11) Performance evaluation

1. Offerors shall take note that the performance of the Offeror during and upon completion of the work shall be evaluated by Canada. The evaluation shall be based on the quality of workmanship; timeliness of completion of the work; project management, contract management and management of health and safety. Should the Offeror's performance be considered unsatisfactory, the Offeror's offering privileges on future work may be suspended indefinitely.
2. The form PWGSC-TPSGC 2913, SELECT - Contractor Performance Evaluation Report Form, is used to record the performance.

GI13 (2011-05-16) Conflict of interest—unfair advantage

1. In order to protect the integrity of the procurement process, Offerors are advised that Canada may reject an offer in the following circumstances:
 - a. if the Offeror, any of its subcontractors, any of their respective employees or former employees was involved in any manner in the preparation of the offer solicitation or in any situation of conflict of interest or appearance of conflict of interest;
 - b. if the Offeror, any of its subcontractors, any of their respective employees or former employees had access to information related to the offer solicitation that was not available to other Offerors and that would, in Canada's opinion, give or appear to give the Offeror an unfair advantage.
2. The experience acquired by a Offeror who is providing or has provided the goods and services described in the offer solicitation (or similar goods or services) will not, in itself, be considered by Canada as conferring an unfair advantage or creating a conflict of interest. This Offeror remains however subject to the criteria established above.
3. Where Canada intends to reject an offer under this section, the Contracting Authority will inform the Offeror and provide the Offeror an opportunity to make representations before making a final decision. Offerors who are in doubt about a particular situation should contact the Contracting Authority before offer closing. By submitting an offer, the Offeror represents that it does not consider itself to be in conflict of interest nor to have an unfair advantage. The Offeror acknowledges that it is within Canada's sole discretion to determine whether a conflict of interest, unfair advantage or an appearance of conflict of interest or unfair advantage exists.

GI14 (2016-04-04) Code of Conduct for Procurement—offer

The Code of Conduct for Procurement provides that Offerors must respond to offer solicitations in an honest, fair and comprehensive manner, accurately reflect their capacity to satisfy the requirements set out in the offer solicitation and resulting contract, submit offers and enter into contracts only if they will fulfill all obligations of the Contract. By submitting an offer, the Offeror is certifying that it is complying with the *Code of Conduct for Procurement*. Failure to comply with the *Code of Conduct for Procurement* may render the offer non-responsive.

SPECIAL INSTRUCTIONS TO OFFEROR'S (SI)

SI01 INTRODUCTION

1. Public Works and Government Services Canada (PWGSC) is inviting Offerors to submit proposals for Standing Offers. The selected offerors shall provide a range of services as identified in the Statement of Work section of this document.
2. It is PWGSC's intention to authorize up to two (2) Standing Offers, each for a period of two (2) years. The total dollar value of all Standing Offers is estimated to be (\$1,150,00.00) (GST or HST included). Individual call-ups will vary, up to a maximum of (\$100,000.00) (GST or HST included). Offerors should note that there is no guarantee that the full or any amount of the Standing Offers will be called-up; PWGSC will issue call-ups only when the specific services to be provided under the Standing Offer are needed. Please refer to Section SOP04, CALL-UP PROCEDURE..

SI02 OFFER DOCUMENTS

1. The following are the Offer Documents:
 - a. Request for Standing Offer - Page 1;
 - b. General Instructions to Offeror's- Construction Services
 - c. Special Instructions to Offerors;
 - d. Clauses & Conditions identified in "Call-up Clauses or Resulting Contract Documents;
 - e. Drawings and Specifications;
 - f. Price Proposal form and related Appendix(s); and
 - g. Any amendment issued prior to solicitation closing.

Submission of an Offer constitutes acknowledgement that the Offeror has read and agrees to be bound by these documents.

2. Offers received by fax will be accepted as official.

SI03 ENQUIRIES DURING THE SOLICITATION PERIOD

1. Enquiries regarding this Offer must be submitted in writing to the Contracting Authority named on the Request for Standing Offer (RFSO) Page 1 at e-mail address sandra.lomax@tpsgc-pwgsc.gc.ca Enquiries should be received no later than (5) calendar days prior to the date set for solicitation closing to allow sufficient time to provide a response. Enquiries received after that time may result in an answer NOT being provided.
2. To ensure consistency and quality of the information provided to Offerors the Contracting Authority will examine the content of the enquiry and shall decide whether or not to issue an amendment.
3. All enquiries and other communications related to this offer sent throughout the solicitation period must be directed ONLY to the Contracting Authority named in paragraph 1. above. Failure to comply with this requirement may result in the offer being declared non-compliant.

SI04 QUANTITY

The amount of work and estimated expenditure specified in the RFSO are only an approximation of requirements. The making of an offer by the Offeror shall not constitute an agreement by Canada. Canada may make one or several call-ups against a standing offer.

SI05 PWGSC OBLIGATION

A RFSO does not commit PWGSC to authorize the utilization of a standing offer or to pay any cost incurred in the submission of offers, or cost incurred in making necessary studies for the preparation thereof, or to procure or contract for any services. PWGSC reserves the right to reject or authorize for utilization any offer in whole or in part, with or without further discussion or negotiation. Canada reserves the right to cancel or amend the RFSO at any time.

SI06 REVISION OF OFFER

An offer may be revised by letter or facsimile in accordance with "General Instructions to Offerors – Construction Services to Offerors". The facsimile number for receipt of revisions is (506) 851-6759.

SI07 OFFER VALIDITY PERIOD

1. The offer cannot be withdrawn for the period of (60) days following the RFSO closing date.
2. Canada reserves the right to seek an extension to the offer validity period. Upon notification in writing from Canada, Offerors shall have the option to either accept or reject the proposed extension.
3. If the extension referred to in paragraph 2 of SI08 is accepted, in writing, by all those who submitted offers, then Canada shall continue immediately with the evaluation of the offers and its approvals processes.
4. If the extension referred to in paragraph 2 of SI09 is not accepted in writing by all those who submitted offers then Canada shall, at its sole discretion, either
 - a. continue to evaluate the offers of those who have accepted the proposed extension and seek the necessary approvals; or
 - b. cancel the request for proposal.
5. The provisions expressed herein do not in any manner limit Canada's rights in law or under G108.

SI08 RIGHTS OF CANADA

1. Canada reserves the right to:
 - a. Reject any or all bids received in response to the bid solicitation;
 - b. Enter into negotiations with bidders on any or all aspects of their bids;
 - c. Accept any bid in whole or in part without negotiations;
 - d. Cancel the bid solicitation at any time;
 - e. Reissue the bid solicitation;
 - f. If no compliant bids are received and the requirement is not substantially modified, reissue the bid solicitation by inviting only the bidders who bid to resubmit bids within a period designated by Canada; and
 - g. Negotiate with the sole compliant Bidder to ensure best value to Canada.

SI09 COVID-19 VACCINATION REQUIREMENT AND CERTIFICATION

This requirement is subject to the COVID-19 Vaccination Policy for Supplier Personnel. All offerors must provide with their offer, the COVID-19 Vaccination Requirement Certification attached to this RFSO (Appendix 5), to be given further consideration in this procurement process. This Certification is incorporated into, and forms a binding part of any resulting Contract. Failure to complete and provide the COVID-19 Vaccination Requirement Certification as part of the offer will render the offer non-responsive.

SI10 BID CHALLENGE AND RECOURSE MECHANISMS

(a) Several mechanisms are available to potential offerors to challenge aspects of the procurement process up to and including contract award.

(b) Canada encourages offerors to first bring their concerns to the attention of the Contracting Authority. Canada's Buy and Sell website, under the heading "Bid Challenge and Recourse Mechanisms" contains information on potential complaint bodies such as:

- Office of the Procurement Ombudsman (OPO)
- Canadian International Trade Tribunal (CITT)

(c) Offerors should note that there are **strict deadlines** for filing complaints, and the time periods vary depending on the complaint body in question. Offerors should therefore act quickly when they want to challenge any aspect of the procurement process

SI11 WEB SITES

The connection to some of the Web sites in the solicitation documents is established by the use of hyperlinks. The following is a list of the addresses of the Web sites:

Buy and Sell <https://www.achatsetventes-buyandsell.gc.ca>

Canadian economic sanctions <http://www.international.gc.ca/sanctions/index.aspx?lang=eng>

Contractor Performance Evaluation Report (Form PWGSC-TPSGC 2913)
<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/2913.pdf>

Standard Acquisition Clauses and Conditions (SACC) Manual
<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/5/R>

PWGSC, Industrial Security Services <Http://ssi-iss.tpsgc-pwgsc.gc.ca/index-eng.html>

PWGSC, Code of Conduct and Certifications
<http://www.tpsgc-pwgsc.gc.ca/app-acq/cndt-cndct/contexte-context-eng.html>

Construction and Consultant Services Contract Administration Forms Real Property Contracting
<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/formulaires-forms-eng.html>

Declaration Form
<http://www.tpsgc-pwgsc.gc.ca/ci-if/formulaire-form-eng.html>

Performance Bond (form PWGSC-TPSGC 505)
http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/505_eng.pdf

Trade agreements
<https://buyandsell.gc.ca/policy-and-guidelines/Policy-and-Legal-Framework/Trade-Agreements>

CALL-UPS CLAUSES OR RESULTING CONTRACT DOCUMENTS (CD)

1. The following are the “call up” contract documents:
 - a. Contract Page when signed by Canada;
 - b. Duly completed Price Proposal Form and any Appendices attached thereto;
 - c. Drawings and Specifications;
 - d. General Conditions and clauses

GC1 General Provisions – Construction Services	R2810D	(2017-08-17);
GC2 Administration of the Contract	R2820D	(2016-01-28);
GC3 Execution and Control of the Work	R2830D	(2019-11-28);
GC4 Protective Measures	R2840D	(2008-05-12);
GC5 Terms of Payment	R2550D	(2019-11-28);
GC6 Delays and Changes in the Work	R2860D	(2019-05-30);
GC7 Default, Suspension or Termination of Contract	R2870D	(2018-06-21);
GC8 Dispute Resolution	R2884D	(2016-01-28);
GC9 Insurance	R2900D	(2008-05-12);
Allowable Costs for Contract Changes under GC6.4.1	R2950D	(2015-02-25);
Supplementary Conditions		
 - e. Any amendment issued or any allowable offer revision received before the date and time set for solicitation closing;
 - f. Any amendment incorporated by mutual agreement between Canada and the Offeror before acceptance of the offer; and
 - g. Any amendment or variation of the contract documents that is made in accordance with the General Conditions.
2. The documents identified by title, number and date above are incorporated by reference and are set out in the Standard Acquisition Clauses and Conditions (SACC) Manual, issued by Public Works and Government Services Canada (PWGSC). The SACC Manual is available on the PWGSC Web site: <https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>
3. The language of the contract documents is the language of the Price Proposal Form submitted.

STANDING OFFER PARTICULARS

SOP01 GENERAL

1. The Offeror acknowledges that a standing offer is not a contract and that the issuance of a Standing Offer and Call-up Authority does not oblige or commit Canada to procure or contract for any services listed in the Standing Offer.
2. The Offeror offers to provide and deliver to Canada the services described in the Standing Offer, in accordance with the pricing set out in the Request for Standing Offer if, and when the Technical Authority may request such services, in accordance with the conditions listed at subsection 3 below.
3. The Offeror understands and agrees that:
 - a. a call-up against the Standing Offer will form a contract only for those services which have been called-up, provided that such call-up is made in accordance with the provisions of the Standing Offer;
 - b. Canada's liability is limited to that which arises from call-ups against the Standing Offer made within the period specified in the Standing Offer;
 - c. Canada has the right to procure the services specified in the Standing Offer by means of any other contract, standing offer or contracting method;
 - d. the Standing Offer cannot be assigned or transferred in whole or in part;
 - e. the Standing Offer may be set aside by Canada at any time.

SOP02 PERIOD OF THE STANDING OFFER

The period for placing call-ups against the Standing Offer shall be for (2) years commencing from the start date identified on the Standing Offer.

SOP03 CALL-UP LIMITATION

Each call-up against the Standing Offer will have a maximum limitation of expenditure of (\$100,000.00) (Applicable Taxes included). Canada will keep track of expenditures and ensure that they do not exceed the maximal allocated total percentage of each retained Offeror.

SOP04 CALL-UP PROCEDURE

1. Services will be called-up as follows:
 - a. For each individual call-up the Offeror will be provided the scope of work and will submit an offer to the Departmental Representative in accordance with the unit rates established under the Standing Offer. The Contractor's offer shall include all of the work as specified including; mobilizing, sub-trades, materials, labour, tools, administration fees and supervision including building permits as per local regulations.
2. The Offeror will be authorized in writing by the Contracting Authority to proceed with the work by issuance of a Call-up against the Standing Offer using form 2829.
3. Any proposed changes to the scope of work are to be discussed with the Departmental Representative but any resulting changes can only be authorized by an amendment issued by the Contracting Authority.

SOP05 STANDING OFFER RESPONSIBLES

The Contracting Authority is responsible for the establishment and administration of the Standing Offer and its revision if needed. The Contracting Authority is responsible for all contractual related questions regarding call-ups.

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Standing Offer Contracting Authority is:

Name: Sandra Lomax
Title: Supply Specialist
Department: Public Services and Procurement Canada
Division: Acquisitions Branch, Real Property Contracting
Telephone: (506) 639-8503
Facsimile: (506) 851-6759
E-mail address: sandra.lomax@pwgsc-tpsgc.gc.ca

Standing Offer Technical Authority is:

The Technical Authority represents the Department or Organisation for which the works are executed within a call-up. The Technical Authority is responsible for all technical related questions regarding call-ups.

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

SUPPLEMENTARY CONDITIONS (SC)

SC01 LIMITATION OF LIABILITY

GC1.6 of R2810D is deleted and replaced with the following:

GC1.6 Indemnification by the Contractor

1. The Contractor shall indemnify and save Canada harmless from and against all claims, demands, losses, costs, damages, actions, suits, or proceedings whether in respect to losses suffered by Canada or in respect of claims by any third party, brought or prosecuted and in any manner based upon, arising out of, related to, occasioned by, or attributable to the activities of the Contractor in performing the Work, provided such claims are caused by the negligent or deliberate acts or omissions of the Contractor, or those for whom it is responsible at law.
2. The Contractor's obligation to indemnify Canada for losses related to first party liability shall be limited to:
 - a. In respect to each loss for which insurance is to be provided pursuant to the insurance requirements of the Contract, the Commercial General Liability insurance limit for one occurrence, as referred to in the insurance requirements of the Contract.
 - b. In respect to losses for which insurance is not required to be provided in accordance with the insurance requirements of the Contract the greater of the Contract Amount or \$5,000,000, but in no event shall the sum be greater than \$20,000,000.

The limitation of this obligation shall be exclusive of interest and all legal costs and shall not apply to any infringement of intellectual property rights or any breach of warranty obligations.

3. The Contractor's obligation to indemnify Canada for losses related to third party liability shall have no limitation and shall include the complete costs of defending any legal action by a third party. If requested by Canada, the Contractor shall defend Canada against any third party claims.
4. The Contractor shall pay all royalties and patent fees required for the performance of the Contract and, at the Contractor's expense, shall defend all claims, actions or proceedings against Canada charging or claiming that the Work or any part thereof provided or furnished by the Contractor to Canada infringes any patent, industrial design, copyright trademark, trade secret or other proprietary right enforceable in Canada.
5. Notice in writing of a claim shall be given within a reasonable time after the facts, upon which such claim is based, became known.

SC02 INSURANCE TERMS

- 1) Insurance Contracts
 - (a) The Contractor must, at the Contractor's expense, obtain and maintain insurance contracts in accordance with the requirements of the Certificate of Insurance. Coverage must be placed with an Insurer licensed to carry out business in Canada.
 - (b) Compliance with the insurance requirements does not release the Contractor from or reduce its liability under the agreement. The Contractor is responsible for deciding if additional insurance coverage is necessary to fulfill its obligation under the agreement 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.
- 2) Period of Insurance
 - (a) The policies required in the Certificate of Insurance must be in force and be maintained throughout the duration of the standing offer period.

- (b) The Contractor must be responsible to provide and maintain coverage for Products/Completed Operations hazards on its Commercial General Liability insurance policy, for a period of six (6) years beyond the date of the Certificate of Substantial Performance.

3) Proof of Insurance

- (a) Before commencement of the Work, and no later than thirty (30) days after acceptance of its offer, the Contractor must deposit with Canada a Certificate of Insurance on the form attached herein.
- (b) Upon request by Canada, the Contractor must provide originals or certified true copies of all contracts of insurance maintained by the Contractor pursuant to the Certificate of Insurance.

4) Insurance Proceeds

In the event of a claim, the Contractor must, without delay, do such things and execute such documents as are necessary to effect payment of the proceeds.

5) Deductible

The payment of monies up to the deductible amount made in satisfaction of a claim must be borne by the Contractor.

SC03 COVID-19 VACCINATION REQUIREMENT CERTIFICATION COMPLIANCE

Canada will have the right to declare an offer non-responsive, or to set-aside a Standing Offer, if the COVID-19 Vaccination Requirement Certification is or becomes untrue or if the Offeror fails to comply with such Certification during the period of any resulting Contract (call-up).

Canada will also have the right to terminate any resulting Call-up for default if the COVID-19 Vaccination Requirement Certification is or becomes untrue or if the Contractor fails to comply with such Certification during the period of the Contract (call-up)

SC04 TRANSITION TO AN E-PROCUREMENT SOLUTION (EPS)

During the period of the Standing Offer, Canada may transition to an EPS for more efficient processing and management of individual call-ups for any or all of the SO's applicable goods and services. Canada reserves the right, at its sole discretion, to make the use of the new e-procurement solution mandatory.

Canada agrees to provide the Offeror with at least a three-month notice to allow for any measures necessary for the integration of the Offer into the EPS. The notice will include a detailed information package indicating the requirements, as well as any applicable guidance and support.

If the Offeror chooses not to offer their goods or services through the e-procurement solution, the Standing Offer may be set aside by Canada.

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APPENDIX 1 - PRICE PROPOSAL FORM

BA01 IDENTIFICATION

Minor Works, Small Craft Harbors, Southwest, NB

BA02 BUSINESS NAME AND ADDRESS OF OFFEROR

Name: _____

Address: _____

Telephone: _____ Fax: _____ PBN: _____

E-mail address: _____

Industrial Security Program Organisation Number (ISP ORG#) _____
(when required)

BA03 OFFER VALIDITY PERIOD

The offer must not be withdrawn for a period of (60) days following the date of solicitation closing.

BA04 SIGNATURE

Name and title of person authorized to sign on behalf of Offeror (Type or print)

Signature

Date

BA05 - THE OFFER

APPENDIX 1 - PRICE PROPOSAL FORM

Item	Description, Class of Labour, Material or Plant	Specification Section	Unit of Measure	Estimated Hrs / Qty	Unit Price	Total Price
1	Cast-in-Place Concrete	03 30 00	m ³	20		
2	Dimension Timber (Above wharf deck)	06 10 00	m ³	60		
3	Dimension Timber (Below wharf deck)	06 10 00	m ³	100		
4	Ladder	06 10 00	Unit	10		
5	Fender Piles: 10m - 12m	31 62 19	Unit	60		
6	Fender Piles: 12m - 15m	31 62 19	Unit	60		
7	Fender Piles: 15m - 18m	31 62 19	Unit	60		
8	Miscellaneous Wharf Repairs	31 62 19	Upset limit	1	500,000	500,000
Total Estimated Amount used for Evaluation						

Note: The estimated quantity entered in column four for each item is an estimate only for services as and when requested and does not infer that all the quantities for that item will be utilized or that the quantities may not be exceeded.

Offerors are required to bid on all line items in the Unit Price Table or their offer may be considered nonresponsive.

APPENDIX 3 EVALUATION PROCEDURES OR 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

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 Pricing Schedule (See Appendix 1). Offerors are required to bid on all line items in the Pricing Schedule or their offer may be considered non-responsive.

2. Basis of Selection

An offer must comply with the requirements of the Request for Standing Offers to be declared responsive. The responsive offer with the lowest evaluated price will be recommended for issuance of a Standing Offer. Responsive offers with the second, third, fourth and fifth lowest prices will then be ranked in that order. Canada reserves the right to issue up to two (2) Standing Offers.

Right of First Refusal Basis:

The call-up procedures require that when a requirement is identified, the identified user will contact the highest ranked offer to determine if the requirement can be satisfied by that offeror. If the highest-ranked offeror is able to meet the requirement, a call-up is made against its standing offer. If that offeror is unable to meet the requirement, the identified user will contact the next ranked offeror. The identified user will continue and proceed as above until one offeror indicates that it can meet the requirement of the call

APPENDIX 4

VOLUNTARY CERTIFICATION TO SUPPORT THE USE OF APPRENTICES

(page 1 of 2)

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA APPRENTICE PROCUREMENT INITIATIVE

1. To encourage employers to participate in apprenticeship training, Offerors, bidding on construction and maintenance contracts by Public Works and Government Services Canada (PWGSC) are being asked to sign a voluntary certification, signaling their commitment to hire and train apprentices.
2. Canada is facing skills shortages across various sectors and regions, especially in the skilled trades. Equipping Canadians with skills and training is a shared responsibility. The Government of Canada made a commitment to support the use of apprentices in federal construction and maintenance contracts. Contractors have an important role in supporting apprentices through hiring and training and are encouraged to certify that they are providing opportunities to apprentices as part of doing business with the Government of Canada.
3. The Government of Canada is encouraging apprenticeships and careers in the skilled trades. In addition, the government offers a tax credit to employers to encourage them to hire apprentices. Information on this tax measure administered by the Canada Revenue Agency can be found at: www.cra-arc.gc.ca. Employers are also encouraged to find out what additional information and supports are available from their respective provincial or territorial jurisdiction.
4. Signed certifications on page 2 of 2 will be used to better understand contractor use of apprentices on Government of Canada maintenance and construction contracts and may inform future policy and program development.
5. The Contractor hereby certifies the following:

In order to help meet demand for skilled trades people, the Contractor agrees to use, and require its subcontractors to use, reasonable commercial efforts to hire and train registered apprentices, to strive to fully utilize allowable apprenticeship ratios * and to respect any hiring requirements prescribed by provincial or territorial statutes

The Contractor hereby consents to this information being collected and held by PWGSC, and Employment and Social Development Canada to support work to gather data on the hiring and training of apprentices in federal construction and maintenance contracts.

To support this initiative, a voluntary certification signaling the Contractor's commitment to hire and train apprentices is available at page 2 of 2.

If you accept fill out and sign page 2 of 2.

** The journey person-apprentice ratio is defined as the number of qualified/certified journeypersons that an employer must employ in a designated trade or occupation in order to be eligible to register an apprentice as determined by provincial/territorial (P/T) legislation, regulation, policy directive or by law issued by the responsible authority or agency.*

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Voluntary Certification

(To be filled out and returned with offer on a voluntary basis)

(page 2 of 2)

Note: The Offeror will be asked to fill out a report every six months or at project completion as per sample "Voluntary Reports for Apprentices Employed during the Contract" provided at Annex C

Name:	
Signature:	
Company Name:	
Company Legal Name:	
Standing Offer Solicitation Number:	
Number of company employees:	
Number of apprentices planned to be working on this contract:	

Trades of those apprentices:

APPENDIX 5

COVID-19 VACCINATION REQUIREMENT CERTIFICATION

I, _____ (first and last name), as the representative of
_____ (name of business) pursuant to
_____ (insert solicitation number), warrant and certify that all personnel that
_____ (name of business) will provide on call-up(s) issued against the Standing
Offer resulting from this Request for Standing Offers who access federal government workplaces where they may come
into contact with public servants will be:
(a) fully vaccinated against COVID-19 with Health Canada-approved COVID-19 vaccine(s); or
(b) for personnel that are unable to be vaccinated due to a certified medical contraindication, religion or other prohibited
grounds of discrimination under the Canadian Human Rights Act, subject to accommodation and mitigation measures
that have been presented to and approved by Canada;
until such time that Canada indicates that the vaccination requirements of the COVID-19 Vaccination Policy for Supplier
Personnel are no longer in effect.

I certify that all personnel provided by _____ (name of business) have been notified of the
vaccination requirements of the Government of Canada's COVID-19 Vaccination Policy for Supplier Personnel, and that
the _____ (name of business) has certified to their compliance with this requirement.

I certify that the information provided is true as of the date indicated below and will continue to be true for the duration of
the Standing Offer and any resulting call-ups (contracts). I understand that the certifications provided to Canada are
subject to verification at all times. I also understand that Canada will declare an Offeror or contractor in default, if a
certification is found to be untrue, whether made knowingly or unknowingly, during the period of the Standing Offer or call-
up (contract). Canada reserves the right to ask for additional information to verify the certifications. Failure to comply with
any request or requirement imposed by Canada will constitute a default under the Standing Offer and call-up (contract).

Signature: _____

Date: _____

Optional

For data purposes only, initial below if your business already has its own mandatory vaccination policy or requirements for
employees in place. Initialing below is not a substitute for completing the mandatory certification above.

Initials: _____

Information you provide on this Certification Form and in accordance with the Government of Canada's COVID-19
Vaccination Policy for Supplier Personnel will be protected, used, stored and disclosed in accordance with the Privacy
Act. Please note that you have a right to access and correct any information on your file, and you have a right to file a
complaint with the Office of the Privacy Commissioner regarding the handling of your personal information. These rights
also apply to all individuals who are deemed to be personnel for the purpose for any resulting Contract and who require
access to federal government workplaces where they may come into contact with public servants.

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ANNEX A - CERTIFICATE OF INSURANCE (Not required at solicitation closing) CERTIFICATE OF INSURANCE

Page 1 of 2



Travaux publics et
Services gouvernementaux
Canada

Public Works and
Government Services
Canada

Description and Location of Work	Contract No.
	Project No.

Name of Insurer, Broker or Agent	Address (No., Street)	City	Province	Postal Code
Name of Insured (Contractor)	Address (No., Street)	City	Province	Postal Code
Additional Insured <i>Her Majesty the Queen in Right of Canada as represented by the Minister of Public Works and Government Services</i>				

Type of Insurance	Insurer Name and Policy Number	Inception Date D / M / Y	Expiry Date D / M / Y	Limits of Liability		
				Per Occurrence	Annual General Aggregate	Completed Operations Aggregate
Commercial General Liability				\$	\$	\$
Umbrella/Excess Liability				\$	\$	\$

I certify that the above policies were issued by insurers in the course of their Insurance business in Canada, are currently in force and include the applicable insurance coverage's stated on page 2 of this Certificate of Insurance, including advance notice of cancellation / reduction in coverage.

Name of person authorized to sign on behalf of Insurer(s) (Officer, Agent, Broker)

Telephone number

Signature

Date D / M / Y

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CERTIFICATE OF INSURANCE Page 2 of 2

General

The insurance policies required on page 1 of the Certificate of Insurance must be in force and must include the insurance coverage listed under the corresponding type of insurance on this page.

The policies must insure the Contractor and must include Her Majesty the Queen in Right of Canada as represented by the Minister of Public Works and Government Services as an additional Insured.

The Policy shall be endorsed to provide the Owner with not less than 30 day notice in writing in advance of any cancellation or change or amendment restricting coverage.

Without increasing the limit of liability, the policies must protect all insured parties to the full extent of coverage provided. Further, the policies must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.

Commercial General Liability

The insurance coverage provided must not be substantially less than that provided by the latest edition of IBC Form 2100.

The policy must either include or be endorsed to include coverage for the following exposures or hazards if the Work is subject thereto:

- (a) Blasting.
- (b) Pile driving and caisson work.
- (c) Underpinning.
- (d) Removal or weakening of support of any structure or land whether such support be natural or otherwise if the work is performed by the insured contractor.

The policy must have the following minimum limits:

- (a) **\$5,000,000** Each Occurrence Limit;
- (b) **\$10,000,000** General Aggregate Limit per policy year if the policy contains a General Aggregate; and
- (c) **\$5,000,000** Products/Completed Operations Aggregate Limit.

Umbrella or excess liability insurance may be used to achieve the required limits.

ANNEX B - VOLUNTARY REPORT FOR APPRENTICES EMPLOYED DURING THE CONTRACT (Sample)

(This report is not required at Offer deposit)

The Contractor should compile and maintain records on the number of apprentices and their trade that were hired to work on the contract.

The Contractor should provide this data in accordance with the format below. If no apprentices were hired during the contract period, the Contractor should still provide a "nil" report.

The data should be submitted six months after the Contract award or at the end of the Call-up, whichever comes first, to the Contracting Authority.

Number of apprentices hired	Trade

ANNEX C - LISTING OF SUBCONTRACTORS/SUPPLIERS (Could be asked for on individual call-ups)

On request from the Project Manager, to be submitted on call-ups

LISTING OF SUBCONTRACTORS AND SUPPLIERS

The Offeror must submit the list of Subcontractors/Suppliers for any division of the Work as listed in the table below. If "own forces" of the General Contractor are planned to be used to execute certain division(s) of work, it must also be indicated in the table below.

	Subcontractor/Supplier	Division
1		
2		
3		
4		

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ANNEX D SPECIFICATION

Small Craft Harbours	LIST OF CONTENTS	SECTION 00 00 00
Minor Works		
Southwest, New Brunswick		
Standing Offer		2021-03-12

<u>Section</u>	<u>Title</u>	<u>Pages</u>
<u>Division 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS</u>		
00 00 00	LIST OF CONTENTS	1
00 00 01	LIST OF DETAILS	1
00 01 12	SPECIFICATION APPROVAL SHEET	1
<u>Division 01 - GENERAL REQUIREMENTS</u>		
01 10 10	GENERAL INSTRUCTIONS	5
01 29 83	PAYMENT PROCEDURES FOR TESTING LABORATORY PURPOSES	2
01 33 00	SHOP DRAWINGS AND OTHER SUBMITTAL PROCEDURES	5
01 35 24	SPECIAL PROCEDURES ON FIRE AND SAFETY REQUIREMENTS	3
01 35 25	SPECIAL PROCEDURES ON LOCKOUT REQUIREMENTS	5
01 35 29	HEALTH AND SAFETY REQUIREMENTS	10
01 35 43	ENVIRONMENTAL PROCEDURES	2
01 45 00	TESTING AND QUALITY CONTROL	3
01 74 11	CLEANING	2
01 74 21	CONSTRUCTION/DEMOLITION WASTE MANAGEMENT & DISPOSAL	2
<u>Division 03 - CONCRETE</u>		
03 05 10	CONCRETE GENERAL	4
03 10 00	CONCRETE FORMING AND ACCESSORIES	3
03 20 00	CONCRETE REINFORCING	3
03 30 00	CAST-IN-PLACE CONCRETE	6
<u>Division 05 - METALS</u>		
05 50 00	MISCELLANEOUS METAL	6
<u>Division 06 - WOOD, PLASTIC AND COMPOSITES</u>		
06 05 73	WOOD TREATMENT	3
06 10 10	DIMENSION TIMBER	4
<u>Division 31 - EARTHWORK</u>		
31 62 19	FENDER PILES	1
<u>Division 35 - MARINE STRUCTURE</u>		
35 00 01	MISCELLANEOUS WHARF REPAIRS	1
<u>APPENDIX "A"</u>		1

SMALL CRAFT HARBOURS	LIST OF DETAILS	SECTION 00 00 01
Minor Works		
Southwest, New Brunswick		
Standing Offer		2021-03-12

Detail No.	Title	Date
D1	GALLOWS ON TIMBER DECK DETAIL	FEBRUARY 2014
D2	GALLOWS ON CRIBWORK WHARF DETAIL	FEBRUARY 2014
D3	OUTSIDE STRINGER SPLICE DETAILS	FEBRUARY 2014
D4	STRINGER DETAIL	FEBRUARY 2014
D5	TIMBER WHEELGUARD ON CONCRETE DECK DETAIL	FEBRUARY 2014
D6	TIMBER WHEELGUARD ON CRIBWORK DETAIL	FEBRUARY 2014
D7	WHEELGUARD ON TIMBER DECK DETAIL	FEBRUARY 2014
D8	FENDER PILE DETAIL	FEBRUARY 2014
D9	FENDER PILE ON CRIBWORK DETAIL	FEBRUARY 2014
D10	FENDER PILE ON CONCRETE DECK	FEBRUARY 2014
D11	FENDER PILE ON WOOD DECK	FEBRUARY 2014
D12	SQUARE SAWN TIMBER FENDER DETAIL	FEBRUARY 2014
D13	LADDER ON CRIBWORK WHARF DETAIL	FEBRUARY 2014
D14	LADDER ON PILEWORK WHARF DETAIL	FEBRUARY 2014
D15	LADDER RUNG REPAIR DETAIL	FEBRUARY 2014
D16	CONCRETE ANCHOR BLOCK DETAIL	FEBRUARY 2014

SMALL CRAFT HARBOUR SPECIFICATION APPROVAL	SECTION 00 01 12
Minor Works	
Southwest, New Brunswick	
Standing Offer	2021-03-12

SPECIFICATION APPROVALS

1. APPROVED BY: _____ DATE: _____

2. TENDERED BY: _____ DATE: _____

1.1 DESCRIPTION OF WORK

- .1 Scope of work under this standing offer includes but shall not be limited to all labour, material and equipment to complete minor marine projects on Small Craft Harbour Facilities in Southwest New Brunswick, including harbours on the islands of Grand Manan, Deer Island, and Campobello.
- .2 All work will be coordinated with the Departmental Representative, the Area Chief, Small Craft Harbours and the Harbour Authority of the facility should there be one.
- .3 For each call-up, the Departmental Representative will provide, in consultation with the Contractor, a scope of work. The contractor will visit the site of work and provide a written quote using items listed in this standing offer. Contractor to visit the site of work and submit a quote within 72 hours of notification from the Departmental Representative.
- .4 The Contractor must visit the site of work prior to submitting the written quote. No change to the quote will be made without the Departmental Representative's approval or change in scope of work.
- .5 The contractor must submit a quote using the quote bid sheet found in Appendix "A". A quote received not using the specified bid sheet will be returned to the Contractor.
 - .1 The Contractor must submit a quote within 72 hours of notification from the Departmental Representative. Should the Contractor fail to comply with 1.1.3 a total of three (3) times, the Contractor will no longer be eligible for work under this Standing Offer.
 - .2 The Contractor will keep track of the approved quantities using Appendix "A".
 - .3 The Contract number and call-up number must appear on the invoice or it will be returned to the Contractor for modification.
 - .4 A copy of the Call-up must be attached to the invoice.
- .6 One or more standing offers may be awarded for this work.
- .7 Minimum call-up amount will be \$1,000.00 and the maximum will not exceed \$100,000.00 including HST.

1.2 WORK SCHEDULE

- .1 The Contractor will order material required to complete the work immediately upon receipt of the call-up.

- .2 The Contractor will begin the work one (1) week after receiving the call-up against the standing offer unless otherwise authorized by the departmental representative/ project authority.

1.3 MEASUREMENT FOR PAYMENT

- .1 Measurement for payment will be by the unit prices as indicated in this specification and on the Unit Price Table.
- .2 Contractor will note that from site to site the length of some materials required, i.e. sheathing, fenders, ladders, etc. vary. Contractor, in his quote, will cover all costs of material. No extra compensation will be made for material. No credit will be expected by Departmental Representative for shorter material than what was quoted.
- .3 All items to include removal and disposal of existing items if and as required. Dispose of in an environmentally acceptable manner to all existing N.B. Environmental Disposal Regulations.
- .4 Unit Prices include all labour, plant, and equipment required to complete the work.

1.4 CODES AND STANDARDS

- .1 Perform work in accordance with the 2015 National Building Code of Canada and any other code of provincial or local application including all amendments up to project tender closing date provided that in any case of conflict or discrepancy, the more stringent requirements shall apply.
- .2 Materials and workmanship must meet or exceed requirements of specified standards, codes and referenced documents.

1.5 CONTRACTOR'S USE OF SITE

- .1 Co-operate with users of existing facilities. Maintain access to the existing wharves, structures, etc. and consult with the local Harbour Authority for the site access limitations.
- .2 Should interferences occur, take directions from Departmental Representative.
- .3 Do not unreasonably encumber site with materials or equipment.
- .4 Move stored products or equipment which interferes with operations of the Departmental Representative or other Contractors.
- .5 Obtain and pay for use of additional storage or work areas needed for operations.
- .6 Comply with all regulations and authorities having jurisdiction

over the work, whether on land or on water.

- .7 Ensure no damage occurs to existing structures as a result of operations. Any said damage will be repaired at contractor's expense.
- .8 Contractor will note that fishing activity in the harbour includes fishing boats, moorings, etc. The Contractor will notify the Departmental Representative twenty-four (24) hours prior to any work to commence at any given location. The Departmental Representative will notify Small Craft Harbour if any portion of the wharf area is to be cleared of boats, etc. The Contractor will note that fishing boats, etc. must be able to berth in the harbours during operations therefore Contractor must cooperate with boats and activities in the harbours. No compensation will be paid to Contractor for loss of time or any other as a result of activities in each harbour.

1.6 CODES AND STANDARDS

- .1 Perform work in accordance with the National Building Code of Canada (NBC) and any other code of Provincial or local application provided that in any case of Provincial or local application provided that in any case of conflict or discrepancy, the more stringent requirements will apply.
- .2 Materials and workmanship must meet or exceed requirements of specified standards, codes and referenced documents.

1.7 SETTING OUT WORK

- .1 Do all detail surveys necessary for the work, including locating and maintaining working points, and establishing lines and elevations. Perform all layout work, and carefully preserve benchmarks, reference points and stakes.
- .2 Provide such masts, scaffolds, batter boards, lines, straight edges, templates and other devices as may be necessary to facilitate layout, construction and inspection of the work. Whenever necessary, suspend work for such reasonable time as may be necessary to permit the Departmental Representative to check or inspect any portion of the work. The Contractor will not be allowed any extra time for completion because of this suspension of work.
- .3 Elevations for various grades and features of the specified works to be referenced and properly related to a benchmark, which will be approved by the Departmental Representative if required.
- .4 Verify all grades, lines, levels, and dimensions shown on the drawings and report any errors or inconsistencies to the Departmental Representative before commencing work. Establish all

other grades, lines, levels required to facilitate the work.

1.8 CONTRACT DOCUMENTS

- .1 Contract Documents:
 - .1 Standard drawings for some work consist of all drawings listed in these "Plans and Specifications" and any additional drawings issued at a later date by the Departmental Representative.
 - .2 Departmental Representative may furnish additional drawings to assist in proper execution of work.
 - .3 The drawings indicate the extent and general dimensions of the work. Make all necessary measurements to ensure that the result of the work is in accordance with the intent.
 - .4 Verify all existing conditions in field prior to proceeding with work.
- .2 Contract Specifications:
 - .1 The general requirements and technical specifications are written solely for the General Contractor. They are organized into the NMS format of separate divisions and sections.
- .3 Maintain at job site, one copy each of the following:
 - .1 Contract Drawings
 - .2 Specifications
 - .3 Addenda
 - .4 Other modifications to Contract
 - .5 Permits and approvals
 - .6 Environmental Protection Plan
 - .7 A copy of the construction safety plan.
 - .8 Copy of New Brunswick Occupational Health and Safety Act.

1.9 PERMITS AND REGULATIONS

- .1 Apply for, obtain, and pay for all necessary permits, approval and other authorizations required for the work.
- .2 Comply with all by-laws, ordinances, and regulations of all authorities having jurisdiction.
- .3 Pay for any Municipal permits per General Conditions "C".

1.10 DATUM

- .1 All elevations shown on drawings submitted at the time of the call-up, or mentioned in the specifications are expressed in

"Meters" and are referred to chart datum or Low Normal Tide (L.N.T.) which is taken as elevation 0.0 meter.

.2 The datum referred to in this Specification is Chart Datum. Chart Datum is, by International Agreement, a plane below which the tide will seldom fall. The Canadian Hydrographic Service has adopted the plane of the lowest normal tide (L.N.T.) as Chart Datum. As the rise, fall, and range of tides vary daily, the Canadian Tide and Current Tables, as issued by the Canadian Hydrographic Service, should be consulted for tidal predictions and other tidal information relating to work.

1.11 WORKERS COMPENSATION

.1 Contractor and all sub-contractors must be registered under the Workers' Compensation Act and provide evidence of good standing.

1.12 LAWS, STANDARDS, TAXES AND FEES

.1 Comply with all laws and standards governing all or any part of the work, pay all applicable taxes and pay for all permits and certificates required in respect of the execution of the work. Where variances exist between the requirements of agencies governing all or any part of the work, the most restrictive will govern, but in no instance will the standards established by the drawings and this Specification, which exceed such requirements, be reduced.

1.13 PROTECTION AND REPAIR

.1 Repair any damage resulting from operations under this contract.

1.14 DISPOSAL OF DEBRIS

- .1 Debris, including construction materials not incorporated in the work, oil products and containers, and other materials of this nature will be disposed of in suitable locations of the site. Disposal is the responsibility of the Contractor.
- .2 Material from the work will not be permitted to go adrift to otherwise become a menace to navigation.
- .3 Disposal of debris will be incidental to the cost of the repairs.

END OF SECTION

PART 1 - GENERAL

1.1 Section Includes

- .1 Inspection and testing by inspecting firms or testing laboratories designated by Departmental Representative.

1.2 Related Requirements Specified Elsewhere

- .1 Particular requirements for inspection and testing to be carried out by testing laboratory designated by Departmental Representative are specified under various sections.

1.3 Appointment and Payment

- .1 Departmental Representative will appoint and pay for services of testing laboratory except for the following:
 - .1 Inspection and testing required by laws, ordinances, rules, regulations or orders of public authorities.
 - .2 Inspection and testing performed exclusively for Contractor's convenience.
 - .3 Mill tests and certificates of compliance.
 - .4 Tests specified to be carried out by Contractor under the supervision of Departmental Representative.
 - .5 Tests requested by Departmental Representative to confirm material specifications when the applicable manufacturer's documentation or test results are unavailable.
 - .6 Additional tests specified in the following paragraph.
- .2 Where tests or inspections by designated testing laboratory reveal Work not in accordance with Contract requirements, pay costs for additional tests or inspections as required by Departmental Representative to verify acceptability of corrected work.

1.4 Contractor's Responsibilities

- .1 Provide labour, equipment and facilities to:
 - .1 Provide access to Work to be inspected and tested.
 - .2 Facilitate inspections and tests.
 - .3 Make good Work disturbed by inspection and test.
 - .4 Provide storage on site for laboratory's exclusive use to store equipment and cure test samples.
- .2 Notify Departmental Representative sufficiently in advance of operations to allow for assignment of laboratory personnel and scheduling of test.
- .3 Where materials are specified to be tested, deliver representative sample in required quantity to testing laboratory.

- .4 Pay costs for uncovering and making good Work that is covered before required inspection or testing is completed and approved by Departmental Representative.

END OF SECTION

PART 1 - GENERAL

1.1 Section Includes

- .1 Shop Drawings and product data.
- .2 Samples.
- .3 Certificates.

1.2 Administrative

- .1 Submit to Departmental Representative, submittals listed for review. Submit promptly and in orderly sequence to not cause delay in Work. Failure to submit in ample time is not considered sufficient reason for extension of Contract Time and no claim for extension by reason of such default will be allowed.
- .2 Do not proceed with Work affected by submittal until review is complete.
- .3 Present shop drawings, product data, samples, and mock-ups in SI Metric units.
- .4 Where items or information is not produced in SI Metric units, converted values are acceptable.
- .5 Review submittals prior to submission to Departmental Representative. This review represents that necessary requirements have been determined and verified, or will be, and that each submittal has been checked and co-ordinate with requirements of Work and Contract Documents. Submittals not stamped, signed, dated, and identified as to specific project will be returned without being examined and considered rejected.
- .6 Notify Departmental Representative in writing, at time of submission, identifying deviations from requirements of Contract Documents stating reasons for deviations.
- .7 Verify field measurements and affected adjacent Work are coordinated.
- .8 Contractor's responsibility for errors and omissions in submission is not relieved by Departmental Representative's review of submittals.
- .9 Contractor's responsibility for deviations in submission from requirements of Contract Documents is not relieved by Departmental Representative review.
- .10 Keep one reviewed copy of each submission on site.

1.3 Shop Drawings and Product Data

- .1 The term "shop drawings" means drawings, diagrams, illustrations, schedules, performance charts, brochures, and other data which are to be provided by Contractor to illustrate details of a portion of Work.
- .2 Indicate materials, methods of construction and attachment or anchorage, erection diagrams, connections, explanatory notes and other information necessary for completion of Work. Where articles or equipment attach or connect to other articles or equipment, indicate that such items have been coordinated, regardless of Section under which adjacent items will be supplied and installed. Indicate cross references to design drawings and specifications.
- .3 Allow seven (7) days for Departmental Representative's review of each submission.
- .4 Adjustments made on shop drawings by Departmental Representative are not intended to change Contract Price. If adjustments affect value of Work, state such in writing to Departmental Representative prior to proceeding with Work.
- .5 Make changes in shop drawings as Departmental Representative may require, consistent with Contract Documents. When resubmitting, notify Departmental Representative in writing of revisions other than those requested.
- .6 Accompany submissions with transmittal letter, in duplicate, containing:
 - .1 Date
 - .2 Project title and number
 - .3 Contractor's name and address
 - .4 Identification and quantity of each shop drawing, product data and sample.
 - .5 Other pertinent data.
- .7 Submissions include:
 - .1 Date and revision dates.
 - .2 Project title and number
 - .3 Name and address of:
 - .1 Subcontractor.
 - .2 Supplier.
 - .3 Manufacturer.
 - .4 Contractor's stamp, signed by Contractor's authorized representative certifying approval of submissions, verification of field measurements and compliance with Contract Documents.
 - .5 Details of appropriate portions of Work as applicable:
 - .1 Fabrication.

- .2 Layout, showing dimensions, including identified field dimensions, and clearances.
 - .3 Setting or erection details.
 - .4 Capacities.
 - .5 Performance characteristics.
 - .6 Standards.
 - .7 Operating weight.
 - .8 Wiring diagrams.
 - .9 Single line and schematic diagrams.
 - .10 Relationship to adjacent work.
- .8 After Departmental Representative's review, distribute copies.
- .9 Submit two (2) printed copies of shop drawings for each requirement requested in specification Sections and as Departmental Representative may reasonably request.
- .10 Submit two (2) electronic copies of product data sheets or brochures for requirements requested in specification Sections and as requested by Departmental Representative where shop drawings will not be prepared due to standardized manufacture of product.
- .11 Submit two (2) electronic copies of test reports for requirements requested in specification Sections and as requested by Departmental Representative.
 - .1 Report signed by authorized official of testing laboratory that material, product, or system identical to material, product, or system to be provided has been tested in accord with specified requirements.
 - .2 Testing must have been within three (3) years of date of Contract award for project.
- .12 Submit two (2) electronic copies of certificates for requirements requested in specification Sections and as requested by Departmental Representative.
 - .1 Statements printed on manufacturer's letterhead and signed by responsible officials of manufacturer of product, system, or material attesting that product, system, or material meets specification requirements.
 - .2 Certificates must be dated after award of project Contract complete with project name.
- .13 Submit two (2) electronic copies of manufacturer's instructions for requirements requested in specification Sections and as requested by Departmental Representative.
 - .1 Pre-printed material describing installation of product, system, or material, including special notices and Material Safety Data Sheets concerning impedances, hazards and safety precautions.
- .14 Submit two (2) electronic copies of Manufacturer's Field Reports for requirement requested in specification Sections and as

requested by Departmental Representative.

.1 Documentation of the testing and verification actions taken by manufacturer's representative to confirm compliance with manufacturer's standards or instructions.

- .15 Submit two (2) electronic copies of Operation and Maintenance Data for requirements requested in specification Sections and as requested by Departmental Representative.
- .16 Delete information not applicable to project.
- .17 Supplement standard information to provide details applicable to project.
- .18 If upon review by Departmental Representative, no errors or omissions are discovered or if only minor corrections are made, copies will be returned and fabrication and installation of Work may proceed. If shop drawings are rejected, noted copy will be returned and resubmission of corrected shop drawings, through same procedure indicated above, must be performed before fabrication and installation of Work may proceed.
- .19 Review of shop drawings in accordance with AES Best Practice - Shop Drawing Review Process. Review of shop drawings is for sole purpose of ascertaining conformance with general concept. This review shall not mean that SCH approves detail design inherent in 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 shop drawings or of responsibility for meeting all requirements of construction and Contract Documents. Without restricting generality of foregoing. Contractor is responsible for dimensions to be confirmed and correlated at job site, for information that pertains solely to fabrication processes or to techniques of construction and installation and for co-ordination of Work of all sub-trades.

1.4 Samples

- .1 Submit for review, samples in duplicate as requested in respective specification Sections. Label samples with origin and intended use.
- .2 Deliver samples prepaid to Departmental Representative's business address.
- .3 Notify Departmental Representative in writing, at time of submission, of deviations in samples from requirements of Contract Documents.
- .4 Where color, pattern, or texture is criterion, submit full range of samples.

- .5 Adjustments made on samples by Departmental Representative are not intended to change Contract Price. If adjustments affect value of Work, state such in writing to Departmental Representative prior to proceeding with Work.
- .6 Make changes in samples which Departmental Representative may require, consistent with Contract Documents.
- .7 Reviewed and accepted samples will become standard of workmanship and material against which installed Work will be verified.

1.5 Mock-Ups

- .1 Erect mock-ups in accordance with 01 45 00 - Quality Control.

1.6 Progress Photographs

- .1 Submit progress photographs to Departmental Representative as requested.

1.7 Certificates and Transcripts

- .1 Immediately after award of Contract, submit Workers' Compensation Board status.

PART 2 - PRODUCTS

2.1 Not Used

- .1 Not Used.

PART 3 - EXECUTION

3.1 Not Used

- .1 Not Used.

END OF SECTION

PART 1 - GENERAL

1.1 Related Work

- .1 Section 01 35 29: Health and Safety Requirements

1.2 References

- .1 FCC No. 301 - June 1982 Standard for Construction Operations.
- .2 FCC No. 302 - June 1982 Standard for Welding and Cutting.
- .3 Fire Protection Standards FCC 301 and FCC 302.

1.3 Definitions

- .1 Hot Work defined as:
 - .1 Welding work.
 - .2 Cutting of materials by use of torch or other open flame devices.
 - .3 Grinding with equipment which produces sparks.
 - .4 Torching operations.

1.4 Fire Safety Requirement

- .1 Implement and follow fire safety measures during Work. Comply with following:
 - .1 National Fire Code, 2015
 - .2 Fire Protection Standards FCC 301 and FCC 302.
 - .3 Federal and Provincial Occupational Health and Safety Acts and Regulations.
- .2 In event of conflict between any provisions of above authorities the most stringent provision will apply. Should a dispute arise in determining the most stringent requirement, Departmental Representative will advise on the course of action to be followed.

1.5 Hot Work Authorization

- .1 Obtain Departmental Representative's "Authorization to Proceed" before conducting any form of Hot Work on site.
- .2 To obtain authorization submit to Departmental Representative:
 - .1 Contractor's Hot Work Procedures to be followed on site to ensure fire safety.
 - .2 Description of the type and frequency of Hot Work required.
 - .3 Completed Hot Work Permit.
- .3 Upon review and confirmation that effective fire safety measures

will be implemented during performance of hot work, Departmental Representative will provide "Authorization to Proceed" as follows:

- .1 Issue one (1) written Authorization to Proceed covering the entire project and duration of work or;
- .2 Issue individual Authorization to Proceed for specific items of work by requiring Contractor to fill out individual Hot Work Permit for each hot work event as determined by Departmental Representative.
- .4 Frequency for Hot Work Permit based on:
 - .1 Nature of phasing of work;
 - .2 Risk to facility operations;
 - .3 Quantity of various tides needing to perform hot work on project or;
 - .4 Other situations deemed necessary by Departmental Representative to ensure fire safety on premises.
- .5 Do not perform any hot work until receipt of Departmental Representative's written Authorization to Proceed.
- .6 Hot work to be performed inside building can only be done during Facility non-operational periods. Coordinate with Facility Manager through the Departmental Representative in this regard.
- .7 Failure to comply with the established hot work procedures may result in the issuance of a Non-Compliance Notification at Departmental Representative's discretion with possible disciplinary measures imposed as specified in Section 01 35 29.

1.6 Hot Work Procedures

- .1 Develop and implement safety procedures and work practices to be followed during the performance of hot work.
- .2 Procedures to include:
 - .1 Requirement to perform hazard assessment of site and immediate hot work area for each hot work event in accordance with Hazard Assessment and Safety Plan requirements of Section 01 35 29.
 - .2 Use of a Hot Work Permit system for each event when Hot Work event.
 - .3 Permit shall be issued by Contractor's Superintendent granting permission to worker or subcontractor to proceed with hot work.
 - .4 Provision of a designated person(s) to carry out a Fire Safety Watch for a minimum of 60 minutes immediately upon completion of the hot work.
 - .5 Compliance with fire safety codes and standards

specified herein and occupational health and safety regulations specified in Section 01 35 29.

- .3 Generic procedures, if used, must be edited, supplemented with pertinent information and tailored to reflect specific project conditions. Clearly label as being the Hot Work Procedures applicable to this contract.
- .4 Hot Work Procedures to be in typewritten format, listing step by step procedures and worker instructions, clearly establishing and allocating responsibilities of:
 - .1 Worker(s)
 - .2 Designated person authorized to issue the Hot Work Permit,
 - .3 Fire Safety Watcher,
 - .4 Subcontractors and Contractor.
- .5 Brief all workers and subcontractors on Hot Work Procedures and Permit system.

1.7 Fire Protection and Alarm Systems

- .1 Fire protection and alarm systems shall not be:
 - .1 Obstructed
 - .2 Shut-off, unless approved by Departmental Representative.
 - .3 Left inactive at the end of a working day or shift.
- .2 Do not use fire hydrants, standpipes, and hose systems for purposes other than firefighting.
- .3 Costs incurred, from the fire department, building owner, and tenants, resulting from negligently setting off false alarms will be charged to the Contractor in the form of financial progress payment reductions and holdback assessments against the Contract.

1.8 Documents on Site

- .1 Keep Hot Work Permits and Hazard assessment documentation on site for duration of Work.
- .2 Upon request, make available to Departmental Representative or to authorized safety representative for inspection.

END OF SECTION

1.1 Section Includes

- .1 Procedures to isolate and lockout electrical facility and other equipment from energy sources.

1.2 Related Work

- .1 Section 01 35 29: Health and Safety Regulations.
- .2 Section 01 35 24: Special Procedures on Fire Safety Requirements.

1.3 References

- .1 CSA C22.1-06 - Canadian Electrical Code, Part 1, Safety Standard for Electrical Installations.
- .2 CAN/CSA C22.3 No.1-06 - Overhead Systems.
- .3 CSA C22.3 No.7-06 - Underground Systems
- .4 COSH: Canada Occupational Health and Safety Regulations made under Part II of the Canada Labour Code.

1.4 Definitions

- .1 Electrical Facility: means any system, equipment, device, apparatus, wiring, conductor, assembly or part thereof that is used for the generation, transformation, transmission, distribution, storage, control, measurement or utilization of electrical energy, and that has an amperage and voltage that is dangerous to persons.
- .2 Guarantee of Isolation: means a guarantee by a competent person in control or in charge that a particular facility or equipment has been isolated.
- .3 De-energize: in the electrical sense, that a piece of equipment is isolated and grounded, e.g. if the equipment is not grounded, it cannot be considered de-energized (DEAD).
- .4 Guarded: means that an equipment or facility is covered, shielded, fenced, enclosed, inaccessible by location, or otherwise protected in a manner that, to the extent that is reasonably practicable, will prevent or reduce danger to any person who might touch or go near such item.
- .5 Isolate: means that an electrical facility, mechanical equipment or machinery is separated or disconnected from every source of

electrical, mechanical, hydraulic, pneumatic or other kind of energy that is capable of making it dangerous.

- .6 Live/alive: means that an electrical facility produces, contains, stores or is electrically connected to a source of alternating or direct current of an amperage and voltage that is dangerous or contains any hydraulic, pneumatic or other kind of energy that is capable of making the facility dangerous to persons.

1.5 Compliance Requirements

- .1 Comply with the following in regards to isolation and lockout of electrical facilities and equipment:
 - .1 Canadian Electrical Code
 - .2 Federal and Provincial Occupational Health and Safety Acts and Regulations.
 - .3 Regulations and code of practice as applicable to mechanical equipment or other machinery being de-energized.
 - .4 Procedures specified herein.
- .2 In event of conflict between any provisions of above authorities, the most stringent provision will apply.

1.6 Submittals

- .1 Submit a copy of lockout procedures, sample of lockout permit and lockout tags proposed for use in accordance with Section 01 33 00. Submit within 14 calendar days of acceptance of bid.

1.7 Isolation of Existing Services

- .1 Obtain Departmental Representative's written authorization prior to working on existing live or active electrical facilities and equipment and before proceeding with isolation of such item.
- .2 To obtain authorization, submit to Departmental Representative the following documentation:
 - .1 Written request to isolate the particular service or facility and;
 - .2 Copy of Contractor's Lockout Procedures.
- .3 Make a Request for Isolation for each event, unless directed otherwise by Departmental Representative, as follows:
 - .1 Fill-out standard form in current use at the Facility as provided by Departmental Representative or;

- .2 Where no form exist, make written request indicating:
 - .1 The equipment, system or service to be isolated and its location;
 - .2 Duration of isolation period (i.e.: start time & date).
 - .3 Voltage of service feed to system or equipment being isolated.
 - .4 Name of person making the request.
- .4 Do not proceed with isolation until receipt of written notification from Departmental Representative granting the Isolation Request and authorization to proceed with the work.
 - .1 Note that Departmental Representative may designate another person at the Facility being authorized to grant the Isolation Request.
- .5 Conduct safe, orderly shutdown of equipment or facility. De-energize, isolate and lockout power and other sources of energy feeding the equipment or facility.
- .6 Determine in advance, as much as possible, in cooperation with the Departmental Representative, the type and frequency of situations which will require isolation of existing services.
- .7 Plan and schedule shut down of existing services in consultation with the Departmental Representative and the Facility Manager. Minimize impact and downtime of Facility operations. Follow Departmental Representative's directives in this regard.
- .8 Conduct hazard assessment as part of the process in accordance with health and safety requirements specified Section 01 35 29.

1.8 Lockouts

- .1 De-energize, isolate and lockout electrical facility, mechanical equipment and machinery from all potential sources of energy prior to working on such items.
- .2 Develop and implement clear and specific lockout procedures to be followed as part of the Work.
- .3 Prepare typed written Lockout Procedures describing safe work practices, procedures, worker responsibilities and sequence of activities to be followed on site by workforce to safely isolate an active piece of equipment or electrical facility and effectively lockout and tag out it's sources of energy.
- .4 Include as part of the Lockout Procedures a system of lockout permits managed by Contractor's Superintendent or other qualified person designated by him/her as being "in-charge" at the site.

- .1 A lockout permit shall be issued to specific worker providing a Guarantee of Isolation before each event when work must be performed on a live equipment or electrical facility.
- .2 Duties of person managing the permit system to include:
 - .1 Issuance of permits duration.
 - .2 Determining permit duration.
 - .3 Maintaining record of permits and tags issued.
 - .4 Making a Request for Isolation to Departmental Representative when required as specified above.
 - .5 Designating a Safety Watcher, when one is required based on type of work.
 - .6 Ensuring equipment or facility has been properly isolated.
 - .7 Collecting and safekeeping lockout tags returned by workers as a record of the event.
- .5 Clearly establish, describe and allocate responsibilities of:
 - .1 Workers.
 - .2 Person managing the lockout permit system.
 - .3 Safety Watcher.
 - .4 Subcontractor(s) and General Contractor.
- .6 Generic procedures, if used, must be edited and supplemented with pertinent information to reflect specific project requirements.
 - .1 Incorporate site specific rules and procedures in force at site as provided by Facility Manager through the Departmental Representative.
 - .2 Clearly label the document as being the Lockout procedures applicable to work of this contract.
- .7 Use energy isolation lockout devices specifically designed and appropriate for type of facility or equipment being locked out.
- .8 Use industry standard lockout tags.
- .9 Provide appropriate safety grounding and guards as required.

1.9 Conformance

- .1 Brief all workers and subcontractors on requirements of this section. Stringently enforce use and compliance.

1.10 Documents on Site

- .1 Post Lockout Procedures on site in common location for viewing by workers.

- .2 Keep copies of Request for Isolation forms and lockout permits and tags issued to workers on site for full duration of Work.
- .3 Upon request, make available to Departmental Representative or to authorized safety Representative for inspection.

END OF SECTION

1.1 Related Work

- .1 Section 01 35 24: SPECIAL PROCEDURES ON FIRE AND SAFETY REQUIREMENTS.
- .2 Section 01 35 25: SPECIAL PROCEDURES ON LOCKOUT REQUIREMENTS

1.2 DEFINITIONS

- .1 COSH: Canada Occupational Health and Safety Regulations made under Part II of the Canada Labour Code.
- .2 Competent Person: means a person who is:
 - .1 Qualified by virtue of personal knowledge, training and experience to perform assigned work in a manner that will ensure the health and safety of persons in the workplace, and;
 - .2 Knowledgeable about the provisions of occupational health and safety statutes and regulations that apply to the Work and;
 - .3 Knowledgeable about potential or actual danger to health or safety associated with the Work.
- .3 Medical Aid Injury: any minor injury for which medical treatment was provided and the cost of which is covered by Workers' Compensation Board of the province in which the injury was incurred.
- .4 PPE: personal protective equipment
- .5 Work Site: where used in this section shall mean areas, located at the premises where Work is undertaken, used by Contractor to perform all of the activities associated with the performance of the Work.

1.3 SUBMITTALS

- .1 Make submittals in accordance with Section 01 33 00 - SHOP DRAWINGS AND OTHER SUBMITTAL PROCEDURES.
- .2 Submit site-specific Health and Safety Plan prior to commencement of Work.
 - .1 Submit within ten (10) work days of notification of Bid Acceptance. Provide three (3) copies.
 - .2 Departmental Representative will review Health and Safety Plan and provide comments.
 - .3 Revise the Plan as appropriate and resubmit within five (5) work days after receipt of comments.
 - .4 Departmental Representative's review and comments made of the Plan shall not be construed as an endorsement, approval

or implied warranty of any kind by Canada and does not reduce Contractor's overall responsibility for Occupational Health and Safety of the Work.

- .5 Submit revisions and updates made to the Plan during the course of Work.
- .3 Submit name of designated Health & Safety Site Representative and support documentation specified in the Safety Plan.
- .4 Submit building permit, compliance certificates and other permits obtained.
- .5 Submit copy of Letter in Good Standing from Provincial Workers' Compensation or other department of labour organization.
 - .1 Submit update of Letter of Good Standing whenever expiration date occurs during the period of Work.
- .6 Submit copies of reports or directions issued by Federal, Provincial and Territorial health and safety inspectors.
- .7 Submit copies of incident reports.
- .8 Submit WHMIS MSDS - Material Safety Data Sheets.

1.4 COMPLIANCE REQUIREMENTS

- .1 Comply with Occupational Health and Safety Act for Province of New Brunswick, and Regulations made pursuant to the Act.
- .2 Comply with Canada Labour Code - Part II (entitled Occupational Health and Safety) and the Canada Occupational Health and Safety Regulations (COSH) as well as any other regulations made pursuant to the Act.
 - .1 The Canada Labour Code can be viewed at: <https://laws-lois.justice.gc.ca/eng/acts/L-2/>
 - .2 COSH can be viewed at: <https://laws-lois.justice.gc.ca/eng/regulations/sor-86-304/page-14.html>
- .3 Observe construction safety measures of:
 - .1 Part 8 of National Building Code
 - .2 Municipal by-laws and ordinances.
- .4 In case of conflict or discrepancy between above specified requirements, the more stringent shall apply.
- .5 Maintain Workers' Compensation Coverage in good standing for duration of Contract. Provide proof of clearance through submission of Letter in Good Standing.
- .6 Medical Surveillance: Where prescribed by legislation or regulation, obtain and maintain worker medical surveillance documentation.

1.5 RESPONSIBILITY

.1 Be responsible for health and safety of persons on site, safety of property on site and for protection of persons and environment adjacent to the site to extent that they may be affected by conduct of Work.

.2 Comply with and enforce compliance by all workers, sub-contractors and other persons granted access to Work Site with safety requirements of Contract Documents, applicable federal, provincial, and local by-laws, regulations, and ordinances, and with site-specific Health and Safety Plan.

1.6 SITE CONTROL AND ACCESS

.1 Control the Work and entry points to Work Site. Approve and grant access only to workers and authorized persons. Immediately stop and remove non-authorized persons.

.1 Departmental Representative will provide names of those persons authorized by Departmental Representative to enter onto Work Site and will ensure that such authorized persons have the required knowledge and training on Health and Safety pertinent to their reason for being at the site, however, Contractor remains responsible for the health and safety of authorized persons while at the Work Site.

.2 Isolate Work Site from other areas of the premises by use of appropriate means.

.1 Erect fences, hoarding, barricades and temporary lighting as required to effectively delineate the Work Site, stop non-authorized entry, and to protect pedestrians and vehicular traffic around and adjacent to the Work and create a safe environment. See Section 01 50 00 for minimum acceptable requirements.

.2 Post signage at entry points and other strategic locations indicating restricted access and conditions for access.

.3 Use professionally made signs with bilingual message in the two (2) official languages or international known graphic symbols.

.3 Provide safety orientation session to persons granted access to Work Site. Advise of hazards and safety rules to be observed while on site.

.4 Ensure persons granted site access wear appropriate PPE. Supply PPE to inspection authorities who require access to conduct tests or perform inspections.

.5 Secure Work Site against entry when inactive or unoccupied and to protect persons against harm. Provide security guard where adequate protection cannot be achieved by other means.

1.7 PROTECTION

- .1 Give precedence to safety and health of persons and protection of environment over cost and schedule considerations for Work.
- .2 Should unforeseen or peculiar safety related hazard or condition become evident during performance of Work, immediately take measures to rectify situation and prevent damage or harm. Advise Departmental Representative verbally and in writing.

1.8 FILING OF NOTICE

- .1 File Notice of Project with pertinent provincial health and safety authorities prior to beginning of Work.
 - .1 Departmental Representative will assist in locating address if needed.

1.9 PERMITS

- .1 Post permits, licenses and compliance certificates, specified in section 01 10 10 - GENERAL INSTRUCTIONS, at Work Site.
- .2 Where a particular permit or compliance certificate cannot be obtained, notify Departmental Representative in writing and obtain approval to proceed before carrying out applicable portion of work.

1.10 HAZARD ASSESSMENTS

- .1 Perform site specific health and safety hazard assessment of the Work and its site.
- .2 Carryout initial assessment prior to commencement of Work with further assessments as needed during progress of work, including when new trades and subcontractors arrive on site.
- .3 Record results and address in Health and Safety Plan.
- .4 Keep documentation on site for entire duration of the Work.

1.11 PROJECT/SITE CONDITIONS

- .1 Following are potential health, environmental and safety hazards at the site for which Work may involve contact with:
 - .1 Known latent site and environmental conditions:
 - .1 Working near watercourse
 - .2 Working with tides
 - .3 Limited space to maneuver.
 - .2 Facility on-going operations:
 - .1 The Contractor will co-operate with users of existing facilities. Maintain access to the existing wharf

- structures during fishing season and consult with the Departmental Representative for site access limitations.
- .2 Should interference occur, take directions from Departmental Representative.
- .3 Do not unreasonably encumber site with materials.
- .4 Move stored products or equipment which interferes with operations.
- .5 Comply with all regulations and authorities having jurisdiction over the work, whether on land or on water.
- .6 Contractor will note that fishing activity in the harbour includes fishing boats, moorings, etc.
- .2 Above items shall not be construed as being complete and inclusive of potential health and safety hazards encountered during Work.
- .3 Include above items in the hazard assessment of the Work.
- .4 MSDS Data sheets of pertinent hazardous and controlled products stored on site can be obtained from Departmental Representative.

1.12 MEETINGS

- .1 Attend pre-construction health and safety meeting, convened and chaired by Departmental Representative, prior to commencement of Work, at time, date and location determined by Departmental Representative. Ensure attendance of:
 - .1 Superintendent of Work
 - .2 Designated Health & Safety Site Representative
 - .3 Subcontractors
- .2 Conduct regularly scheduled tool box and safety meetings during the Work in conformance with Occupational Health and Safety regulations.
- .3 Keep documents on site.

1.13 HEALTH AND SAFETY PLAN

- .1 Prior to commencement of Work, develop written Health and Safety Plan specific to the Work. Implement, maintain, and enforce Plan for entire duration of Work and until final demobilization from site.
- .2 Health and Safety Plan shall include the following components:
 - .1 List of health risks and safety hazards identified by hazard assessment.
 - .2 Control measures used to mitigate risks and hazards identified.
 - .3 On-site Contingency and Emergency Response Plan as specified below.
 - .4 On-site Communication Plan as specified below.

- .5 Name of Contractor's designated Health & Safety Site Representative and information showing proof of his/her competence and reporting relationship in Contractor's company.
- .6 Names, competence and reporting relationship of other supervisory personnel used in the Work for occupational health and safety purposes.
- .3 On-site Contingency and Emergency Response Plan shall include:
 - .1 Operational procedures, evacuation measures and communication process to be implemented in the event of an emergency.
 - .2 Evacuation Plan: site and floor plan layouts showing escape routes, marshalling areas. Details on alarm notification methods, fire drills, location of firefighting equipment and other related data.
 - .3 Name, duties, and responsibilities of persons designated as Emergency Warden(s) and deputies.
 - .4 Emergency Contacts: name and telephone number of officials from:
 - .1 General Contractor and subcontractors.
 - .2 Pertinent Federal and Provincial Departments and Authorities having jurisdiction.
 - .3 Local emergency resource organizations.
 - .5 Harmonize Plan with Facility's Emergency Response and Evacuation Plan. Departmental Representative will provide pertinent data including name of SCH and Facility Management contacts.
- .4 On-site Communication Plan:
 - .1 Procedures for sharing of work related safety information to workers and subcontractors, including emergency and evacuation measures.
 - .2 List of critical work activities to be communicated with Facility Manager which have a risk of endangering health and safety of Facility users.
- .5 Address all activities of the Work including those of subcontractors.
- .6 Review Health and Safety Plan regularly during the Work. Update as conditions warrant to address emerging risks and hazards, such as whenever new trades or subcontractor arrive at Work Site.
- .7 Departmental Representative will respond in writing, where deficiencies or concerns are noted and may request re-submission of the Plan with correction of deficiencies or concerns.
- .8 Post copy of the Plan, and updates, prominently on Work Site.

1.14 SAFETY SUPERVISION

- .1 Employ Health & Safety Site Representative responsible for daily

supervision of health and safety of the Work.

- .2 Health & Safety Site Representative may be the Superintendent of the Work or other person designated by Contractor and shall be assigned the responsibility and authority to:
 - .1 Implement, monitor, and enforce daily compliance with health and safety requirements of the Work
 - .2 Monitor and enforce Contractor's site-specific Health and Safety Plan.
 - .3 Conduct site safety orientation session to persons granted access to Work Site.
 - .4 Ensure that persons allowed site access are knowledgeable and trained in health and safety pertinent to their activities at the site or are escorted by a competent person while on the Work Site.
 - .5 Stop the Work as deemed necessary for reasons of health and safety.
- .3 Health & Safety Site Representative must:
 - .1 Be qualified and competent person in occupational health and safety.
 - .2 Have site-related working experience specific to activities of the Work.
 - .3 Be on Work Site at all times during execution of the Work.
- .4 All supervisory personnel assigned to the Work shall also be competent persons.
- .5 Inspections:
 - .1 Conduct regularly scheduled safety inspections of the Work on a minimum bi-weekly basis. Record deficiencies and remedial action taken.
 - .2 Conduct Formal Inspections on a minimum monthly basis. Use standardized safety inspection forms. Distribute to subcontractors.
 - .3 Follow-up and ensure corrective measures are taken.
- .6 Cooperate with Facility's Occupational Health and Safety representative should one be designated by Departmental Representative.
- .7 Keep inspection reports and supervision related documentation on site.

1.15 TRAINING

- .1 Use only skilled workers on Work Site who are effectively trained in occupational health and safety procedures and practices pertinent to their assigned task.
- .2 Maintain employee records and evidence of training received. Make data available to Departmental Representative upon request.

- .3 When unforeseen or peculiar safety-related hazard, or condition occur during performance of Work, follow procedures in place for Employee's Right to Refuse Work in accordance with Acts and Regulations of Province having jurisdiction and advise Departmental Representative verbally and in writing.

1.16 MINIMUM SITE SAFETY RULES

- .1 Notwithstanding requirement to abide by federal and provincial health and safety regulations; ensure the following minimum safety rules are obeyed by persons granted access to Work Site:
 - .1 Wear appropriate PPE pertinent to the Work or assigned task; minimum being hard hat, safety footwear, safety glasses and hearing protection.
 - .2 Immediately report unsafe condition at site, near-miss accident, injury and damage.
 - .3 Maintain site and storage areas in a tidy condition free of hazards causing injury.
 - .4 Obey warning signs and safety tags.
- .2 Brief persons of disciplinary protocols to be taken for non-compliance. Post rules on site.

1.17 CORRECTION OF NON-COMPLIANCE

- .1 Immediately address health and safety non-compliance issues identified by authority having jurisdiction or by Departmental Representative.
- .2 Provide Departmental Representative with written report of action taken to correct non-compliance of health and safety issues identified.
- .3 Departmental Representative will stop Work if non-compliance of health and safety regulations is not corrected in a timely manner.

1.18 INCIDENT REPORTING

- .1 Investigate and report the following incidents to Departmental Representative:
 - .1 Incidents requiring notification to Provincial Department of Occupational Safety and Health, Workers' Compensation Board or to other regulatory Agency.
 - .2 Medical aid injuries.
 - .3 Property damage in excess of \$10,000.00,
 - .4 Interruptions to Facility operations resulting in an operational lost to a Federal department in excess of \$5000.00.
- .2 Submit report in writing.

1.19 HAZARDOUS PRODUCTS

- .1 Comply with requirements of Workplace Hazardous Materials Information System (WHMIS).
- .2 Keep MSDS data sheets for all products delivered to site.
 - .1 Post on site.
 - .2 Submit copy to Departmental Representative.
 - .3 For interior work in an occupied Facility, post additional copy in one or more publicly accessible locations.

1.20 BLASTING

- .1 Blasting or other use of explosives is not permitted on site without prior receipt of written permission and instructions from Departmental Representative.

1.21 CONFINED SPACES

- .1 Abide by occupational health and safety regulations regarding work in confined spaces.
- .2 Obtain an Entry Permit in accordance with Part XI of the Canada Occupational Health and Safety Regulations for entry into an existing identified confined space located at the Facility or premises of Work.
 - .1 Obtain permit from Facility Manager
 - .2 Keep copy of permit issued.
 - .3 Safety for Inspectors:
 - .1 Provide PPE and training to Departmental Representative and other persons who require entry into confined space to perform inspections.
 - .2 Be responsible for efficacy of equipment and safety of persons during their entry and occupancy in the confined space.

1.22 SITE RECORDS

- .1 Maintain on Work Site copy of safety related documentation and reports stipulated to be produced in compliance with Acts and Regulations of authorities having jurisdiction and of those documents specified herein.
- .2 Upon request, make available to Departmental Representative or authorized Safety Officer for inspection.

1.23 POSTING OF DOCUMENTS

- .1 Ensure applicable items, articles, notices and orders are posted in conspicuous location on Work Site in accordance with Acts and Regulations of Province having jurisdiction.
- .2 Post other documents as specified herein, including:
 - .1 Site specific Health and Safety Plan.
 - .2 WHMIS data sheets.
 - .3 Fire and Safety Requirements
 - .4 Special Procedures on Lockout Requirements

END OF SECTION

PART 1 - GENERAL

1.1 FIRES

- .1 Fires and burning of rubbish on site not permitted.

1.2 DISPOSAL OF WASTES

- .1 Do not bury rubbish and waste materials on site unless approved by Engineer.
- .2 Do not dispose of waste or volatile materials, such as mineral spirits, oil or paint thinner into waterways, storm or sanitary sewers.

1.3 DRAINAGE

- .1 Provide temporary drainage and pumping as necessary to keep excavations and site free from water.
- .2 Do not pump water containing suspended materials into waterways, sewer or drainage systems.
- .3 Control disposal or runoff of water containing suspended materials or other harmful substances in accordance with local authority requirements.

1.4 SITE CLEARING AND PLANT PROTECTION

- .1 Protect trees and plants on site and adjacent properties where indicated.
- .2 Wrap in burlap, trees and shrubs adjacent to construction work, storage areas and trucking lanes, and encase with protective wood framework from grade level to height of 2 m.
- .3 Protect roots of designated trees to dripline during excavation and site grading to prevent disturbance or damage. Avoid unnecessary traffic, dumping and storage of materials over root zones.
- .4 Minimize stripping of topsoil and vegetation.
- .5 Restrict tree removal to areas indicated or designated by Departmental Representative.

1.5 WORK ADJACENT TO WATERWAYS

- .1 Do not operate construction equipment in waterways.
- .2 Do not use waterway beds for borrow material.

- .3 Do not dump excavated fill, waste material or debris in waterways.
- .4 Design and construct temporary crossings to minimize erosion to waterways.
- .5 Do not skid logs or construction materials across waterways.
- .6 Avoid indicated spawning beds when constructing temporary crossings of waterways.
- .7 Do not blast under water or within 100 m of indicated spawning beds.

1.6 POLLUTION CONTROL

- .1 Maintain temporary erosion and pollution control features installed under this contract.
- .2 Control emissions from equipment and plant to local authorities' emission requirements.
- .3 Prevent sandblasting and other extraneous materials from contaminating air beyond application area, by providing temporary enclosures.
- .4 Cover or wet down dry materials and rubbish to prevent blowing dust and debris. Provide dust control for temporary roads.

PART 2 - PRODUCTS

2.1 Not Used

- .1 Not used

PART 3 - EXECUTION

3.1 Not Used

- .1 Not Used

END OF SECTION

PART 1 - GENERAL

1.1 Section Includes

- .1 Inspection and testing, administrative and enforcement requirements.
- .2 Tests and mix designs.
- .3 Mock-ups.
- .4 Mill tests.
- .5 Equipment and system adjust and balance.

1.2 Related Sections

- .1 Section 01 33 00 - SHOP DRAWINGS AND OTHER SUBMITTAL PROCEDURES

1.3 Inspection

- .1 Allow Departmental Representative access to Work. If part of Work is in preparation at locations other than Place of Work, allow access to such Work whenever it is in progress.
- .2 Give timely notice requesting inspection if Work is designated for special tests, inspections or approvals by Departmental Representative instructions, or law of Place of Work.
- .3 If Contractor covers or permits to be covered Work that has been designated for special tests, inspections or approvals before such is made, uncover such Work, have inspections or tests satisfactorily completed and make good such Work.
- .4 Departmental Representative may order any part of Work to be examined if Work is suspected to be not in accordance with Contract Documents. If, upon examination such work is found not in accordance with Contract Documents, correct such Work and pay cost of examination and correction.

1.4 Independent Inspection Agencies

- .1 Independent Inspection/Testing Agencies will be engaged by Departmental Representative for purpose of inspecting and/or testing portions of Work. Cost of such services will be borne by Departmental Representative.
- .2 Provide equipment required for executing inspection and testing

by appointed agencies.

- .3 Employment of inspection/testing agencies does not relax responsibility to perform Work in accordance with Contract Documents.
- .4 If defects are revealed during inspection and/or testing, appointed request additional inspection and/or testing to ascertain full degree of defect. Correct defect and irregularities as advised by Departmental Representative at no cost to this contract. Pay costs for retesting and re-inspection.

1.5 Access to Work

- .1 Allow inspection/testing agencies access to Work, off site manufacturing and fabrication plants.
- .2 Co-operate to provide reasonable facilities for such access.

1.6 Procedures

- .1 Notify appropriate agency and Departmental Representative in advance of requirement for tests, in order that attendance arrangements can be made.
- .2 Submit samples and/or materials required for testing, as specifically requested in specifications. Submit with reasonable promptness and in an orderly sequence so as not to cause delay in Work.
- .3 Provide labour and facilities to obtain and handle samples and materials on site. Provide sufficient space to store and cure test samples.

1.7 Rejected Work

- .1 Remove defective Work, whether result of poor workmanship, use of defective products or damage and whether incorporated in Work or not, which has been rejected by Departmental Representative as failing to conform to Contract Documents. Replace or re-execute in accordance with Contract Documents.
- .2 Make good other Contractor's work damaged by such removals or replacements promptly.

1.8 Reports

- .1 Submit four (4) copies of inspection and test reports to Departmental Representative.

- .2 Provide copies to Subcontractor of work being inspected or tested, manufacturer or fabricator of material being inspected or tested.

1.9 Tests and Mix Designs

- .1 Furnish test results and mix designs as may be requested.

1.10 Mocks-Ups

- .1 Prepare mock-ups for Work specifically requested in specifications. Include for Work of all Sections required to provide mock-ups.
- .2 Construct in all locations acceptable to Departmental Representative.
- .3 Prepare mock-ups for Departmental Representative's review with reasonable promptness and in an orderly sequence, so as not to cause any delay in Work.
- .4 Failure to prepare mock-ups in ample time is not considered sufficient reason for an extension of Contract Time and no claim for extension by reason of such default will be allowed.

1.11 Mill Tests

- .1 Submit mill test certificates as requested.

1.12 Equipment and Systems

- .1 Submit adjustment and balancing reports for mechanical and electrical.

PART 2 - PRODUCTS

2.1 Not Used

- .1 Not Used.

PART 3 - EXECUTION

3.1 Not Used

- .1 Not Used.

END OF SECTION

PART 1 - GENERAL

1.1 Section Includes

- .1 Progressive cleaning.
- .2 Final cleaning

1.2 Related Section

- .1 Section 01 74 21 - CONSTRUCTION/DEMOLITION WASTE MANAGEMENT & DISPOSAL

1.3 Project Cleanliness

- .1 Maintain Work in tidy condition, free from accumulation of waste products and debris, including that caused by Owner or other Contractor.
- .2 Remove waste materials from site at regularly scheduled times or dispose of as directed by Departmental Representative. Do not burn waste material on site, unless approved by Departmental Representative.
- .3 Clear snow and ice from access to wharf, bank/pile snow in designated areas only.
- .4 Make arrangements with and obtain permits from authorities having jurisdiction for disposal of waste and debris.
- .5 Provide on-site containers for collection of waste materials and debris.
- .6 Provide and use clearly marked separate bins for recycling. Refer to Section 01 74 19 - Construction/Demolition Waste Management and Disposal.
- .7 Remove waste material and debris from site and deposit in waste container at end of each working day.
- .8 Dispose of waste materials and debris at approved dumping areas off site.
- .9 Store volatile waste in covered metal containers, and remove from premises at end of each working day.
- .10 Provide adequate ventilation during use of volatile or noxious substances.
- .11 Use only cleaning materials recommended by manufacturer of

surface to be cleaned, and as recommended by cleaning material manufacturer.

- .12 Schedule cleaning operations so that resulting dust, debris and other contaminants will not fall on wet, newly painted surfaces nor contaminate the wharf areas.

1.4 Final Cleaning

- .1 When Work is Substantially Performed, remove surplus products, tools, construction machinery and equipment not required for performance of remaining Work.
- .2 Remove waste products and debris other than that caused by others, and leave Work clean and suitable for occupancy.
- .3 Prior to final review, remove surplus products, tools, construction machinery and equipment.
- .4 Remove waste products and debris.
- .5 Remove waste materials from site at regularly scheduled times or dispose of as directed by Departmental Representative. Do not burn waste materials on site.
- .6 Make arrangements with and obtain permits from authorities having jurisdiction for disposal of waste and debris.
- .7 Remove dirt and other disfiguration from exterior surfaces.
- .8 Sweep and wash clean paved areas.
- .9 Remove snow and ice from access to wharf.

PART 2 - PRODUCTS

2.1 Not Used

- .1 Not Used.

PART 3 - EXECUTION

3.1 Not Used

- .1 Not Used.

END OF SECTION

1.1 RELATED WORK

- .1 Environment Procedures: Section 01 35 43

1.2 GENERAL

- .1 Carry out work placing maximum emphasis on the areas of:
 - .1 Waste reduction;
 - .2 Diversion of waste from landfill and;
 - .3 Material Recycling.

1.3 WASTE REDUCTION

- .1 Develop waste reduction strategy for work.
- .2 Structure program to prioritize actions, with waste reduction as first priority, followed by salvage and recycling effort, then disposal as solid waste.
- .3 Identify materials and equipment to be:
 - .1 Salvaged for resale by Contractor.
 - .2 Sent to recycling facility.
 - .3 Sent to waste processing/landfill site for their recycling effort
 - .4 Disposed of in approved landfill site.
- .4 Reduce construction waste during installation work. Undertake practices which will minimize waste and optimize full use of new materials on site, such as:
 - .1 Use of a central cutting area to allow for easy access to off-cuts and clean-up of saw dust.
 - .2 Use of cut-offs for blocking and bridging elsewhere.
 - .3 Use of effective and strategically placed facilities on site for storage and staging of left-over or partially cut materials (such as plywood, dimension timber, etc...) to allow for easy incorporation into work whenever possible avoiding unnecessary waste.
- .5 Develop other strategies and innovative procedures to reduce waste.

1.4 MATERIAL SOURCE SEPARATION PROCESS

- .1 Develop and implement material source separation process at commencement of work as part of mobilization and waste management at site.
- .2 Provide on-site facilities to collect, handle and store anticipated quantities of reusable, salvageable and recyclable materials.
- .3 Establish methods whereby hazardous and toxic waste materials,

and their containers, encountered or used in the course work are properly isolated, stored on site and disposed in accordance with applicable laws and regulations from authorities having jurisdiction.

1.5 DISPOSAL REQUIREMENTS

- .1 Dispose of waste only at approved waste processing facility or approved landfill sites by authority having jurisdiction.
- .2 Contact the authority having jurisdiction prior to commencement of work, to determine what, if any construction waste materials have been banned from disposal in landfills. Take appropriate action to isolate such banned materials at site of work and dispose in strict accordance with provincial and municipal regulations.
- .3 Collect, bundle and transport salvaged materials to be recycled in separated categories and condition as directed by recycling facility. Ship materials only to approved recycling facilities.
- .4 Sale of salvaged items by Contractor to other parties not permitted on site.

1.6 REMOVAL

- .1 Remove in their entirety all materials and objects specified for removal including all fastenings. Carefully remove materials designated to be reused.

END OF SECTION

PART 1-GENERAL

1.1 Related Sections

- .1 Concrete General: Section 03 05 10
- .2 Concrete Forming and Accessories: Section 03 10 00
- .3 Concrete Reinforcing: Section 03 20 00
- .4 Miscellaneous Metals: Section 05 50 00

1.2 References

- .1 American Society for Testing and Materials International (ASTM)
 - .1 ASTM A 185-05, Standard Specification for Steel Welded Wire Reinforcement, Plain, for Concrete. Specification for Boiled Linseed Oil.
 - .2 ASTM D 1751-04, Standard Specification for Preformed Expansion Joint Filler for Concrete Paving and Structural Construction (Non extruding and Resilient Bituminous Types).
- .2 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-19.24-M90, Multicomponent, Chemical-Curing Sealing Compound.
- .3 Canadian Standards Association (CSA International)
 - .1 CSA-A23.1/A23.2-2004, Concrete Materials and Methods of Concrete Construction/Methods of Test and Standard Practices for Concrete.
 - .2 CAN/CSA-A3000-03, Cementitious Materials Compendium (Consists of A3001, A3002, A3003, A3004 and A3005).
 - .1 CSA-A3001-03, Cementitious Materials for Use in Concrete.
 - .3 CAN/CSA-G30.18-M92(R2002), Billet-Steel Bars for Concrete Reinforcement.

1.3 Measurement Procedures

- .1 Reinforced concrete: cast-in-place reinforced concrete to be measured in cubic meters (m³) calculated from neat dimensions indicated or authorized in writing by Departmental Representative.
 - .1 Concrete placed beyond dimensions indicated will not be measured.

- .2 Formwork and false work will not be measured by considered incidental to the work.
- .3 No deductions will be made for volume of concrete displaced by reinforcing steel.
- .4 Heating of water and aggregate and providing cold weather protection such as insulated blankets will not be measured but considered incidental to the work.
- .5 Cooling of concrete and providing hot weather protection will not be measured but considered incidental to the work.
- .6 Supply and installation of concrete additives as recommended by the supplier will not be measured but considered incidental to the work.
- .7 Supply and installation of anchor bolts, nuts, washers and bolt grouting will not be measured but considered incidental to the work.

1.4 Certificates

- .1 Submit certificates in accordance with Section 01 33 00 Submittal Procedures.
- .2 Provide certification that plant, equipment, and materials to be used in concrete comply with requirements of CAN/CSA23.1.
- .3 Provide mix design in compliance with CSA-A23.1 to provide concrete of quality, yield and strength as specified under 2.2 Mix. Mix design to be prepared by and stamped by an Engineer licensed to practice in the Province of New Brunswick.
- .4 Prior to starting concrete work, submit to Departmental Representative manufacturer's test data and certification by qualified independent inspection and testing laboratory that following materials will meet specified requirements:
 - .1 Portland cement
 - .2 Blended hydraulic cement
 - .3 Supplementary cementing materials
 - .4 Admixtures
 - .5 Aggregates
 - .6 Water

1.5 Submittals

- .1 Submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Shop Drawings:
 - .1 Submit placing drawings prepared in accordance with plans to clearly show size, shape, location and all necessary details

of reinforcing.

.2 Submit drawings showing formwork and false work design to: CSA-A23.1.

.3 Drawings to bear stamp and signature of qualified professional engineer registered or licensed in Province of New Brunswick, Canada.

1.6 Waste Management And Disposal

- .1 Designate a cleaning area for concrete trucks off site, at a company owned site for such a purpose meeting all federal and provincial requirements.
- .2 Use trigger operated spray nozzles for water hoses.
- .3 Designate a cleaning area for tools to limit water use and runoff.
- .4 Carefully co-ordinate the specified concrete work with weather conditions.
- .5 Prevent plasticizers, water-reducing agents and air-entraining agents from entering drinking water supplies or waterways. Using appropriate safety precautions, collect liquid or solidify liquid with an inert, non-combustible material and remove for disposal.
- .6 Choose least harmful, appropriate cleaning method which will perform adequately.

PART 2-PRODUCTS

2.1 Materials

- .1 Blended hydraulic cement: to CAN/CSA-A3001, Type GU10.
- .2 Water: to CSA-A23.1.
- .3 Aggregates: to CAN/CSA-A23.1/A23.2. Coarse aggregates to be normal density.
- .4 Reinforcing bars: to CAN/CSA-G30.18, Grade 400.
- .5 Pre-molded joint filler:
 - .1 Bituminous impregnated fiberboard: to ASTM D 1751.
- .6 Joint sealer/filler: grey to CAN/CGSB-19.24, Type 1, Class B.
- .7 Sealer: boiled linseed oil to ASTM D 260, mixed with mineral spirits 1:1 proprietary poly-siloxane resin blend.
- .8 Other concrete materials: to CSA-A23.1/A23.2.

.9 Curing compound: to CSA A23.1/A23.2.

2.2 Mix Design

- .1 The contractor shall be responsible for the concrete mix design.
- .2 It shall be the responsibility of the contractor to ensure that the mixture proportions shall be properly batched, mixed, placed and cured such that the concrete conforms to the specification.
- .3 Proportion normal density concrete in accordance with CAN/CSA-A23.1, Alternative 1, to give following properties:
 - .1 Cement: GUb-F/SF.
 - .2 Minimum compressive strength at 28 days: 35 MPa.
 - .3 Minimum cement content: 400 kg/m³ of concrete.
 - .4 Maximum water/cement ratio: 0.40.
 - .5 Class of exposure: C-1.
 - .6 Nominal size of coarse aggregate: 20 mm.
 - .7 Slump at time and point of discharge: 50 to 100 mm.
 - .8 Air content: 5 to 8%.

PART 3-EXECUTION

3.1 Preparation

- .1 Inform Departmental Representative before placing concrete. Provide 48 hours' notice prior to placing of concrete.
- .2 Pumping of concrete is permitted only after review of equipment and mix.
- .3 Ensure reinforcement and inserts are not disturbed during concrete placement.
- .4 Prior to placing of concrete advise Departmental Representative of proposed method for protection of concrete during placing and curing in adverse weather.
- .5 Maintain accurate records of poured concrete items to indicate date, location of pour, quality, and air temperature and test samples taken.
- .6 Do not place load upon new concrete until authorized by Departmental Representative.

3.2 Construction

- .1 Perform cast-in-place concrete work in accordance with CSA-A23.1.

3.3 Inserts

- .1 Cast in sleeves, ties, slots, anchors, reinforcement, frames, conduit, bolts, water stops, joint fillers and other inserts required to be built-in.
 - .1 Sleeves and openings greater than 100 mm x 100 mm not indicated, must be reviewed by Departmental Representative.

3.4 Finishes

- .1 Formed surfaces exposed to view: sack rubbed finish in accordance with CSA-A23.1.
- .2 Pavements, walks, curbs and exposes site concrete:
 - .1 Screed to plane surfaces and use aluminum magnesium, wood floats.
 - .2 Provide round edges and joint spacing using standard tools.
 - .3 Trowel smooth to provide lightly brushed non-slip finish.

3.5 Control Joints

- .1 Cut and form control joints in slabs on grade at locations indicated, in accordance with CSA-A23.1 and install specified joint sealer/filler.

3.6 Expansion and Isolation Joints

- .1 Install pre-molded joint filler in expansion and isolation joints full depth of slab flush with finished surface to CSA-A23.1.

3.7 Curing

- .1 Use curing compounds compatible with applied finish on concrete surfaces free of bonding agents and in accordance with CSA-A23.1.

3.8 Sealing

- .1 If specified, following curing, apply two even coats of linseed oil mixture to clean dry surfaces, each at 8 m²/L. Allow first coat to dry before applying second coat. Apply poly-siloxane

resin blend sealer at 4 m²/L.

3.9 Site Tolerances

- .1 Finishing tolerance in accordance with CSA-A23.1.

3.10 Field Quality Control

- .1 Concrete testing: to CSA-A23.1 by testing laboratory designated and paid for by Departmental Representative.

3.11 Cleaning

- .1 Use trigger operator spray nozzles for water hoses.
- .2 Designate cleaning area for tools to limit water use and runoff.
- .3 Cleaning of concrete equipment to be done in accordance with Section 01 35 43: Environmental Procedures.

END OF SECTION

PART 1-GENERAL

1.1 Measurement Procedures

- .1 No measurement will be made under this Section. Including costs in items of work for which concrete formwork is required.

1.2 References

- .1 Canadian Standards Association (CSA)
 - 1. CAN/CSA-A23.1-94, Concrete Materials and Methods of Concrete Construction.
 - 2. CAN/CSA-S269.3-M92, Concrete Formwork.

1.3 Shop Drawings

- .1 Submit shop drawings for formwork and false work in accordance with Section 01 33 00-Shop Drawings and other submittal procedures.
- .2 Indicate method and schedule of construction, shoring, stripping and re-shoring procedures, materials, arrangement of joints, ties and locations of temporary embedded parts, comply with CAN/CSA-S269.3 for formwork drawings.
- .3 Indicate formwork design data, such as permissible rate of concrete placement, and temperature of concrete, in forms.
- .4 Each shop drawing submission shall bear stamp and signature of qualified professional engineer registered or licensed in Province of New Brunswick, Canada.

1.4 Waste Management and Disposal

- .1 Separate and recycle waste materials in accordance with section 01 74 21-Construction/Demolition Waste Management And Disposal and the Waste Reduction Work plan.
- .2 Place materials defined as hazardous or toxic waste in designated containers.

- .3 Ensure emptied containers are sealed and stored safely for disposal away from children.
- .4 Use sealers, form release and stripping agents that are non-toxic, biodegradable and have zero or low VOC's.

PART 2-PRODUCTS

2.1 Materials

- .1 Formwork materials:
 - .1. For concrete, use wood and wood product formwork materials to CAN/CSA-086.1.
- .2 Form Ties:
 - .1 For concrete not designated "Architectural", use removable or snap-off metal ties, fixed or adjustable length, free of devices leaving holes larger than 25mm dia. in concrete surface.
- .3 Form release agent: non-toxic
- .4 Form stripping agent: colorless mineral oil, non-toxic
- .5 False work materials: to CSA-S269.1.

PART 3-EXECUTION

3.1 Fabrication and Erection

- .1 Verify lines, levels and centers before proceeding with formwork/false work and ensure dimensions agree with drawings.
- .2 Obtain Departmental Representative's approval for the use of earth forms framing openings not indicated on drawings.
- .3 Hand trim sides and bottoms and remove loose earth from earth forms before placing concrete.
- .4 Fabricate and erect false work in accordance with CSA S269.1 and

COFI Exterior Plywood for Concrete Formwork.

- .5 Do not place shores and mud sills on frozen ground.
- .6 Provide site drainage to prevent washout of soil supporting mud sills and shores.
- .7 Fabricate and erect formwork in accordance with CAN/CSA-S269.3 to produce finished concrete conforming to shape, dimensions, locations and levels indicated within tolerances required by CAN/CSA-A23.1
- .8 Align form joints and make watertight. Keep form joints to minimum.
- .9 Use 25mm chamfer strips on external corners and/or 25mm fillets at interior corners, joints, unless specified otherwise.
- .10 Form chases, slots, openings, recesses, expansion and control joints as indicated.
- .11 Build anchors, sleeves, and other inserts required to accommodate work specified in other sections. Assure that all anchors and inserts will not protrude beyond surfaces designed to receive applied finishes, including painting.

3.2 Removal and Reshoring

- .1 Leave formwork in place for following minimum periods of time after placing concrete.
 - .1 Five days for slabs, decks and other structural members.
- .2 Remove formwork, when concrete has reached 75% of its design strength or minimum period noted above, whichever comes later, and replace immediately with adequate reshoring.
- .3 Provide all necessary reshoring of members where early removal of forms may be required or where members may be subjected to additional loads during construction as required.
- .4 Space reshoring in each principal direction at not more than 3000 mm apart.
- .5 Re-use formwork and false work subject to requirements of CAN/CSA-A23.1

END OF SECTION

PART 1-GENERAL

1.1 Related Sections

- .1 Section 01 74 21-Construction/Demolition Waste Management and Disposal

1.2 References

- .1 Canadian Standards Association (CSA)
 - .1 CAN/CSA-A23.1, Concrete Materials and Methods of Concrete Construction.
 - .2 CAN/CSA-A23.2-00, Methods of Test for Concrete.
 - .3 CAN/CSA-A3000-98-A5-98, Portland Cement.
 - .4 CAN/CSA-G30.18-M92 (R1998), Billet-Steel Bars for Concrete Reinforcement.

1.3 Submittals

- .1 Shop Drawings.
 - .1 Submit placing drawing prepared in accordance with plans to clearly show size, shape, location and all necessary details of reinforcing.
 - .2 Submit drawings showing formwork and false work design to: CAN/CSA-A23.1
 - .3 Drawings to bear stamp and signature of qualified professional engineer registered or licensed in the Province of New Brunswick, Canada.

1.4 Waste Management and Disposal

- .1 Separate and recycle waste materials in accordance with section 01 74 21-Construction/Demolition Waste Management and Disposals.
- .2 Collect and separate plastic, paper packaging and corrugated cardboard in accordance with Waste Management Plan.
- .3 Place materials defined as hazardous or toxic in designated containers.
- .4 Ensure emptied containers are sealed and stored safely.

- .5 Use trigger operated spray nozzles for water hoses.
- .6 Designate cleaning area for tools to limit water use and runoff.

PART 2-PRODUCTS

2.1 Materials

- .1 Portland cement: to CAN/CSA-A3000-A5, Type 10.
- .2 Reinforcing bars: to CAN/CSA-G30.18, Grade 400.
- .3 Joint sealer/filler: grey, to CAN/CGSB-19.24, Type 1, Class B.
- .4 Sealer: proprietary poly-siloxane resin blend.
- .5 Other concrete materials: to CAN/CSA-A23.1

2.2 Mixes

- .1 Proportion concrete in accordance with CAN/CSA-A23.1.
- .2 Minimum compressive strength at 35 MPa as specified by Departmental Representative.
- .3 Nominal maximum size of coarse aggregate: to CAN/CSA-A23.1.
- .4 Slump: to CAN/CSA-A23.1.
- .5 Air content: concrete to contain purposely entrained air in accordance with CAN/CSA-A23.1, Table 10
- .6 Admixtures: to CAN/CSA-A23.1

PART 3-EXECUTION

3.1 Construction

- .1 Do concrete work in accordance with CAN/CSA-A23.1.

3.2 Inserts

- .1 Cast in sleeves, ties, slots, anchors, reinforcement, frames, conduit, bolts, water stops, joint fillers and other inserts required to be built-in. Sleeves and openings greater then 100mm x 100mm not indicated, must be approved ty the Departmental

Representative.

3.3 Finishes

- .1 Concrete Deck, guard
 - .1 Screed to plane surfaces and use wood floats.
 - .2 Provide round edges and joint spacing's using standard tools.
 - .3 Trowel smooth and provide lightly brushed non-slip finish.

3.4 Control Joints

- .1 Cut control joints in slabs on grade at locations indicated or specified by the Departmental Representative, in accordance with CAN/CSA-A23.1 and install specified joint sealer/filler.

3.5 Expansion and Isolation Joints.

- .1 Install pre-molded joint filler in expansion and isolation joints full depth of slab flush with finished surface.

3.6 Curing

- .1 Cure and protect concrete in accordance with CAN/CSA-A23.1.
 - .1 Do not use curing compounds where bond is required by subsequent topping or coating.

3.7 Sealing

- .1 Following curing, apply poly-siloxane resin blend sealer at 4m²/L.

3.8 Site Tolerances.

- .1 Concrete deck slab finishing tolerance in accordance with CAN/CSA-A23.1

3.9 Field Quality Control

- .1 Concrete testing: to CAN/CSA-A23.2 by testing laboratory designated and paid for by Departmental Representative.

END OF SECTION

PART 1-GENERAL

1.1 Description

- .1 This section specifies the requirement for the supply and installation of reinforcing steel for structural concrete.

1.2 Related Section

- .1 Cast-In-Place Concrete: Section 03 30 00

1.3 Measurement for Payment

- .1 No measurement will be made under this section. Include costs in items of concrete work for which reinforcement is required.

1.4 Reference Standards

- .1 Do concrete reinforcement work in accordance with CAN3-A23.1-M94 except where specified otherwise. Welding of reinforcement is not permitted.

1.5 Source Sampling

- .1 Upon request, provide the Departmental Representative with certified copy of all test of steel supplied showing physical and chemical analysis.

1.6 Shop Drawings

- .1 Submit shop drawings in accordance with Section 01 33 00.
- .2 Clearly indicate bar sizes, spacing, location and quantities of reinforcement, chairs, spacers and hangers with identifying code marks to permit correct placement without reference to structural drawings; to ACI Manual of Standard Practice for Detailing Reinforced Concrete Structures.

- .3 Detail placement of reinforcing where special conditions occur.
- .4 Design and detail lap lengths and bar development lengths to CAN3-A23.3-M90, unless otherwise specified on drawings.
- .5 Unless otherwise noted on design drawings, all reinforcing laps shall be detailed as Class C tension lap splices.

PART 2-PRODUCTS

2.1 Materials

- .1 Reinforcing steel: to CSA G30-18-M92 billet steel grade 400, deformed bars.
- .2 Wire Ties: to CSA G30.3-1972 (R1979) plain, cold drawn annealed steel wire.
- .3 Replace bars, which develop cracks or splits.

2.2 Fabrication

- .1 Fabricate reinforcing steel within following tolerances
 - .1 Sheared length: plus or minus 25mm.
 - .2 Ties: plus or minus 12mm.
 - .3 Other bends: plus or minus 25mm.
- .2 Ship bundles of bar reinforcement clearly identified in accordance with bar list.

PART 3-EXECUTION

3.1 Field Bending

- .1 Do not field bend reinforcement except where indicated or authorized by Departmental Representative.
- .2 When field bending is authorized, bend without heat, applying slow and steady pressure.
- .3 Replace bars, which develop cracks or splits.

3.2 Placing

- .1 Accurately place reinforcing steel in positions indicated and hold firmly during placing, compacting and setting of concrete.
- .2 Reinforcement shall be placed so that it is completely isolated from embedded parts.
- .3 Tie reinforcement where spacing in direction is:
 - .1 Less than 300mm: -tie at alternate intersections
 - .2 300mm or more: - tie at each intersection.
- .4 Keep reinforcement 75mm back from edges unless otherwise noted on Plan

3.3 Cleaning

- .1 Clean reinforcing before placing concrete

3.4 Inspection

- .1 Do not place concrete until Departmental Representative has inspected and approved reinforcement work in place.

END OF SECTION

PART 1-GENERAL

1.1 Related Sections

- .1 Section 01 74 21-Construction/Demolition Waste Management and Disposal
- .2 Section 03 30 00-Cast-in-Place Concrete
- .3 Section 06 10 10-Dimension Timber

1.2 Description

- .1 The work under this section will include the fabrication, supply and installation of all anchor bolts, machine bolts and all other miscellaneous bolts, nuts, washers, plates and metal parts required to complete the work.

1.3 References

- .1 Canadian Standards Association (CSA International)
 - .1 CSA G40.20/G40.21-98, General Requirements for Rolled or Welded Structural Quality Steel.
 - .2 CAN/CSA-G164-M92 (R1998), Hot Dip Galvanizing of Irregularly Shaped Articles.
 - .3 CAN/CSA-S16.1-01, Limit States Design of Steel Structures.
 - .4 CSA W48-01, Filler Metals and Allied Materials for Metal Arc Welding (Developed in co-operation with the Canadian Welding Bureau).
 - .5 CSA W59-1989 (R2001), Welded Steel Construction (Metal Arc Welding) (Imperial Version).
 - .6 CSA HA Series-M1980, CSA Standards for Aluminum and Aluminum Alloys.
 - .7 CAN3-S157-M83, Strengths Design in Aluminum.
 - .8 CSA W59.2-M1991, Welded Aluminum Construction.
 - .9 CSA W57.2-M1987, Certification of Companies for Fusion Welding of Aluminum.

- .10 CAN3-S157, Surface Preparation of Aluminum in contact with dissimilar materials.
- .11 CSA CAN3-S16.1-M78, Steel Structures for Buildings-Limit States Design.
- .2 American Society for Testing and Materials:
 - .1 ASTM B928/B928-07 Standard Specification for High Magnesium Aluminum- Alloy Sheet and Plate for Marine Service and Similar Environment.
 - .2 ASTM D 2000 Standard Classification System for Rubber Products in Automotive Applications.
- .3 Do welding to CSA W59-M1989 unless specified otherwise. Welding companies and welders to be certified under CSA W47.1
- .4 Submit welder's certificate for review by Departmental Representative.

1.4 Measurement for Payment

- .1 No separate Payment: steel, plates, angles and fasteners: Include cost of supply and installation in items for payment in their respective sections. This will also include all welding, cutting, drilling and other work necessary in the field to complete the work.
- .2 No separate payment shall be made for anchor bolts, machine bolts, nuts and washers, pipe sleeves, inserts, resin anchors, neoprene mat, galvanizing touch-up, etc. Include cost of these items in items of work where applicable.

1.5 Submittals

- .1 Shop Drawings
 - .1 Indicate materials, core thicknesses, finishes, connections, joints, method of anchorage, number of anchors, supports, reinforcement, details, and accessories.

1.6 Quality Assurance

- .1 Test Reports: Certified test reports showing compliance with specified performance characteristics and physical properties.
- .2 Certificates: Product certificates signed by manufacturer certifying materials comply with specified performance

characteristics and criteria and physical requirements.

1.7 Waste Management and Disposal

- .1 Divert unused metal materials from landfill to metal recycling facility approved by Departmental Representative.

PART 2-PRODUCTS

2.1 Materials

- .1 Steel sections and plates: to CSA G40.20/G40.21-98 Grade 300w.
- .2 Welding materials: to CSA W59-1989 (R2001).
- .3 Welding electrodes: to CSA W48-01 Series.
- .4 Bolts, washers, and anchor bolts etc.: to ASTM A307.
- .5 Wire nails and spikes shall conform to CSA Standard B111-1974.
- .6 Lag Crews, Machine Bolts, Drift Bolts:
 - .1 Lag screws shall meet the requirements of CSA Standard B18.2.3.3-M1979 and B34-1967 (R1972)
 - .2 Machine Bolts will have standard heads, nuts and threads and when in position will be of sufficient length to permit a full nut and four washers.
 - .3 Drift bolts to be pressed and of full dimensions specified with approved countersunk heads and wedge points. Heads to be enlarged to a diameter of 13mm greater than bolt and strongly swelled at the shoulder.
 - .4 Standard Cast Iron Washers suitable for the sizes of the bolts specified will be placed under the heads and nuts of all machine bolts bearing on timber surfaces unless noted otherwise on drawings. Ogee washers to Timber Design Manual 1980 issued by Laminated Timber Institute of Canada and as follows: ogee washers to be cast iron free from injuries, defects or impurities.
 - .5 As an alternate to ogee washers, standard plate washers can be used. The washer is to be three times bolt diameter and a minimum thickness of 8mm unless noted otherwise.
- .7 Cast Iron: to ASTM A48-74
- .8 Steel pipe: to ASTM-A53

- .9 Resin Anchorage Cartridge: Epoxy resin cartridge providing 120Kn ultimate tensile strength for size and depth of embedment shown on drawings.
- .10 Galvanizing: hot dipped galvanizing with minimum zinc coating of 610g/m² to CSA G164-M1981. All anchor bolts, spikes, nuts, washers, plates, steel sections to be galvanized unless otherwise approved by the Departmental Representative.

2.2 Fabrication

- .1 Fabricate work square, true, straight and accurate to required size, with joints closely fitted and properly secured.
- .2 Where possible, fit and shop assemble work, ready for erection.
- .3 Ensure exposed welds are continuous for length of each joint. File or grind exposed welds smooth and flush.
- .4 Machine bolts will have standard heads, nuts and when in position will be of sufficient length to permit a full nut and two washers. Threads shall be Coarse Thread Series as specified in latest ANS/B1-1 having a Class 2A tolerance.
- .5 Standard cast iron washers suitable for the size of the bolt specified will be placed under the heads and nuts of all machine bolts bearing on timber surfaces unless noted otherwise on the drawings. Ogee washers to Timber Design Manual issued by Laminated Timber Institute of Canada and to be cast iron, free from injurious defects or impurities. As an alternative to Ogee washers, standard galvanized plate washers can be used. The washer is to be three times the bolt diameter and a minimum thickness of 8mm. Square washers is not permitted.
- .6 Drift Bolts: All drift bolts used in work will have a length equal to thickness of timbers being fastened less 50mm unless otherwise specified. Holes for drift bolts will be bored 2mm smaller diameter than size of steel used for full length of bolts.
- .7 The fabrication of all structural steel shall conform to the requirements of CSA CAN3-S16.1-M78.
- .8 Provide suitable and acceptable means of anchorage, such as dowels, anchor clips, bar anchors, bolts and washers, etc., as shown on the drawings.

2.3 Finishes

- .1 Galvanizing: all galvanized hardware as identified dipped galvanizing with zinc coating 610g/m² to CAN/CSA-G164-M1981.
- .2 Zinc primer: zinc rich, ready mix to CAN/CGSB-1.181.
- .3 All Metals or materials specified in this section are either hot dip galvanized and/or Stainless Steel. All anchorage to concrete will be Stainless Steel.

PART 3-EXECUTION

3.1 Erection

- .1 Do welding work in accordance with CSA W47.1-M1987 (R1998) unless specified otherwise.
- .2 Erect metalwork square, plumb, straight, and true, accurately fitted with tight joints and intersections.
- .3 Touch-up field welds, bolts and burnt or scratched surfaces after completion of erection with primer.
- .4 Take necessary care in the handling of all galvanized steel parts to prevent damage to the galvanized coating. Evidence of damage shall be cause for rejection. Damage may be touched-up if approved by the Departmental Representative.
- .5 Touch-up galvanized surfaces with zinc rich primer where burned by field welding.
- .6 All work to conform to CSA CAN3-S16.1-M78

3.2 Installation of Lag Screw Machine Bolts, Drift Bolts and Anchor Bolts.

- .1 Pre-drill holes for lag screws in accordance with CSA 086-M80, bored 3mm less than diameter of screw and depth 100 mm less than length of the screws.
- .2 Holes for drift bolts will be bored 1.5mm smaller diameter than bolt. Holes for drift bolts will be bored to a depth of 50mm less than the length of bolt. The heads of the drift bolts will be driven sufficiently far into the timbers to permit succeeding timbers to have a full and proper bearing on the ones beneath.
- .3 Holes for machine bolts will be bored to the same diameter as

that of the bolts. Machine bolts will have standard heads, nuts, and threads, and when in position will be of sufficient length to permit a full nut and two washers.

- .4 Machine bolts will be placed in the work with their heads on the outside. The heads of machine bolts that interfere with succeeding parts of the work being placed, or where directed by the Departmental Representative or shown on the drawings will be countersunk.
- .5 Standard cast iron washers or steel washers of the sizes indicated will be placed under the heads and nuts of all machine bolts bearing on timber surfaces, except where specified otherwise.
- .6 Where indicated, use steel washers of size shown.
- .7 Holes for anchor dowels will be bored 1.5mm than anchor dowel

END OF SECTION

PART 1-GENERAL

1.1 Related Sections

- .1 Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
- .2 Section 05 50 00 - Miscellaneous Metals
- .3 Section 06 05 73 - Wood Treatment

1.2 References

- .1 Canadian Standards Association (CSA International)
 - .1 CAN/CSA-G164-M92 (R1998), Hot Dip Galvanizing or Irregularly Shaped Articles.
 - .2 CAN/CSA-0141-91 (R1999), Softwood Lumber
- .2 National Lumber Grades Authority (NLGA)
 - .1 Standard Grading Rules for Canadian Limber 2000.

1.3 Quality Assurance

- .1 Lumber by grade stamp of an agency certified by Canadian Lumber Standards Accreditation Board

1.4 Dimensions

- .1 Construct and install dimensions timber, to dimensions indicated on the detail or as instructed by the Departmental Representative.
- .2 Check dimensions before commencing work and report discrepancies to Departmental Representative.

1.5 Measurement for Payment

- .1 **Dimension timber (Above wharf deck):** Supplied and installed for wheel guards, blocks and other miscellaneous timber to complete the work will be paid by the m3 of dimension timber, calculated from the neat dimensions indicated or authorized in writing by the Departmental Representative.

1. Including fasteners and connection devices to the areas shown on the details.
- .2 **Dimension timber (Below wharf deck):** Supplied and installed for wales, cross-bracing, blocks and other miscellaneous timber to complete the work will be paid by the m3 of dimension timber, calculated from the neat dimensions indicated or authorized in writing by the Departmental Representative.
 1. Including fasteners and connection devices to the areas shown on the details.
- .3 **Ladders:** Ladders will be paid by the unit price. Included in the unit price will be the removal and disposal of the existing ladders and the supply and installation of new treated timber ladders including the ladder extensions as specified on the plan or directed by the Departmental Representative.

PART 2-PRODUCTS

2.1 MATERIALS

- .1 Use timber graded and stamped in accordance with applicable grading rules and standards of Association or Agencies approved to grade lumber by Canadian Lumber Standards Administration Board of CSA.
- .2 Species: to CAN3-086-m84.
 - .1 Structural timber species: Pacific Coast Hemlock, Eastern Hemlock, or Douglas Fir (CCA Treated).
 - .2 Grade: No.1 Structural.

2.2 Wood Preservative

- .1 In accordance with Section 06 05 73

2.3 Miscellaneous Metals

- .1 Miscellaneous Metals: refer to section 05 50 00

PART 3-EXECUTION

3.1 Installation

- .1 Install fasteners in accordance with section 05 50 00
- .2 Install members true to line, levels and elevations, square and plumb.
- .3 Construct continuous members from pieces of longest practical length.
- .4 Install spanning members with "crown-edge" up.
- .5 Do installation of dimension timber to CSA 086-M83.
- .6 Precut timbers prior to preservation treatment.

3.2 Field Cutting Treated Timber

- .1 Field cuts are to be minimal to suit field conditions. Follow best practices by cutting and field preserving treated timber in one location over a ground sheet and collect all saw dust, scrapes and drippings for disposal at an approved disposal site.
- .2 Treat, in field, cuts and damage to surface of treated material with an appropriate preservative as described in CSA 080 Series-97. Ensure that damaged areas such as abrasions, nail and spike holes are thoroughly saturated with field treatment solutions as per CSA 080 Series-97.
- .3 Treat bolt hole cut-offs and field cuts in accordance with CSA 080 Series-97.

3.3 Timber Wales

- .1 Install new Timber wales as shown on detail or as directed by the Departmental Representative.
- .2 Secure wale to bearing piles with 25mm diameter machine bolts as shown on drawings.
- .3 Do not notch or cut wale to provide straight face. Blocking/shims will be installed as required or as directed by the Departmental Representative.
- .4 Wales will extend a minimum of 150mm beyond the pile at each end.

3.4 Timber Cross Bracing

- .1 Supply and install new cross bracing as indicated or as directed by the Departmental Representative.
- .2 Secure each bracing as shown on detail or drawing.
- .3 Each cross bracing will extend 150mm beyond the pile to which it is attached.
- .4 Cross bracing will be secured to each pile, crossed with a 22mm diameter machine bolt.

3.5 Timber Ladder

- .1 The Contractor shall fabricate and install new ladders as shown on the detail or plan, complete with all hardware, rungs and holdfasts and ladder extension.
- .2 Each ladder will be composed of two 250mm x 250mm vertical timber uprights, spaced 460mm apart having rungs of 25mm diameter and 710mm long, spaced 305mm apart and a ladder extension secured to the upright as indicated on the detail or plan.
- .3 Supply and install holdfasts on the timber deck and install a holdfast on the ladder extensions as indicated on the detail or plan.
- .4 The ladders will be secured to the outside stingers on the ladder support wales, using 22mm diameter machine bolts, which are to be countersunk, as indicated on the detail or plan.
- .5 The exact locations of the ladders may vary from that indicated on the detail or plan.

END OF SECTION

PART 1-GENERAL

1.1 Related Sections

- .1 Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
- .2 Section 06 10 10 - Dimension Timber

1.2 References

- .1 Canadian Standards Association (CSA International)
 - .1 CSA 080 Series-97, Wood Preservation
 - .2 CSA 0322-02, Procedure for Certification of Pressure-Treated Wood Material for Use in Preserved Wood Foundations.
 - .3 NLGA Standard grading rules for Canadian Lumber 1980 edition or most recent edition at time of tendering.

1.3 Certifications

- .1 For products treated with preservative by pressure impregnation, submit following information certified by authorized signing officer of treatment plant:
 - 1. Information listed in AWPA M2 and revisions specified in CSA 080 Series-97 Series, Supplementary Requirements to AWPA M2 application to specified treatment.
 - 2. Moisture content after drying following treatment with water-borne preservative.

1.4 Waste Management Disposal

- .1 Do not dispose of preservative treated wood through incineration or with other materials destined for recycling or reuse.

1.5 Measurement for Payment

- .1 No payment will be made under this section. Include the cost of work of this section in applicable sections where treatment is required.

PART 2-PRODUCTS

2.1 MATERIALS

- .1 Preservation Treatment: Treat to CSA 080 M1989 commodity standard 080.18, Table 1 and its reference for coastal waters.

	CCA Kg/M ³	ACA Kg/M ³
Dimension Timber		
Douglas Fir	24	24
Pacific Coast Hemlock	24	24
Eastern Hemlock	24	24
Creosote Treatment not Permitted.		

2.2 GRADING

- .1 All dimensions timber shall be graded to the "National Lumber Grading Authority" (NLGA) or equivalent "Canadian Lumber Standards Association Board" approved grading authority.

PART 3-EXECUTION

3.1 Application Preservation

- .1 Treat to CSA 080.18 Series using CCA preservative to obtain minimum net retention specified for Marine applications.

3.2 Application Field Treatment

- .1 Comply with AWP A M4 and revisions specified in CSA 080 Series-97 Series, Supplementary Requirements to AWP A M2.

3.3 Treatment

- .1 Apply three (3) brush coats of same preservative used in original treatment to all bolt holes, saw cuts and exposed untreated wood in field to CSA 080-M1989. Treat exposed ends or cuts with three (3) liberally brushed coats allowing sufficient interval between applications to permit total absorption and timber to dry. In the case of creosote, the preservative is to be applied hot.

- .2 Fill all unused bored holes with preservative and plug with treated wooden plugs.
- .3 Filed cutting of timber after treatment is not permitted unless specifically approved by Departmental Representative.

3.4 Field Handling

- .1 Carefully handle material to prevent damage to treated wood.
- .2 Damaged material will be rejected and replaced with new material.

3.5 Delivery and Storage

- .1 Store timber horizontally, evenly supported and piled to permit air circulation when stored for prolonged periods.
- .2 When handling long timber, provide support at sufficient number of points, properly located to prevent damage due to excess bending.
- .3 Handle treated timber with hemp, manila or sisal rope slings or other approved means of support that will not damage the surface.
- .4 Do not use sharp pointed tools to handle treated timber. Any timber so handled will be rejected.

3.6 Field Quality

- .1 Timbers which contain rot, splits exposing untreated wood, excessive wane or timbers which cannot be fastened in the work so as to be structurally sound are unacceptable.
- .2 The Departmental Representative 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 this contract.

END OF SECTION

PART 1-GENERAL

1.1 Description

- .1 This section specifies the requirements for the installation of untreated fender piles.

1.2 Measurement for Payment

- .1 Fender Piles: The supply and installation of timber fender piles will be measured by the unit installed.
 - .1 Price to include removal and disposal of existing and all associated hardware to complete the installation as per detail.

PART 2-PRODUCTS

2.1 Materials

- .1 Round timber piles: to CAN3-056-M79, clean, peeled piles, machine turned, size and species as indicated below:
 - .1 Fender Piles:
 - Red Pine, Jack Pine, Spruce, Coast Douglas Fir
 - Minimum butt size 305 mm
 - Minimum tip size 178 mm
 - .2 Departmental Representative will be sole judge as to the quality and dimension of piles. Remove rejected piles from site of work.

PART 3-EXECUTION

3.1 General

- .1 Do all execution to applicable codes and standards.

END OF SECTION

PART 1-GENERAL

1.1 Description

- .1 Miscellaneous wharf repairs not covered in this specification may be required. The Departmental Representative will provide scope of work to the Contractor. Contractor will assess the work and provide a written quotation for the scope of work.

1.2 Measurement for Payment

- .1 An upset amount has been included in the unit price table for this work. The Departmental Representative will negotiate with Contractor a reasonable and fair price for the scope of work to be done.

PART 2-PRODUCTS

2.1 Materials

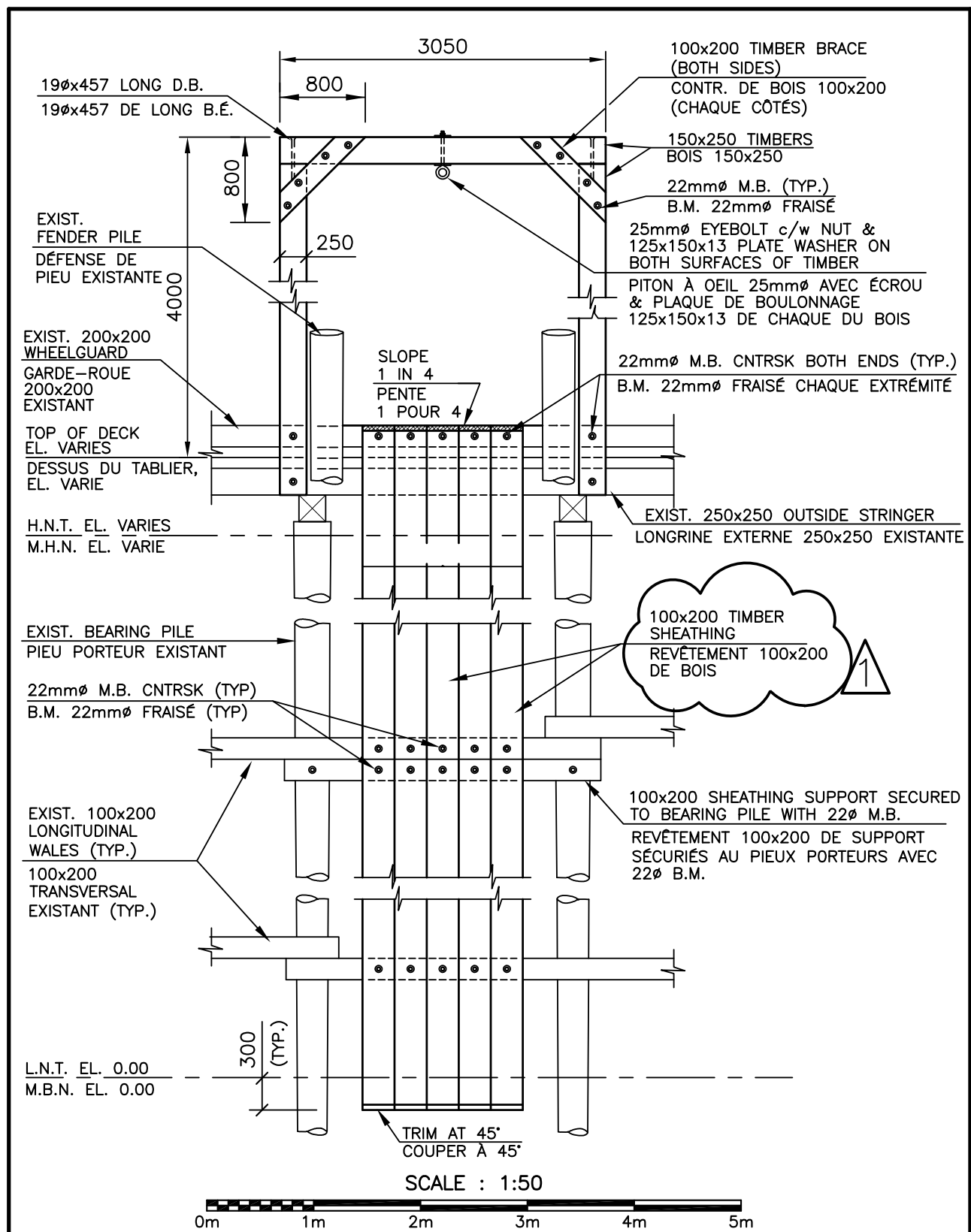
- .1 Materials to applicable sections.


PART 3-EXECUTION

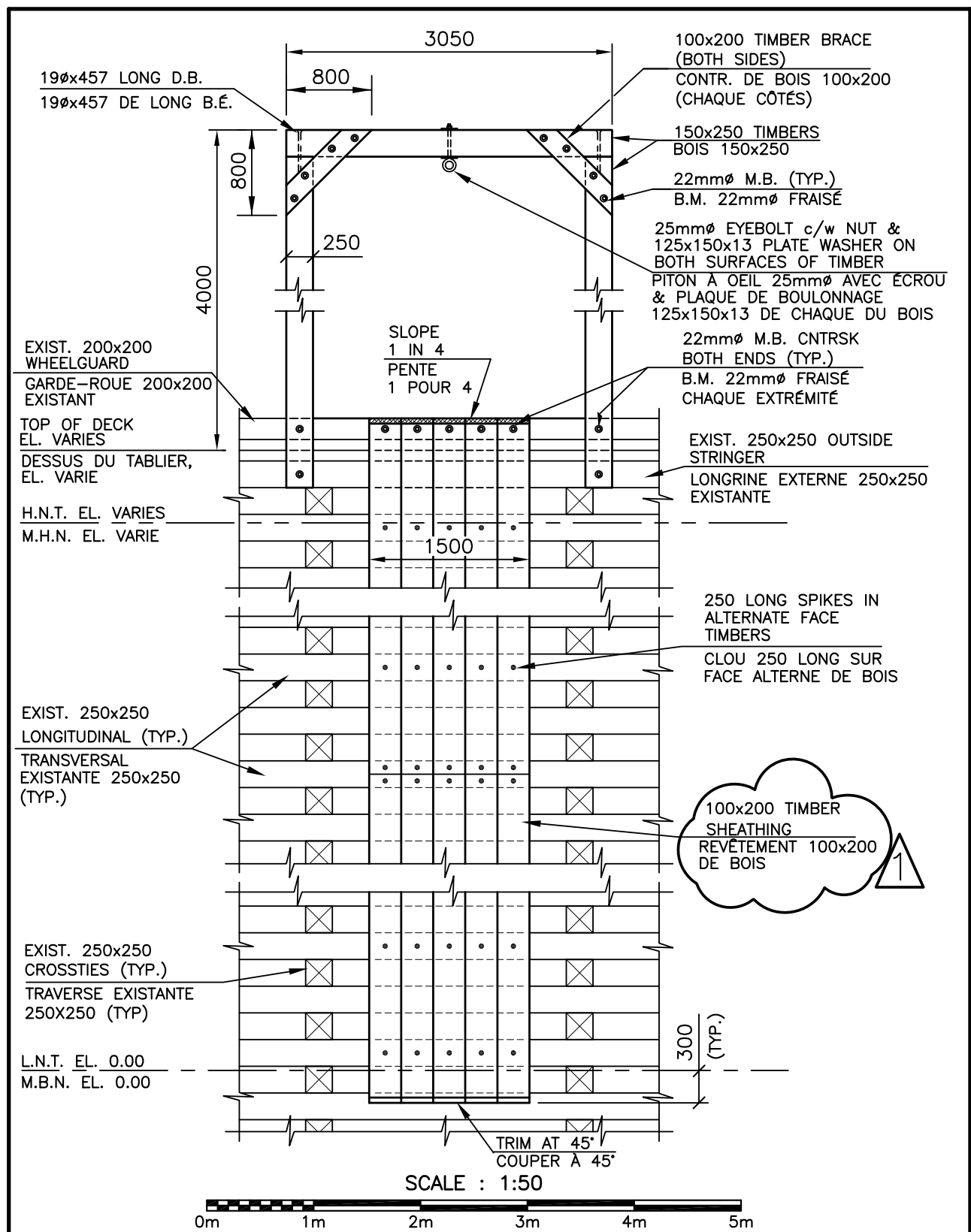
3.1 General


- .1 Do all execution to applicable codes and standards.

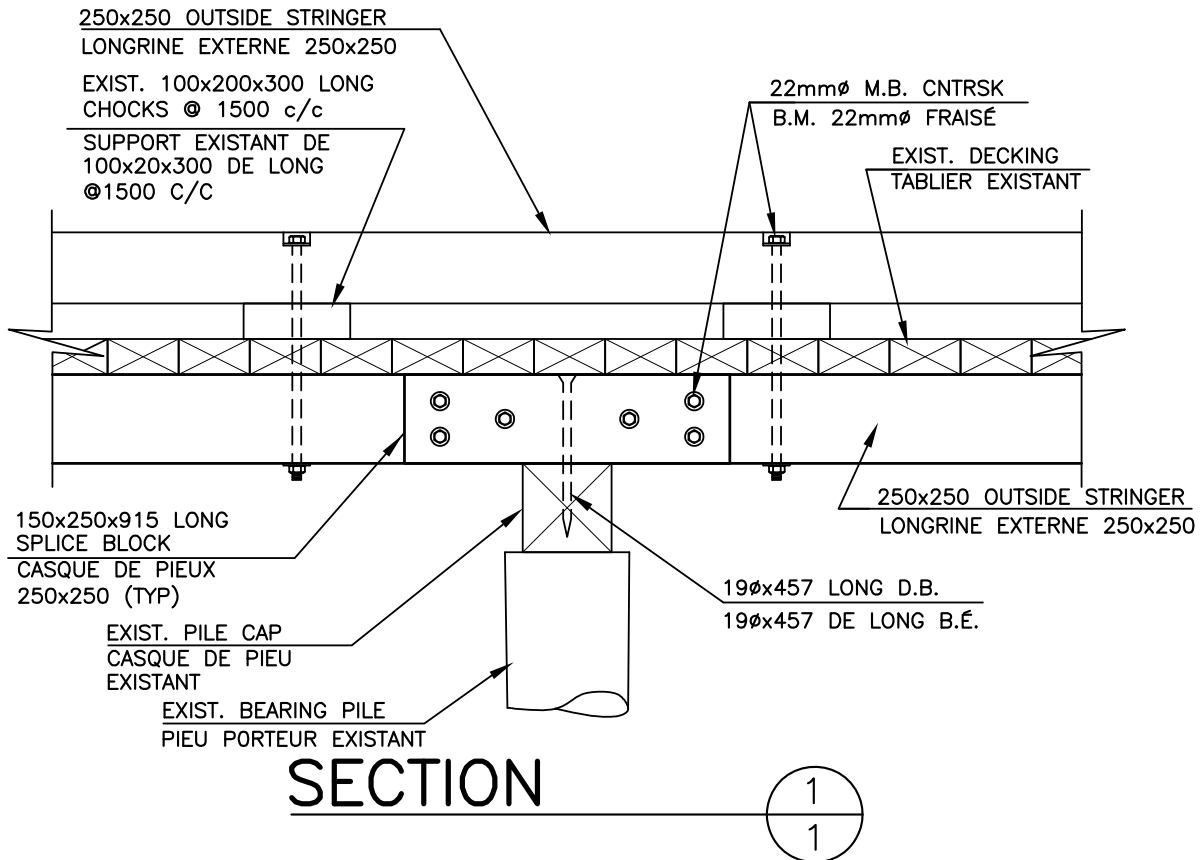
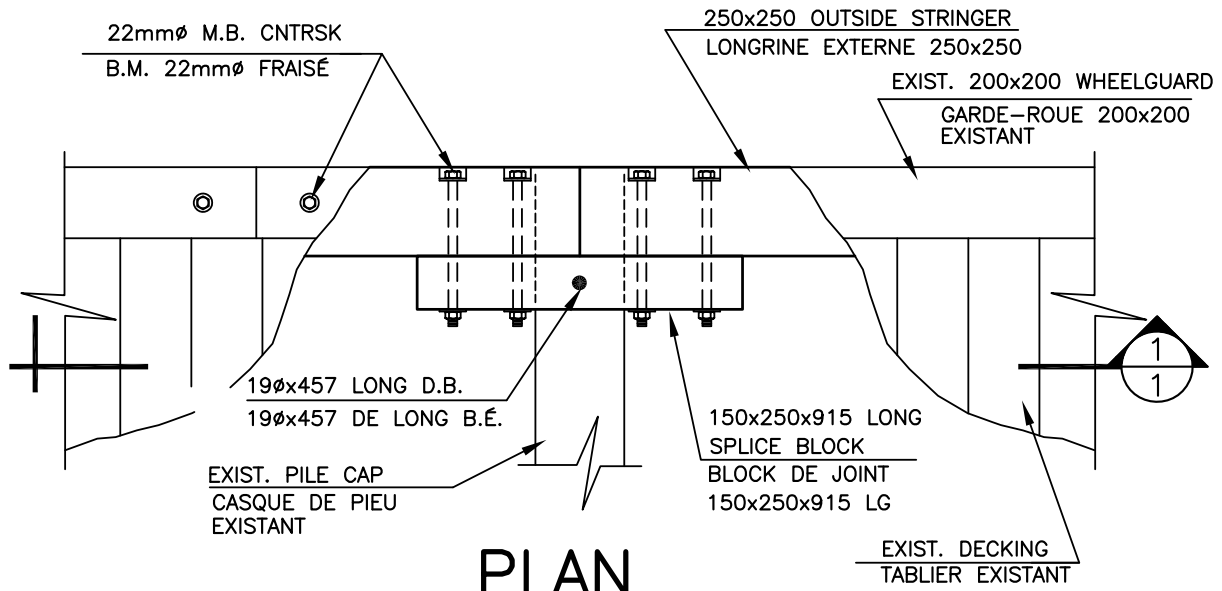
END OF SECTION



 <div>Public Works and Government Services Canada</div>	<div>Travaux publics et Services gouvernementaux Canada</div>	Drawing title Titre du dessin		designed conçu	date		
		<div>GALLONS ON TIMBER DECK DETAIL POTENCE SUR TABLIER DE BOIS</div>		drawn dessiné	date		
				J. KOVAL	FEB./FEV 2014		
				approved approuvé	date		
		project	projet				
		<div>MINOR WORKS SOUTHWEST, N.B. PROJETS MINEURS SUD-OUEST, N.-B. SCH / PPB</div>		Tender Soumission			
PWGSC Project Manager		Administrateur de projets TPSGC					
project number	no. du projet	drawing no.	no. du dessin				
		D1					



 <div>Public Works and Government Services Canada</div>	<div>Travaux publics et Services gouvernementaux Canada</div>	<div>Drawing title Titre du dessin</div> <div>GALLOWS ON CRIBWORK WHARF DETAIL</div> <div><i>DÉTAIL DE POTENCE SUR QUAI EN CAISSON</i></div>	<div>designed conçu</div>	date
			<div>drawn dessiné</div> <div>J. KOVAL</div>	date FEB./FEV 2014
			<div>approved approuvé</div>	date
		<div>project</div> <div>MINOR WORKS SOUTHWEST, N.B.</div> <div><i>PROJETS MINEURS SUD-OUEST, N.-B.</i></div> <div>SCH / PPB</div>	<div>project</div>	<div>Tender</div> <div>PWGSC Project Manager</div> <div>project number</div>



SCALE : 1:20

0mm 500mm 1000mm 1500mm 2000mm 2500mm



Public Works and
Government Services
Canada

Travaux publics et
Services gouvernementaux
Canada

project

**MINOR WORKS
SOUTHWEST, N.B.
PROJETS MINEURS
SUD-OUEST, N.-B.
SCH / PPB**

project

Drawing title

Titre du dessin

designed

conçu

date

**OUTSIDE STRINGER
SPICE DETAIL**

drawn

dessiné

date

**DÉTAIL DE JOINT DE
LONGRINE EXTERNE**

approved

approuvé

date

Tender

Soumission

PWGSC Project Manager

Administrateur de projets TPSGC

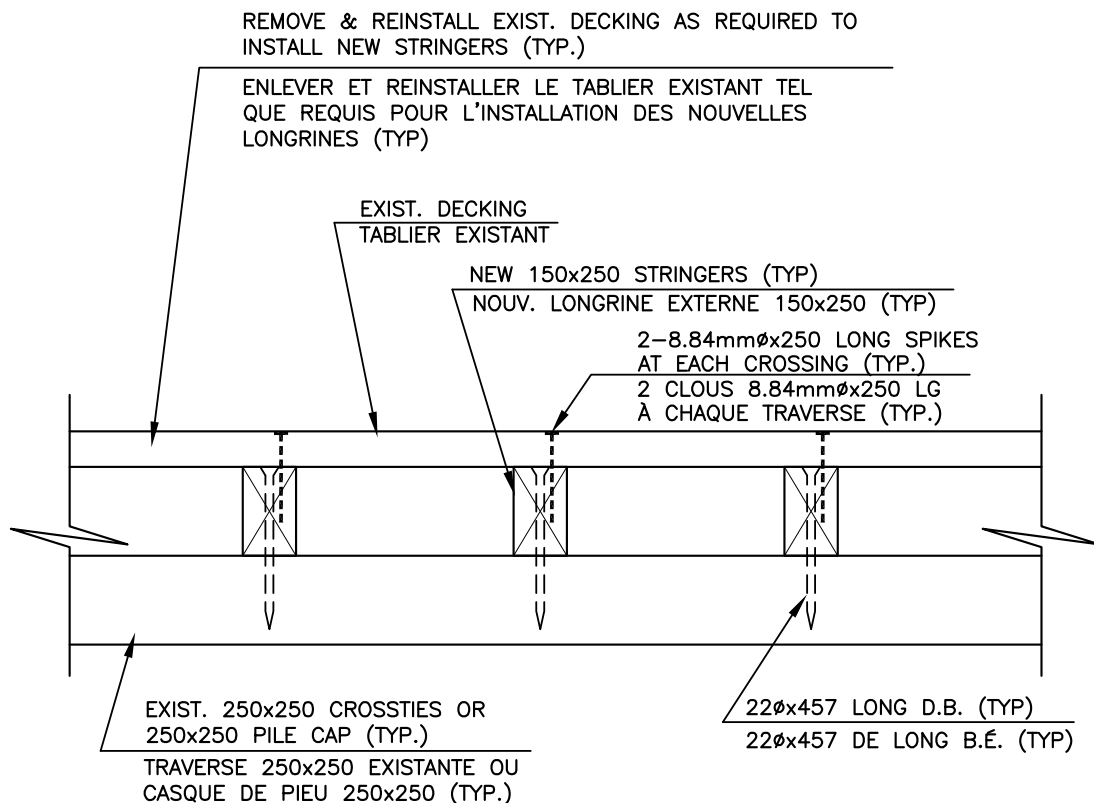
project number

no. du projet

drawing no.

no. du dessin

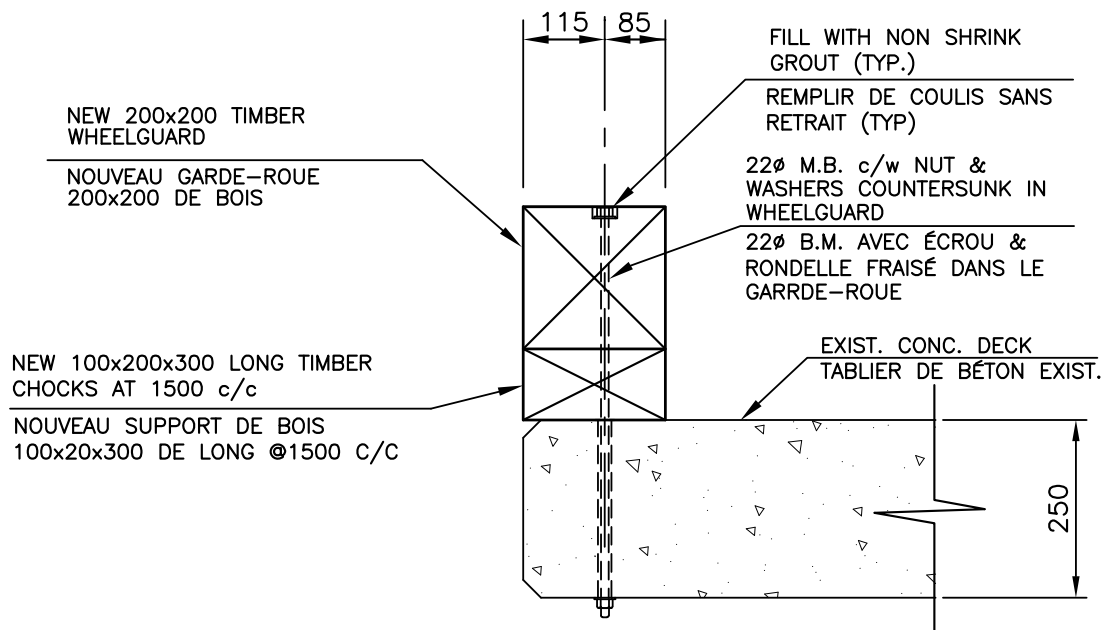
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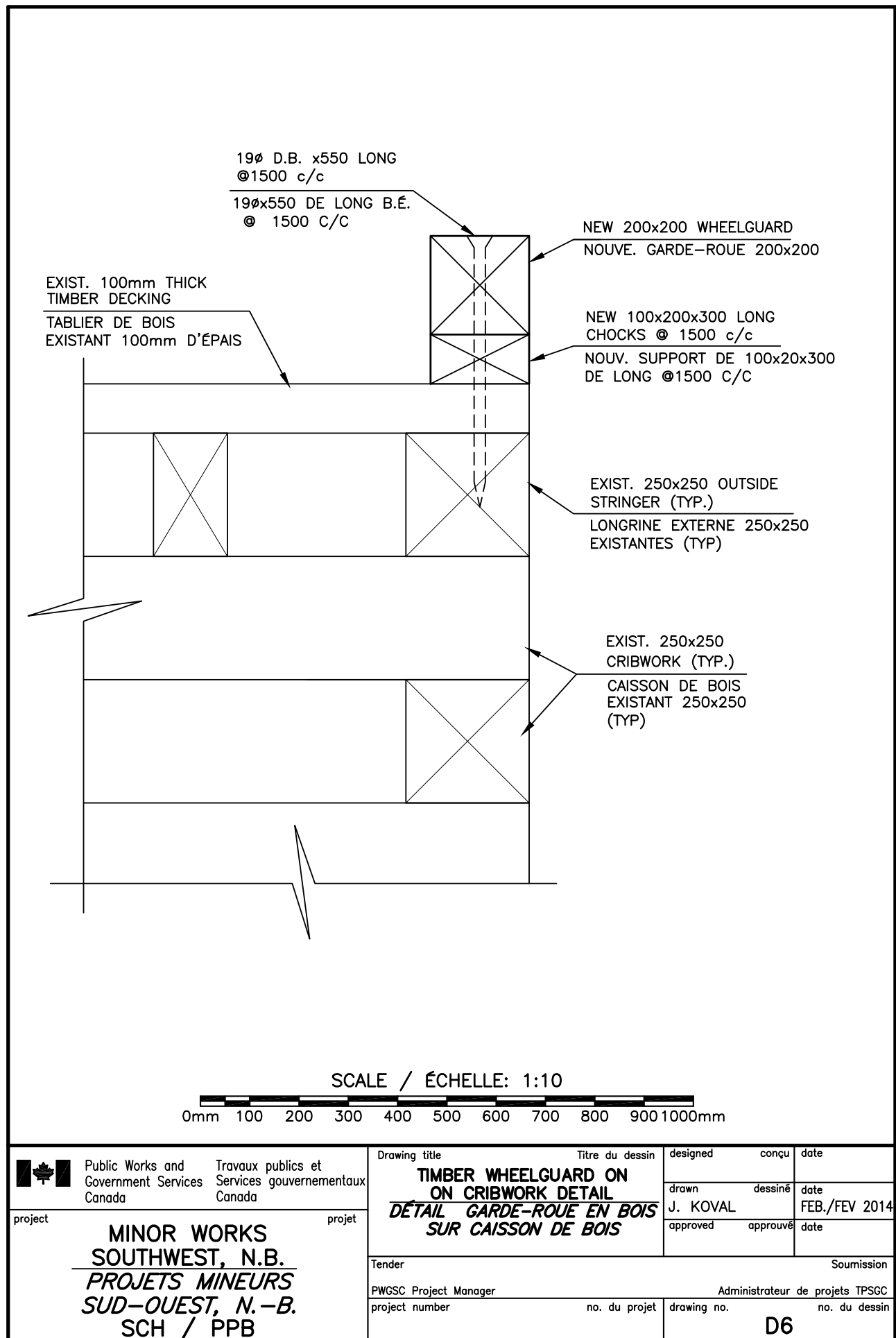
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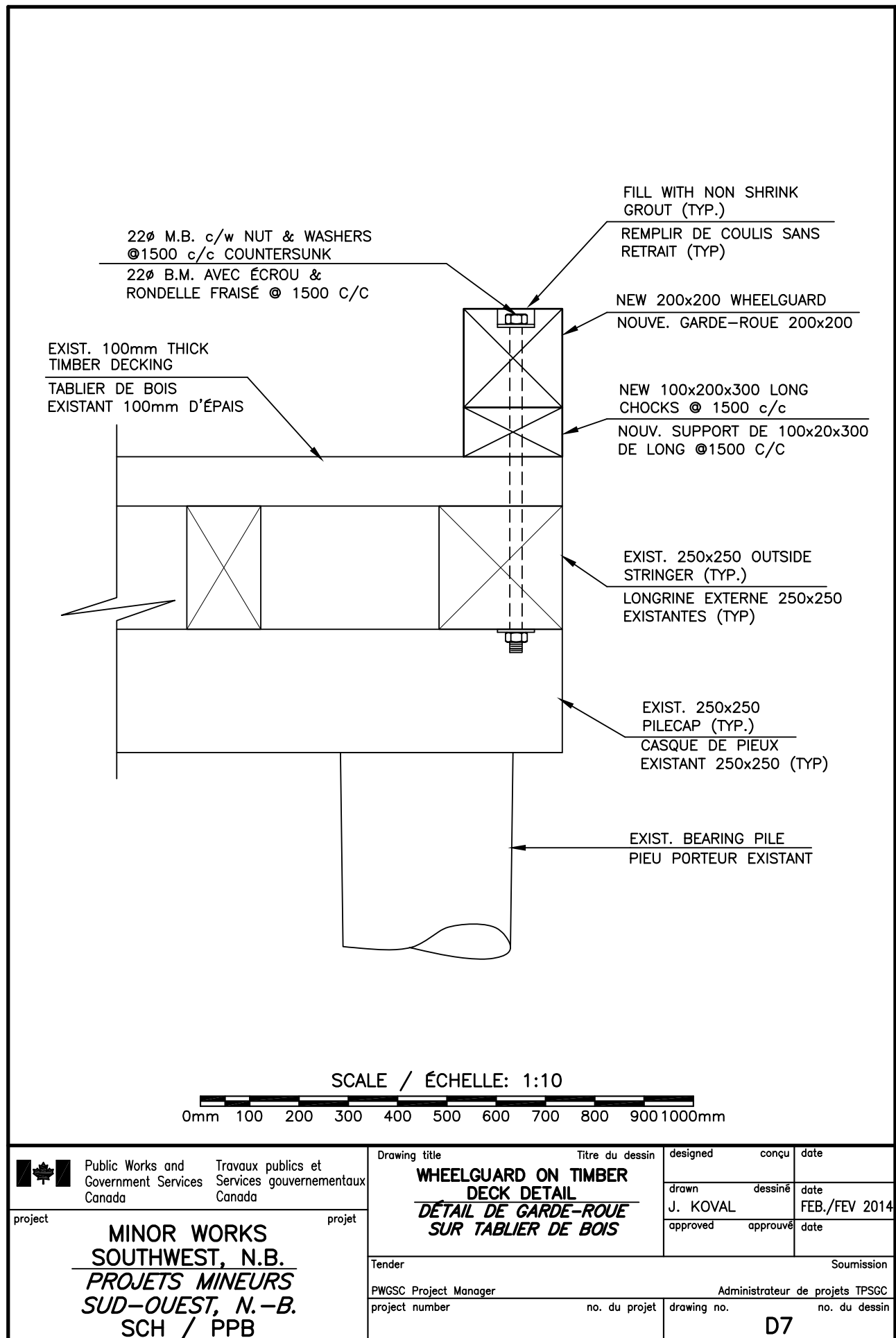


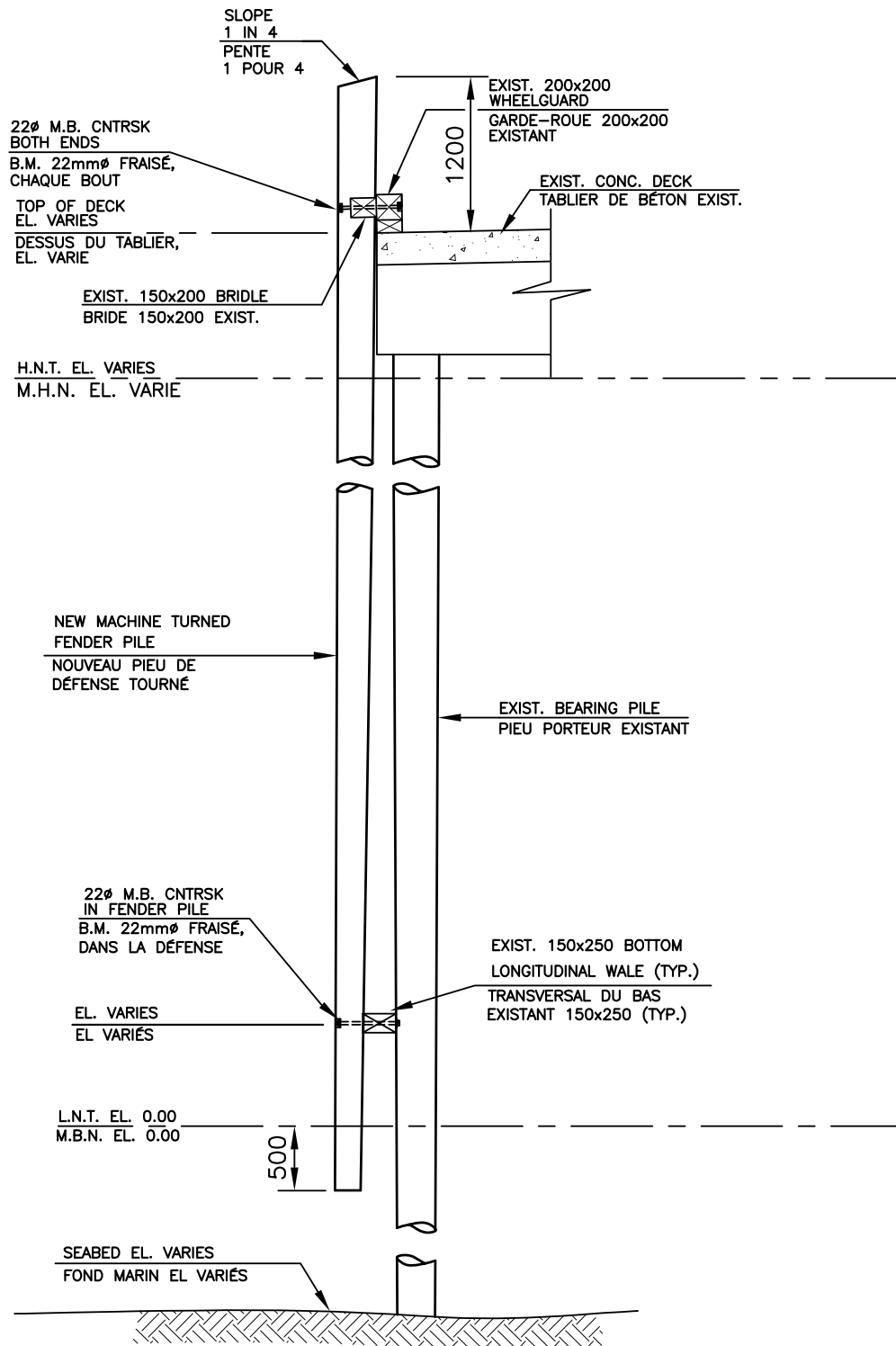
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			STRINGER DETAIL DÉTAIL DE LONGRINE		drawn dessiné	date
project MINOR WORKS SOUTHWEST, N.B. PROJETS MINEURS SUD-OUEST, N.-B. SCH / PPB			Tender		Soumission	
			PWGSC Project Manager		Administrateur de projets TPSGC	
			project number	no. du projet	drawing no.	no. du dessin
					D4	



 Public Works and Government Services Canada Travaux publics et Services gouvernementaux Canada	Drawing title TIMBER WHEELGUARD ON CONCRETE DECK DETAIL DÉTAIL DE GARDE-ROUE EN BOIS SUR TABLIER DE BÉTON	designed conçu	date
		drawn J. KOVAL	date FEB./FEV 2014
project MINOR WORKS SOUTHWEST, N.B. PROJETS MINEURS SUD-OUEST, N.-B. SCH / PPB	project Tender PWGSC Project Manager project number	approved approuvé	date Soumission Administrateur de projets TPSGC no. du dessin
		drawing no. D5	







SCALE : 1:50



Public Works and
Government Services
Canada

Travaux publics et
Services gouvernementaux
Canada

project

**MINOR WORKS
SOUTHWEST, N.B.
PROJETS MINEURS
SUD-OUEST, N.-B.
SCH / PPB**

project

Drawing title

Titre du dessin

designed

conçu

date

**FENDER PILE DETAIL
DÉTAIL PIEUX DE DÉFENSE**

drawn
J. KOVAL

dessiné

date
FEB./FEV 2014

approved

approuvé

date

Tender

Soumission

PWGSC Project Manager

Administrateur de projets TPSGC

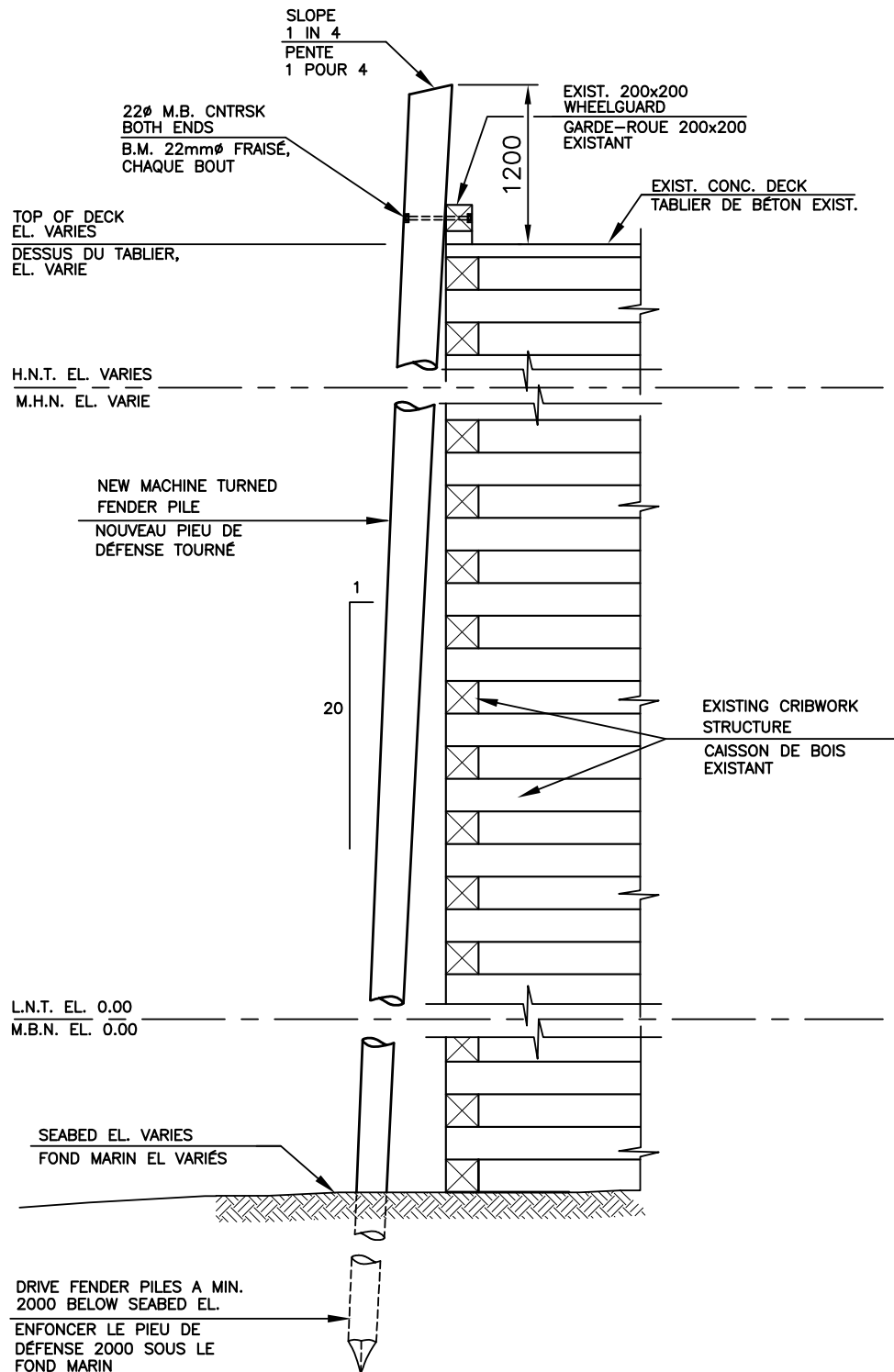
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no. du projet

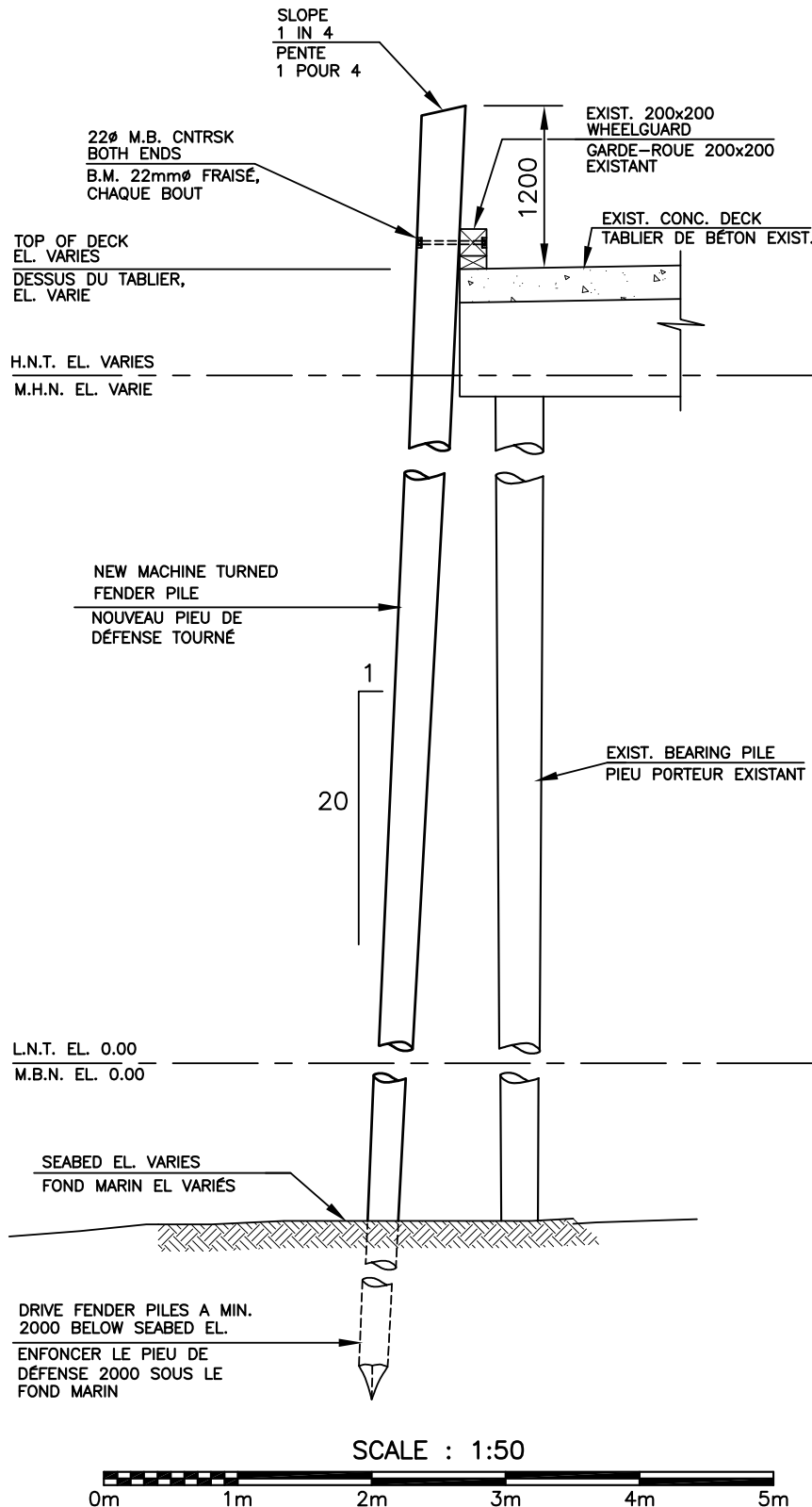
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no. du dessin

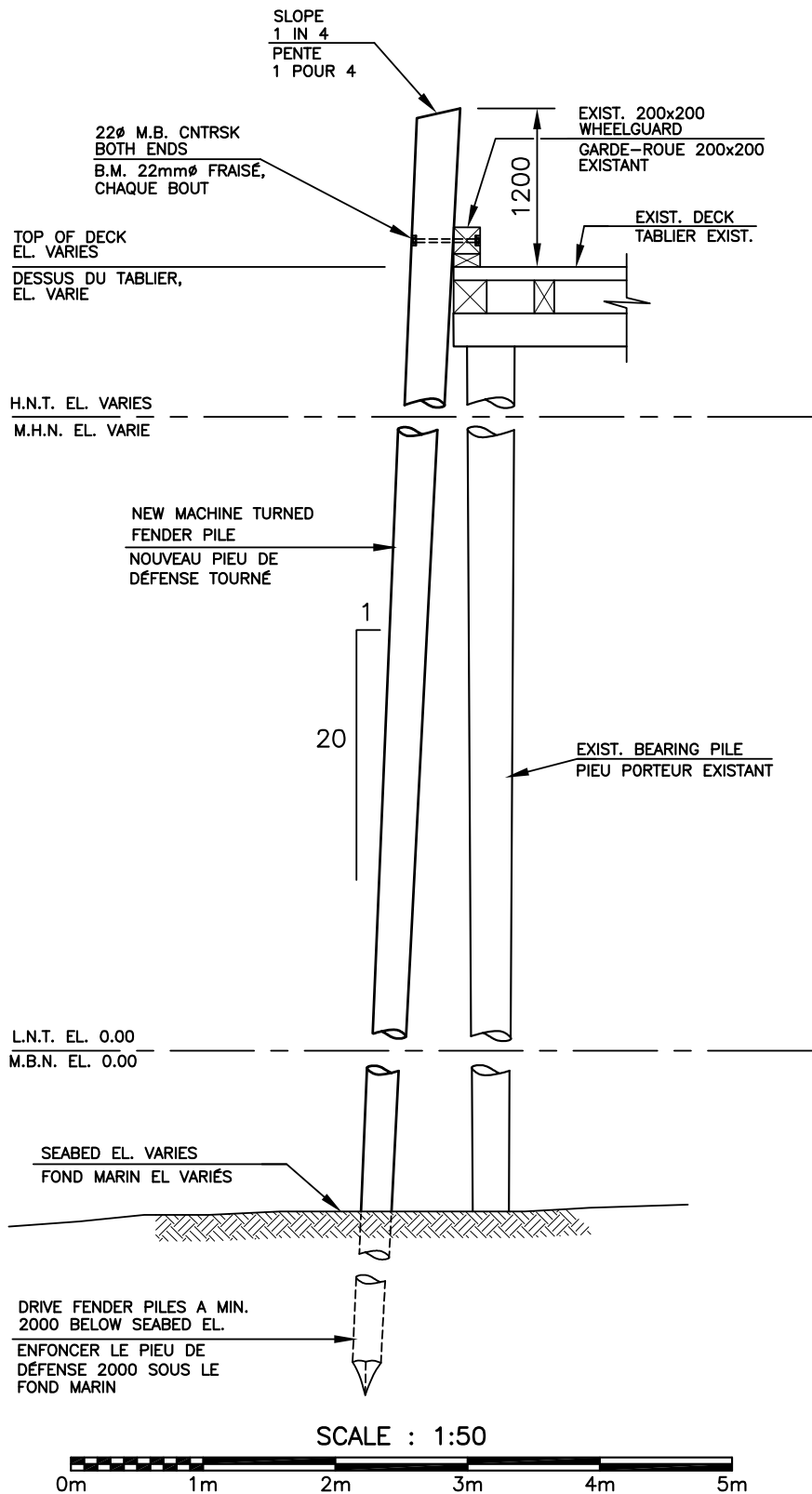
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 Public Works and Government Services Canada	Travaux publics et Services gouvernementaux Canada	Drawing title		Titre du dessin		designed	conçu	date
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project MINOR WORKS SOUTHWEST, N.B. PROJETS MINEURS SUD-OUEST, N.-B. SCH / PPB	project	Tender				Soumission		
		PWGSC Project Manager		Administrateur de projets TPSCG				
		project number		no. du projet		drawing no.		no. du dessin
						D9		



 <div>Public Works and Government Services Canada</div>	<div>Travaux publics et Services gouvernementaux Canada</div>	Drawing title Titre du dessin		designed conçu	date
		<div>FENDER PILE CONCRETE DECK DÉTAIL PIEU DE DÉFENSE TABLIER DE BÉTON</div>		drawn dessiné	date
				J. KOVAL	FEB./FEV 2014
		project		approved approuvé	date
<div>MINOR WORKS SOUTHWEST, N.B. PROJETS MINEURS SUD-OUEST, N.-B. SCH / PPB</div>		Tender Soumission			
		PWGSC Project Manager		Administrateur de projets TPSGC	
		project number	no. du projet	drawing no.	no. du dessin
				D10	



Public Works and
Government Services
Canada

Travaux publics et
Services gouvernementaux
Canada

project

**MINOR WORKS
SOUTHWEST, N.B.
PROJETS MINEURS
SUD-OUEST, N.-B.
SCH / PPB**

project

Drawing title

Titre du dessin

designed

conçu

date

**FENDER PILE ON
WOOD DECK DETAIL
DÉTAIL PIEU DE DÉFENSE
TABLIER DE BOIS**

drawn
J. KOVAL

dessiné

date

FEB./FEV 2014

approved

approuvé

date

Tender

Soumission

PWGSC Project Manager

Administrateur de projets TPSCG

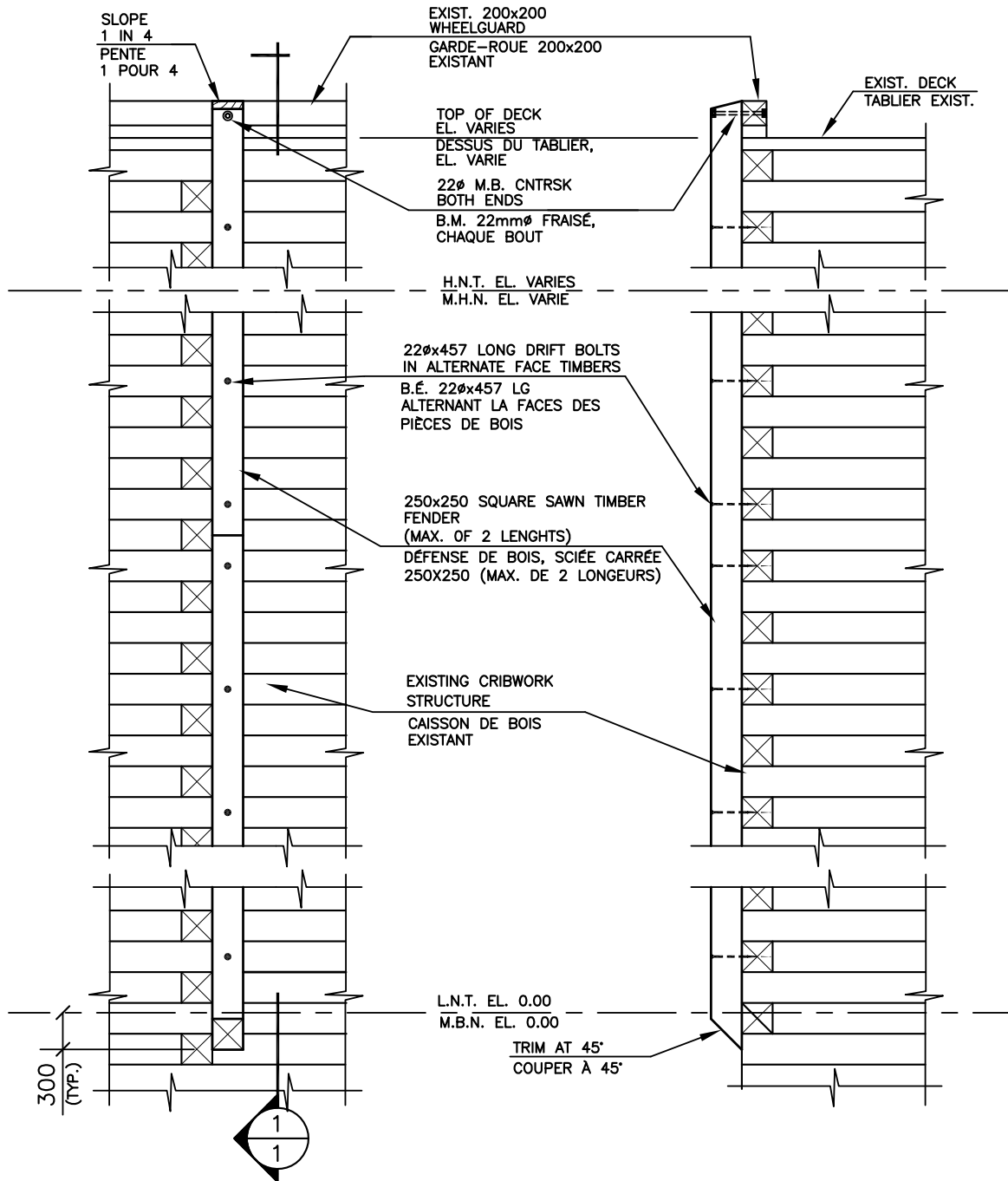
project number

no. du projet

drawing no.

no. du dessin

D11




ELEVATION

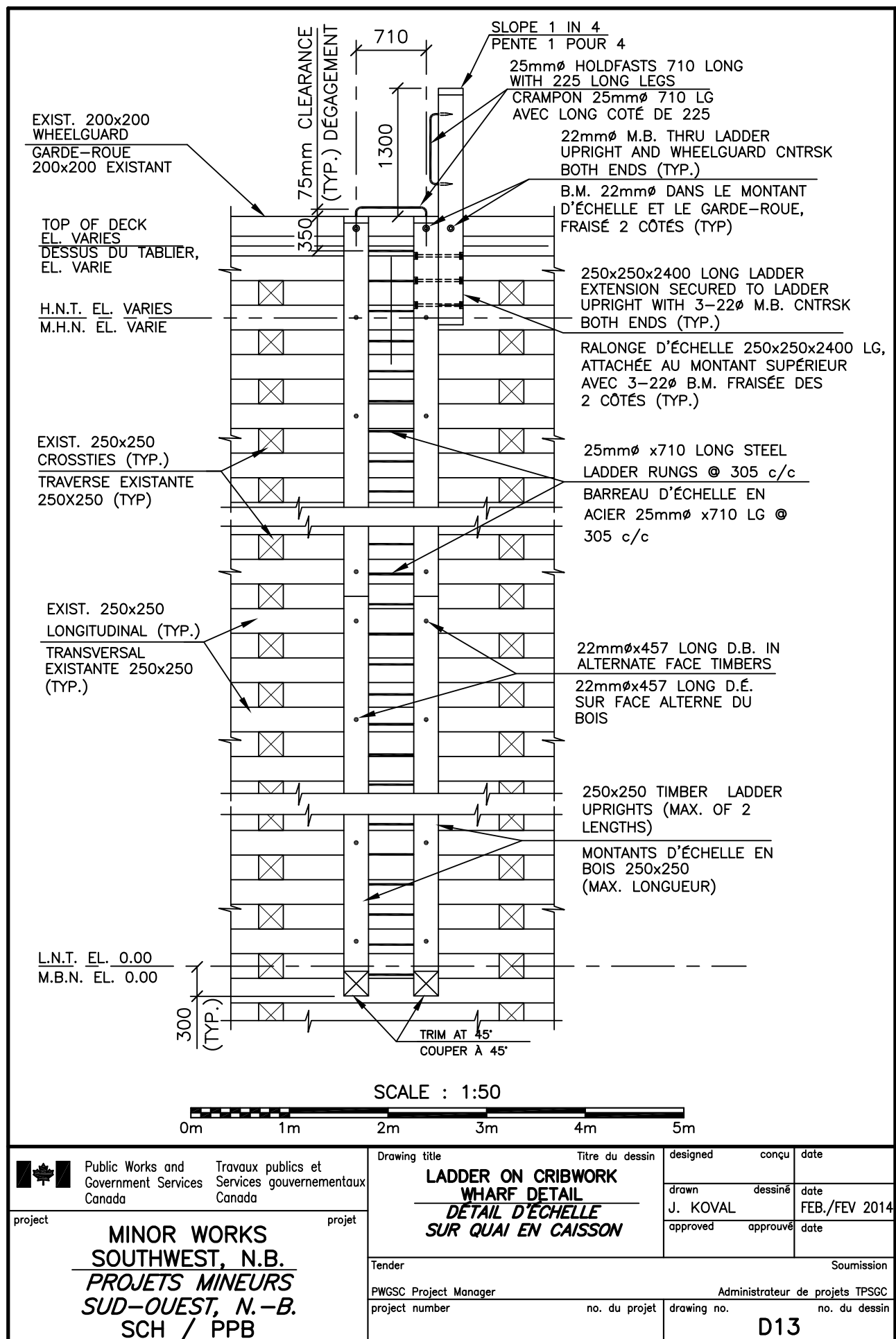
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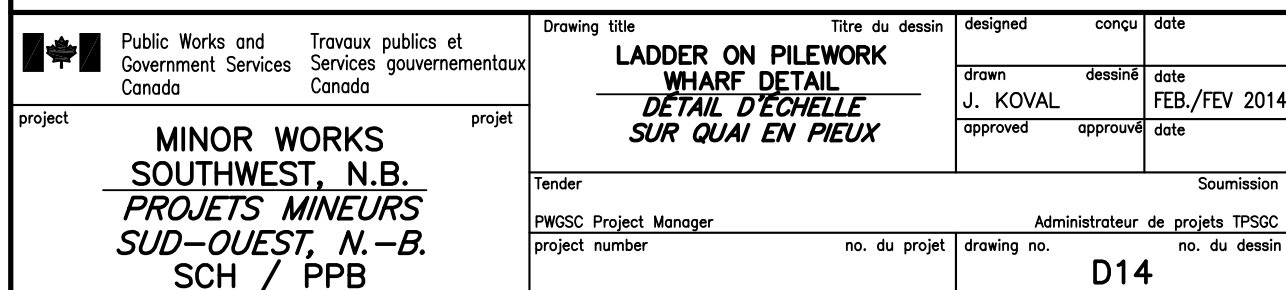


SCALE : 1:50



 <div>Public Works and Government Services Canada</div>	<div>Travaux publics et Services gouvernementaux Canada</div>	Drawing title		Titre du dessin		designed		conçu		date			
		<div>SQUARE SAWN TIMBER</div> <div>FENDER DETAIL</div> <div>DEFENSE DE BOIS</div> <div>SCIÉE CARRÉE</div>						drawn		dessiné		date	
								J. KOVAL				FEB./FEV 2014	
								approved		approuvé		date	
project		project		Tender								Soumission	
<div>MINOR WORKS</div> <div>SOUTHWEST, N.B.</div> <div>PROJETS MINEURS</div> <div>SUD-OUEST, N.-B.</div> <div>SCH / PPB</div>				PWGSC Project Manager								Administrateur de projets TPSGC	
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								D12					



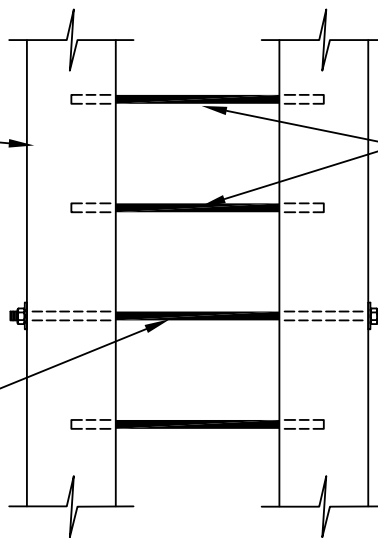


EXIST. 250x250 TIMBER
LADDER UPRIGHT

MONTANT D'ÉCHELLE EN
BOIS 250x250

25mmØ STEEL ROD THREADED
BOTH ENDS
c/w NUTS & WASHERS

25mmØ TIGES FILETÉE CHAQUE
BOUTS AVEC ÉCROU &
RONDELLE



25mmØ x 710 LONG STEEL
LADDER RUNGS @ 305 c/c

BARREAUX D'ÉCHELLE EXISTANTS
EN ACIER 25mmØ @ 305 c/c

SCALE : 1:20



Public Works and
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Canada

Travaux publics et
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project

**MINOR WORKS
SOUTHWEST, N.B.
PROJETS MINEURS
SUD-OUEST, N.-B.
SCH / PPB**

projet

Drawing title

Titre du dessin

**LADDER RUNG
REPAIR DETAIL
DÉTAIL DE RÉPARATION
D'UN BARREAU D'ÉCHELLE**

designed

conçu

date

drawn
J. KOVAL

dessiné

date

FEB./FEV 2014

approved

approuvé

date

Tender

Soumission

PWGSC Project Manager

Administrateur de projets TPSGC

project number

no. du projet

drawing no.

no. du dessin

D15

2-32mm ϕ GALVANIZED
STEEL BAR. @ 1250 C/C

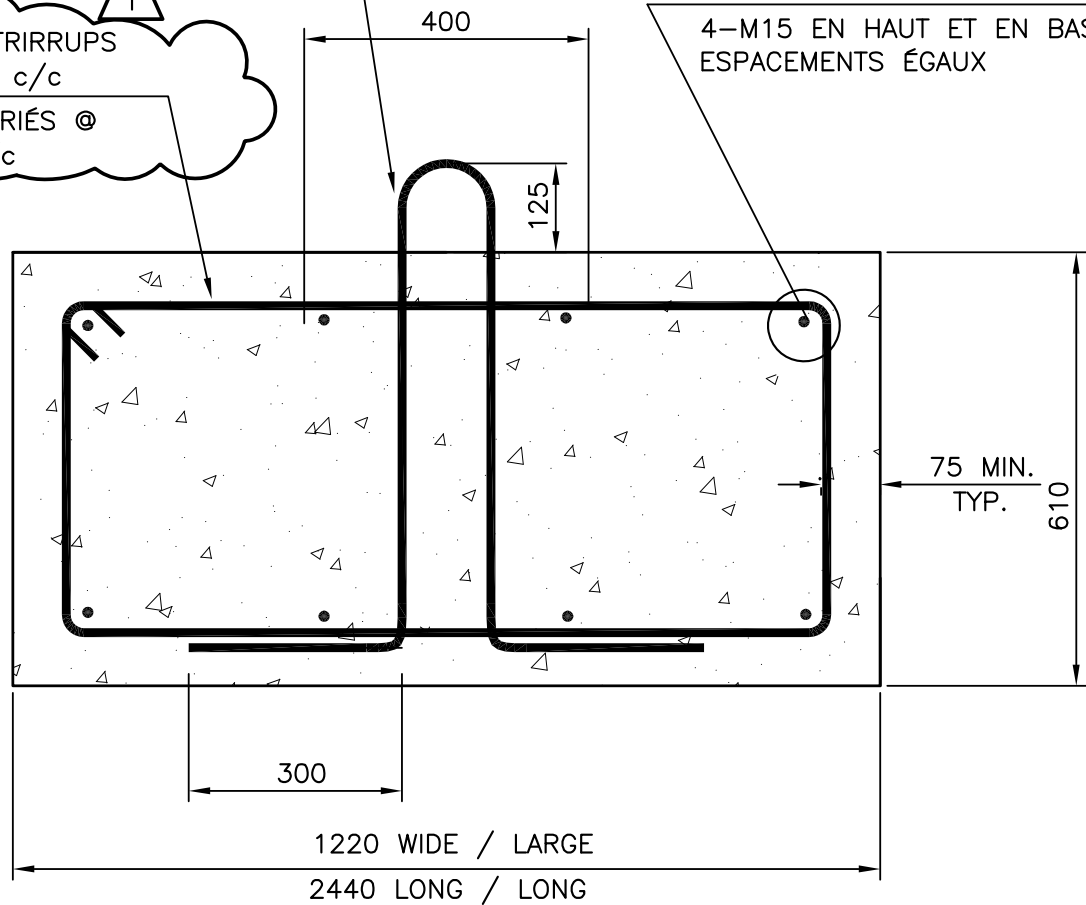
2-32mm ϕ TIGES EN ACIER
GALVANIÉES @ 1250 C/C

15M STRIRRUPS
@ 250 c/c

M15 ÉTRIÉS @
250 c/c

4-15M TOP AND BOTTOM
EQUALLY SPACED

4-M15 EN HAUT ET EN BAS
ESPACEMENTS ÉGAUX



SCALE / ÉCHELLE: 1:10

0mm 100 200 300 400 500 600 700 800 900 1000mm



Public Works and
Government Services
Canada

Travaux publics et
Services gouvernementaux
Canada

project

**MINOR WORKS
SOUTHWEST, N.B.
PROJETS MINEURS
SUD-OUEST, N.-B.
SCH / PPB**

projet

Drawing title

Titre du dessin

**CONCRETE ANCHOR
BLOCK DETAIL
DÉTAIL D'UN BLOC
D'ANCRAGE EN BÉTON**

designed

conçu

date

drawn
J. KOVAL

dessiné

date
FEB./FEV 2014

approved

approuvé

date

Tender

Soumission

PWGSC Project Manager

Administrateur de projets TPSGC

project number

no. du projet

drawing no.

no. du dessin

D16