

1.1 SCOPE OF WORK

- .1 The Work under this Contract consists of the supply of all labour, materials, and equipment required to demolish the existing wharf structure at Seal Cove, Connaigre Bay, NL and replace it with a new timber crib finger pier as described in the Contract Drawings and in this Specification.

1.2 DESCRIPTION

- .1 In general, the Work under this contract consists of, but will not necessarily be limited to, the following:
- .1 Site Work including mobilization, demobilization, excavation, demolition, hauling, and disposal offsite and onsite.
 - .2 Any required survey to set location of new Work as indicated on the drawings.
 - .3 Dredging below Lowest Normal Tide (L.N.T.) as required.
 - .4 Construction of timber cribwork with associated rock ballast, fendering, wheelguard and blocking, Type "A" and "B1" mooring cleats and blocks, and ladders.
 - .5 Installation of electrical conduit associated with the installation of one (1) utility pole, two (2) electrical pedestals, and one (1) jib crane.
 - .6 Supply and placement of new quarried rock fill and Class "A" granular material.
 - .7 Supply and placement of armour stone
 - .8 Construction of reinforced concrete wharf deck and approach slab on grade.
 - .9 Installation of a new jib crane

with fixtures supplied by
Canada.

- .10 Supply and installation of one
(1) new utility pole with light
fixtures supplied by Canada.
- .11 Supply and installation of one
(1) electrical pedestal and
completion of the electrical
scope of work as indicated on
the drawings and in this
specification.

1.3 SITE OF WORK

- .1 Work will be carried out at Seal
Cove, Connaigre Bay, Newfoundland and
Labrador in the location indicated on
the accompanying drawings.

1.4 DATUM

- .1 The datum used for this project is
Lowest Normal Tides (L.N.T.) which is
assumed to be 3.358m below control
point PWC 5-96, a nail ramset in
wharf deck.
- .2 Bidders are advised to consult the
Tide Tables issued by the Department
of Fisheries and Oceans in order to
make sure of the tidal conditions
affecting Work.

1.5 FAMILIARIZATION WITH SITE

- .1 Before submitting a bid, it is
recommended that bidders visit the
site and its surroundings to review
and verify the form, nature, and
extent of the Work, materials needed
for completion of the Work, and the
means of access to the site. The
bidders shall also review and verify
the severity, exposure, and
uncertainty of weather, soil
conditions, any accommodations they
may require, and in general shall
obtain all necessary information as

to risks, contingencies, and other circumstances which may influence or affect their bid. No allowance shall be made in this regard on account of error or negligence in properly determining the conditions that will apply.

- .2 Contractors, bidders, or those they invite to site are to review Section 01 35 28 - Health and Safety Requirements before visiting site. Take all appropriate safety measures for any visit to site, either before or after acceptance of bid.

1.6 CODES AND STANDARDS

- .1 Perform Work in accordance with the latest edition of the National Building Code of Canada, FC Standard 373 - Standard for Piers and Wharves, and any other codes of provincial or local application, including all amendments up to bid closing date, provided that in any case of conflict or discrepancy, the more stringent requirement shall apply.
- .2 Materials and workmanship must meet or exceed requirements of specified standards, codes, and referenced documents.

1.7 TERM ENGINEER

- .1 Unless specifically stated otherwise, the term Engineer where used in the Specifications and on the Drawings shall mean the Departmental Representative as defined in the General Conditions of the Contract.

1.8 SETTING OUT WORK

- .1 Set grades and layout Work in detail from control points and grades established by Departmental

Representative.

- .2 Assume full responsibility for and execute complete layout of Work to locations, lines, and elevations indicated.
- .3 Provide devices needed to lay out and construct Work.
- .4 Supply such devices as straight edges and templates required to facilitate Departmental Representative's inspection of Work.
- .5 Supply stakes and other survey markers required for laying out Work.

1.9 MEASUREMENT
FOR PAYMENT

- .1 Notify Departmental Representative sufficiently in advance of operations to permit required measurements for payment.
- .2 Regarding items included under "Measurement for Payment" throughout Specifications: all lump sum and all unit price items shall include all materials, labour, equipment, and all other items necessary to complete the Work.
- .3 All other information regarding measurement for payment for the various portions of the required Work are found in the relevant Sections of the Specifications.

1.10 COST BREAKDOWN

- .1 Before submitting first progress claim submit breakdown of Contract price in detail as directed by Departmental Representative and aggregating contract price. Departmental Representative will

provide the required forms for application of progress payment.

- .2 Provide cost breakdown in same format as the numerical and subject title system used in this specification and thereafter sub-divided into major Work components as directed by Departmental Representative.
- .3 Upon approval by Departmental Representative, cost breakdown will be used as basis for progress payment.
- .4 All Work items and costs not designated in the unit price table as a measurement for payment are to be included in the lump sum arrangement, as noted on the Bid and Acceptance Form.

1.11 WORK SCHEDULE

- .1 Submit within seven (7) working days of notification of acceptance of bid, a construction schedule showing commencement and completion of all Work within the time stated on the Bid and Acceptance form and the date stated in the bid acceptance letter.
- .2 Provide sufficient details in schedule to clearly illustrate entire implementation plan, depicting efficient coordination of tasks and resources, to achieve completion of Work on time and permit effective monitoring of Work progress in relation to established milestones.
- .3 As a minimum, Work schedule to be prepared and submitted in the form of bar (GANTT) charts, indicating Work activities, tasks, and other project elements, their anticipated

durations, and planned dates for achieving key activities and major project milestones provided in sufficient details and supported by narratives to demonstrate a reasonable plan for completion of project within designated time (e.g., show target dates for completion of each crib, if applicable). Break down the wharf into elements to indicate target dates for completion of each element. Generally, bar charts derived from commercially available computerized project management systems are preferred but not mandatory.

- .4 Submit schedule updates on a minimum monthly basis and more often, when requested by Departmental Representative, due to frequent changing project conditions. Provide a narrative explanation of necessary changes and schedule revisions at each update.
- .5 The schedule, including all updates, shall be to the Departmental Representative's approval. Take necessary measures to complete Work within approved time. Do not change schedule without Departmental Representative's approval.
- .6 All Work on the project will be completed within the time indicated on the Bid and Acceptance Form.

1.12 ABBREVIATIONS

- .1 The following abbreviations of standard specifications have been used in this Specification and on the Contract Drawings:

CGSB - Canadian Government

Specifications Board
CSA - Canadian Standards Association
NLGA - National Lumber Grades
Authority
ASTM - American Society for Testing
and Materials

- .2 Where these abbreviations and standards are used in this project, latest edition in effect on date of bid call will be considered applicable.

1.13 QUARRY AND
EXPLOSIVES

- .1 Make own arrangements with Provincial Authorities and Owners of properties, for the quarrying and transportation of rock and all materials and machinery necessary for Work over their property, roads, or streets as case may be.

1.14 SITE
OPERATIONS

- .1 Arrange for sufficient space adjacent to project site to conduct operations, storage of materials, etc. Exercise care so as not to obstruct or damage public or private property in area. Do not interfere with normal day-to-day operations in progress at site. All arrangements for space and access will be made by Contractor.
- .2 Remove snow and ice, as required, to maintain safe access in a manner that does not damage existing structures or interfere with the operations of others.

1.15 PROJECT
MEETINGS

- .1 Departmental Representative will arrange project meetings and assume responsibility for setting times and recording minutes.

.2 Project meetings will take place on site of Work unless otherwise directed by Departmental Representative.

.3 Departmental Representative will assume responsibility for recording minutes of meetings and forwarding copies to all parties present at meetings.

.4 Have a responsible member of firm present at all Project Meetings.

1.16 PROTECTION

.1 Store all materials and equipment to be incorporated into Work to prevent damage by any means.

.2 Repair and replace all materials or equipment damaged in transit or storage to the satisfaction of the Departmental Representative and at no cost to Canada.

1.17 EXISTING SERVICES

.1 Where Work involves breaking into or connecting to existing services, carry out Work at times directed by governing authorities, with minimum of disturbance to site operations.

.2 Before commencing Work, establish location and extent of service lines in area of Work and notify Departmental Representative of findings.

.3 Submit schedule to and obtain approval from Departmental Representative for any shut-down or closure of active service or facility. This includes disconnection of electrical power and communication

services to tenant's operational areas. Adhere to approved schedule and provide notice to affected parties.

- .4 Provide temporary services, when directed by Departmental Representative, to maintain critical facility systems.
- .5 Provide adequate bridging over trenches which cross walkways or roads to permit normal traffic.
- .6 Where unknown services are encountered, immediately advise Departmental Representative and confirm findings in writing.
- .7 Protect, relocate, or maintain existing active services as required. When inactive services are encountered, cap off in a manner approved by authorities having jurisdiction over service. Record locations of maintained, re-routed, and abandoned service lines.

1.18 REQUIRED DOCUMENTS

- .1 Maintain at job site, one (1) copy each of the following:
 - .1 Contract drawings;
 - .2 Specifications;
 - .3 Addenda;
 - .4 Reviewed shop drawings;
 - .5 List of outstanding shop drawings;
 - .6 Change Orders;
 - .7 Other modifications to contract;
 - .8 Field test reports;
 - .9 Copy of approved Work schedule;
 - .10 Site specific Health and Safety Plan and other safety related documents;
 - .11 Permits and Regulatory Approvals

and Requirements;

- .12 Other documents as stipulated elsewhere in the Contract Documents.

1.19 PERMITS

- .1 Obtain and pay for all permits, certificates, and licenses as required by Municipal, Provincial, Federal, and other Authorities.
- .2 Provide appropriate notifications of project to Municipal and Provincial inspection authorities.
- .3 Obtain compliance certificates as prescribed by legislative and regulatory provisions of Municipal, Provincial, and Federal authorities as applicable to the performance of Work.
- .4 Submit to Departmental Representative, copy of application submissions and approval documents received for above referenced authorities.
- .5 Submit to Departmental Representative, copy of quarry permit, if applicable, prior to start of quarry operations.
- .6 Comply with all requirements, recommendations, and advise by all regulatory authorities unless otherwise agreed in writing by Departmental Representative. Make requests for such deviations to these requirements sufficiently in advance of related Work.
- .7 See Appendix "A" for Regulatory Approvals and Responses already obtained by Canada for this project.

1.20 CUTTING,
FITTING AND
PATCHING

- .1 Execute cutting, including excavation, fitting, and patching required to make Work fit properly.
- .2 Where new Work connects with existing and where existing Work is altered, cut, patch, and make good to match existing Work.
- .3 Do not cut, bore, or sleeve load-bearing members.
- .4 Make cuts with clean, true, smooth edges. Make patches inconspicuous in final assembly.

1.21 FISH HABITAT

- .1 This Work is being conducted in an area where fish habitat may be affected. Perform Work to conform with rules and regulations governing fish habitat and in accordance with authorization for Work or undertakings affecting fish habitat.
- .2 Contact the Department of Fisheries and Oceans (DFO) (Fisheries Protection Program) detachment at St. John's, NL at least 48 hours in advance of starting any Work on site.
- .3 Maintain on site a copy of DFO's Letter of Advice regarding this project, and abide by all stipulations, unless otherwise agreed in writing by Departmental Representative.

1.22 NOTICE TO
SHIPPING/MARINERS

- .1 Notify the Marine Communications and Traffic Services Centre of Fisheries and Oceans Canada, at (709) 695-2168, ten (10) days prior to commencement

and upon completion of the Work in order to allow for the issuances of Notice to Shipping/Mariners.

- .2 During construction any vessels or barges utilized must be marked in accordance with the provisions of the Canada Shipping Act Collision Regulations.

1.23 ACCEPTANCE

- .1 Prior to the issuance of the Certificate of Substantial Performance, in company with Departmental Representative, make a check of all Work. Correct all discrepancies before final inspection and acceptance.

1.24 WORK COORDINATION

- .1 Contractor is responsible for coordinating the Work of the various trades where the Work of such trades interfaces with each other.
- .2 Convene meetings between trades whose Work interfaces and ensure that they are fully aware of the areas and the extent of where interfacing is required. Provide each trade with the plans and specifications of the interfacing trade, as required, to assist them in planning and carrying out their respective Work.
- .3 Canada will not be responsible for or held accountable for any extra costs incurred as a result of the failure to carry out coordination of Work. Disputes between the various trades as a result of their not being informed of the areas and extent of interface Work shall be the sole responsibility of the Contractor and shall be resolved at no extra cost to

Canada.

1.25 CONTRACTOR'S
USE OF SITE

- .1 The Contractor shall be responsible for arranging the storage of materials on or off site, and any materials stored at the site which interfere with any of the day to day activities at or near the site will be moved promptly at the Contractor's expense, upon request by the Departmental Representative.
- .2 Contractor will take adequate precautions to protect existing concrete and asphalt when operating tracked equipment.
- .3 Contractor shall exercise care so as not to obstruct or damage public or private property in the area.
- .4 At completion of Work, restore area to its original condition. Damage to ground and property will be repaired by Contractor. Remove all construction materials, residue, excess materials, etc., and leave site in a condition acceptable to Departmental Representative.

1.26 WORK
COMMENCEMENT

- .1 Mobilization to project site is to commence immediately after acceptance of bid and submission of site-specific Health and Safety Plan, unless otherwise agreed by Departmental Representative.
- .2 Project Work on site is to commence as soon as possible with a continuous reasonable workforce unless otherwise agreed by Departmental Representative.

- .3 Weather conditions, short construction season, delivery challenges, and the location of the Work site may require the use of longer working days and additional workforce to complete the project within the specified completion time.
- .4 Make every effort to ensure that sufficient material and equipment is delivered to site at the earliest possible date after acceptance of bid and replenished as required.

1.27 FACILITY
SMOKING
ENVIRONMENT

- .1 Comply with smoking restrictions.

1.28
INTERPRETATION OF
DOCUMENTS

- .1 Supplementary to the General Conditions, the Division 01 Sections of the Specifications take precedence over technical specification in other divisions of the specifications.

1.29 ASBESTOS
DISCOVERY

- .1 Demolition of spray or trowel-applied asbestos can be hazardous to health. Should material resembling spray or trowel-applied asbestos be encountered in course of Work, stop Work and notify Departmental Representative immediately. Do not proceed with relevant Work until written instructions have been received from Departmental Representative.

END OF SECTION