
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.

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- .7 Minimum call-up amount will be \$1,000.00 and the maximum will not exceed \$80,000.00 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 complete the work within six (6) weeks from receipt of call-up unless otherwise authorized by the Departmental Representative. Should the Contractor not complete the work within the specified six (6) weeks allocated from the approved call-up date, no further call-ups will be issued to the Contractor until the call-up has been completed.
- 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 2010 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.

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- 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 conflict or discrepancy, the more stringent requirements will apply.

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- .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.

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- .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, approvals 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.

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| 1.11 <u>Workers Compensation</u> .1 | Contractor and all sub-contractors must be registered under the Workers' Compensation Act and provide evidence of good standing. |
| 1.12 <u>Laws, Standards, Taxes and Fees</u> .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 <u>Protection and Repair</u> .1 | Repair any damage resulting from operations under this Contract. |
| 1.14 <u>Disposal of Debris</u> .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. |

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 samples 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.

PART 1 - GENERAL

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| 1.1 | <u>Section Include</u> | .1 | Shop Drawings and product data. |
| | | .2 | Samples. |
| | | .3 | Certificates. |
| 1.2 | <u>Administrative</u> | .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. |

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- .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
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- .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 requirements 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 PWGSC 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 colour, 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 <u>Certificates and Transcripts</u>	.1	Immediately after award of Contract, submit Workers' Compensation Board status.
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PART 2 - PRODUCTS

2.1 <u>Not Used</u>	.1	Not Used.
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PART 3 - EXECUTION

3.1 <u>Not Used</u>	.1	Not Used.
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PART 1 - GENERAL

1.1	<u>Related Work</u>	.1	Section 01 35 29: Health and Safety Requirements
1.2	<u>References</u>	.1	FCC No. 301 - June 1982 Standard for Construction Operations.
		.2	FCC No. 302 - June 1982 Standard for Welding and Cutting.
		.3	Above-noted FCC standards, may be viewed at the Regional Fire Protection Services' Office (previously known as the Fire Commissioner of Canada) located at 99 Wyse Road, 8th Floor, Dartmouth, NS; Tel: (902) 426-6053.
1.3	<u>Definitions</u>	.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	<u>Fire Safety Requirement</u>	.1	Implement and follow fire safety measures during Work. Comply with following: .1 National Fire Code, 1995. .2 Fire Protection Standards FCC 301 and FCC 302 as issued by the Fire Protection Services of Human Resources Development Canada. .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	<u>Hot Work Authorization</u>	.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 trades 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 carryout 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 fire fighting.

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| | .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. |

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- 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.

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| | .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 it's location;
 - .2 Duration of isolation period (ie: start time & date and completion 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 tagout 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 and lockout tags to workers.
 - .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.

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- .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.

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- 1.1 Related Work .1 Section 01 35 24: Special Procedures on Fire 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.
- .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:
[www.http://laws.justice.gc.ca/en/L-2/](http://laws.justice.gc.ca/en/L-2/)

.2 COSH can be viewed at:
[www.http://laws.justice.gc.ca/eng/SOR-86-304/n e .html](http://laws.justice.gc.ca/eng/SOR-86-304/n_e.html)

.3 A copy may be obtained at: Canadian Government Publishing Public Works & Government Services Canada Ottawa, Ontario, K1A 0S9 Tel: (819) 956-4800 (1-800-635-7943) Publication No. L31-85/2000 E or F)

- .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, at Work Site.

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- .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.

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- .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 PWGSC 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 subcontractors 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.

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- 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.

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| | .7 | Keep inspection reports and supervision related documentation on site. |
| 1.15 <u>Training</u> | .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 <u>Minimum Site Safety Rules</u> | .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 <u>Correction of Non-Compliance</u> | .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. |

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- .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.

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- .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.
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- 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.
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- 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

PART 1 - GENERAL

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| 1.1 | <u>Fires</u> | .1 | Fires and burning of rubbish on site not permitted. |
| 1.2 | <u>Disposal of Wastes</u> | .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 | <u>Drainage</u> | .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 | <u>Site Clearing and Plant Protection</u> | .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. |

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| 1.5 <u>Work Adjacent to Waterways</u> | .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 <u>Pollution Control</u> | .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

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| 2.1 <u>Not Used</u> | .1 | Not Used. |
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PART 3 - EXECUTION

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| 3.1 <u>Not Used</u> | .1 | Not Used. |
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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 - Submittal Procedures.
- .2 Section 01 78 00 - Closeout Submittals.
- 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.
- .3 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.
- .4 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.
- .5 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.

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| | .2 | Provide equipment required for executing inspection and testing by appointed agencies. |
| | .4 | Employment of inspection/testing agencies does not relax responsibility to perform Work in accordance with Contract Documents. |
| | .5 | If defects are revealed during inspection and/or testing, appointed agency will 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 <u>Access to Work</u> | .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 <u>Procedures</u> | .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 <u>Rejected Work</u> | .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 <u>Reports</u> | .1 | Submit four (4) copies of inspection and test reports to Departmental Representative. |

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| | .2 | Provide copies to Subcontractor of work being inspected or tested, manufacturer or fabricator of material being inspected or tested. |
| 1.9 <u>Tests and Mix Designs</u> | .1 | Furnish test results and mix designs as may be requested. |
| 1.10 <u>Mock-ups</u> | .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 <u>Mill Tests</u> | .1 | Submit mill test certificates as requested. |
| 1.12 <u>Equipment and Systems</u> | .1 | Submit adjustment and balancing reports for mechanical and electrical. |
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PART 2 - PRODUCTS | | |
| 2.1 <u>Not Used</u> | .1 | Not Used. |
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PART 3 - EXECUTION | | |
| 3.1 <u>Not Used</u> | .1 | Not Used. |

PART 1 - GENERAL

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| 1.1 | <u>Section Includes</u> | .1 | Progressive cleaning. |
| | | .2 | Final cleaning. |
| 1.2 | <u>Related Section</u> | .1 | Section 01 74 21 - Construction/Demolition Waste Management And Disposal. |
| 1.3 | <u>Project Cleanliness</u> | .1 | Maintain Work in tidy condition, free from accumulation of waste products and debris, including that caused by Owner or other Contractors. |
| | | .2 | Remove waste materials from site at regularly scheduled times or dispose of as directed by Departmental Representative. Do not burn waste materials 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.
- .12 Use only cleaning materials recommended by manufacturer of surface to be cleaned, and as recommended by cleaning material manufacturer.
- .13 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.
- .7 Make arrangements with and obtain permits from authorities having jurisdiction for disposal of waste and debris.
- .8 Remove dirt and other disfiguration from exterior surfaces.
- .9 Sweep and wash clean paved areas.
- .10 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.

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- 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.

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| 1.4 | <u>Material Source Separation Process</u> | .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 | <u>Disposal Requirements</u> | .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 | <u>Removal</u> | .1 | Remove in their entirety all materials and objects specified for removal including all fastenings. Carefully remove materials designated to be reused. |