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This document is the document referred to as "Plans and Specifications" and marked "A" in the Articles of Agreement and includes the following:

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The enclosed drawings (plans) listed hereunder form part of the documents referred to as "Plans and Specifications" and marked in the Articles of Agreement and consists of the following:

<u>List of Drawings.</u>	<u>Title</u>
1 of 1	Tignish Containment Site

end

PART 1 – GENERAL

1. Description of Work
 - .1 The work includes but is not limited the removal and disposal of approximately 20,000 cm of dredge material as show on containment cell drawing 1of1.
 - .2 The removal and disposal of approximately 334 cm of broken concrete and rubble. This material must be disposed of in a approved provincial manner.
 - .3 The re-instatement of brems that were breached in order to access the work site.
2. Documents Required
 - .1 Maintain at job site, one copy each of the following:
 - .1 Contract drawings;
 - .2 Specifications;
 - .3 Addenda;
 - .4 Reviewed shop drawings/submissions;
 - .5 Change Orders;
 - .6 Other modifications to Contract;
 - .7 Copy of approved work schedule;
 - .8 Permits and approvals;
 - .9 Health and Safety Plan and other Safety related documents;
 - .10 Material Source Separation Plan; and
 - .11 Other documents, as stipulated elsewhere in the Contract Documents.
3. Site Conditions
 - .1 The site is a constructed system of berms that encases dredge spoils. The access to the site, as shown on the plan, on a clay road to the outer berm.
4. Work Schedule and Completion Dates
 - .1 Prepare and submit to the Departmental Representative within 5 days of notification of Contract award, 1 copy of the construction schedule, in the form of a bar chart, showing the sequencing and the dates for commencement and completion of the complete removal as indicated. The Schedule is to include work of subcontractors; dates of submissions, review and return of all drawings, etc.; the dates of Substantial Completion; and intended man hours of labour and equipment for each major item of *work*.

5. Measurement
Responsibilities

- .1 Notify *Departmental Representative* sufficiently in advance of operations to permit required measurements for payment purposes.

6. Contractor's
Use of Site

- .1 Co-operate with users of existing facilities.
- .2 Should interference's occur, take directions from either the *Departmental Representative* or the *Harbour Authority Chief*.
- .3 Do not unreasonably encumber site with materials or equipment.
- .4 Move stored products or equipment which interfere with operations of *Departmental Representative*, other Contractors or harbour operations.
- .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 damage will be repaired at Contractor's expense.
- .8 Provide temporary barriers and warning signs in location where work is adjacent to areas used by public.
- .9 Provide temporary signs as required or requested by the Harbour Authority.
- .10 Coordinate storage of materials and equipment (if space is available) with the Harbour Authority.
- .11 Maintain all roads, streets, lanes, walks, driveways, free from mud and debris tracked from construction site, on a daily basis.

- .12 The Contractor is to note that if access is provided over existing structures then the Contractor is to co-operate with the Harbour Authority and schedule their access to permit usage by other wharf users. The Contractor should also note that access may be limited to one lane of traffic to the location of work depending on wharf activity. As well the load carrying
- .13 The Contractor will be responsible, at the Contractor's expense, to move and replace lobster traps, electrical wires, power lines, derricks, poles, sheds, fuel lines, pumps or any obstacles which may hinder the work progress.
- .14 The contractor must insure that as a result of the work that no materials will enter the adjacent waterway or wetlands.

7. Codes and Standards

- .1 Perform work in accordance with National Building Code of Canada (NBC) 2005 and any other code of provincial or local application provided that in any case of conflict or discrepancy, the more stringent requirements will apply.
- .2 Meet or exceed requirements of the latest edition of specified standards, codes and referenced documents. When a standard or code is outdated, the latest edition will supersede the referenced date.
- .3 Observe and enforce construction safety measures under the Canadian Occupational Health & Safety Regulations and safety regulations of the Province of Prince Edward Island. In the event of conflict between any provisions of above authorities the most stringent provision will apply.

8. Project Meetings

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

9. Setting Out of 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 Assume full responsibility for and execute complete layout of work to locations, lines and elevations indicated.
- .3 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 compensation or time for completion because of this suspension of work.
- .4 Elevations for the 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.
- .5 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.
- .7 Note that all existing soundings grades shown on the Drawings were relevant only on the date indicated (that they were obtained).

10. 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 pedestrian and vehicular traffic.
- .2 Before commencing work, establish location and extent of service lines in area of work and notify Departmental Representative of findings.
- .3. Safely maintain power served by adjacent (to work) utility poles throughout the duration of the work or provide temporary equivalent power and reinstate after work is complete.
- .4 Any services interrupted or relocated as a result of work are to be reinstated in a manner as directed by the governing authority.
- .5 Submit schedule to and obtain acceptance from Departmental Representative for any shut-down or closure of active service or facility. Adhere to approved schedule and provide notice to affected parties.

- .6 Make all required connections to existing services, carry out such operations at the times directed by governing authorities, and which result in minimum disturbance.
- .7 Protect, relocate or maintain existing active services as required. When inactive services are encountered, cap off in a manner approved by governing authorities.
- .8 Record the locations of maintained, rerouted and abandoned services on the Project record drawings.
- .9 Where unknown services are encountered, immediately advise Departmental Representative and confirm findings in writing.

11. Contract Documents

- .1 Contract Drawings:
 - .1 The drawings for the Work consist of all drawings listed in these "List of Drawings, Section 00 00 01" 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. These drawings will be issued for clarification only. Such drawings will have same meaning and intent as if they were included with plans referred to in Contract Documents.
 - .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.
 - .2 Specification language is of the 'Short Form type' for example, where the word "provide" occurs, interpret it to mean "the Contractor shall furnish all labour, material and equipment necessary to complete the work".

- .3 This Specification and accompanying drawings are intended to describe and provide for a finished project. They are intended to be complementary, and what is called for by either will be as binding as if called for by both. The Contractor shall understand that the work herein described will be complete in every detail, notwithstanding that every item necessarily involved is not particularly mentioned, and Contractor will be held to provide all labour, materials and equipment necessary for the entire completion of the work and will not avail themselves of any errors or omissions.

12. 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 Submit to the Departmental Representative, a copy of application submissions and approval documents received for above referenced authorities.
- .4 The Contractor is responsible to obtain any Provincial Watercourse/Wetland Alteration permit, if required.
- .5 The Contractor is to abide by all conditions as described in any such permits.
- .6 The Contractor shall observe and comply with all provisions, conditions and restrictions contained in the permit(s).
- .7 Cooperate with and provide assistance to inspectors of the Regulatory Agencies to board and inspect equipment and operations at any time during the project.

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| 13. | <u>Record of Construction</u> | .1 | As work progresses, maintain accurate records to show all deviations from the contract drawings, with particular reference to work which will be concealed. Prior to the inspection of the work for the issuance of the Substantial Certificate of Completion, provide the Departmental Representative with one set of white prints of the drawings with all deviations shown neatly thereon in red. |
| | | .2 | Also provide "as built" cross sections of any excavation, at 20 m intervals. |
| 14. | <u>Payment</u> | .1 | Payment for all work under this contract to be according to the Contract Documents and the Division 31- Earthwork, Section 31 23 10 Excavating. |
| | | .2 | Quantity of material removed and disposed of will be determined by a post excavation survey conducted by PWGSC. |
| | | .3 | No separate payment will be made for work specified under General Conditions, Supplementary Conditions or any sections of Specification under Division 01. The cost of this work is to be considered as overhead and to be included in the unit prices of the Contract. |
| | | .4 | Dimensional changes as directed by the Departmental Representative to suit existing conditions, but not resulting in additional work or materials, will not be considered as extra to the Contract. |
| 15. | <u>Site Examination</u> | .1 | All bidders should visit the site of the work prior to submission of tenders to become acquainted with site conditions, conditions of existing objects to be removed, tides, degree of exposure, means of access, nature of work, risks and contingencies, and all information which may affect their tender and or is necessary for the proper carrying out of the work covered by the Drawings and this Specification. |
| | | .2 | The Departmental Representative will give no consideration whatsoever to any claim by the Contractor resulting from failure to have made all the necessary investigations prior to tendering. |
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| | .3 | If interested in visiting the site, the Contractor is to request permission to access the site from both the Harbour Authority and the Departmental Representative prior to going. |
| | .4 | In advance of a site visit, the Contractor is to review hazards as identified in Section 01 35 29 Part 1.10 Site Conditions and submit a site specific safety plan for the purpose of viewing the site. |
| 16. Cooperation & Assistance to Departmental Representative | | |
| | .1 | Co-operate with Departmental Representative on inspection of work. |
| | .2 | Provide assistance when requested. |
| 17. <u>Datum</u> | .1 | 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 varies 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 the work. |
| 18. Contractor's Representative | .1 | Continuously maintain on the site an authorized representative to whom communication may be addressed and who will be competent to speak for the Contractor in discussing work methods. |
| 19. Workers Compensation | .1 | Contractor and all sub-contractors must be registered under the Workers Compensation Act and provide evidence of good standing. |
| | .2 | With each claim for payment, the Contractor will present to the Departmental Representative a Letter of Certification from the Workers Compensation Board, showing that all required assessments are paid in connection with all trades. |
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| 20. | Laws, Standards
<u>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. |
| 21. | Protection and
<u>Repair</u> | .1 | Repair any damage resulting from work under this contract. |
| 22. | Location of
Equipment and
<u>Fixtures</u> | .1 | Location of equipment, fixtures or any appurtenances indicated are to be considered approximate. |
| 23. | Inspection
<u>And Testing</u> | .1 | The Departmental Representative may employ an Inspector and/or Testing Company to ensure work conforms with contract. |
| 24. | Disposal of
<u>Materials</u> | .1 | Debris, consisting of construction materials not incorporated in the work, oil products and containers, and other materials of this nature will be disposed of in suitable locations off the site in keeping with Section 01 35 29. Disposal is the responsibility of the Contractor. |
| | | .2 | Removal, hauling and disposal of rubble materials described in 1.2 such as creosote timber will be undertaken in a provincially approved manner. Weigh slips from a provincial waste facility must be provided to PWGSC for payment. |
| | | .3 | The historic dredge material to be removed from the cells has been deemed acceptable by the Prince Edward Island Department of Environment, Labour and Justice for land purposes other than agricultural applications. Examples of acceptable applications include all construction uses including foundation backfilling, road build-up, bedding material, etc. The material is not to be used for infilling of sensitive environmental land (i.e. wetlands, salt marsh etc.) |
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| 25. | <u>Security</u> | .1 | Watch the site at all times, including weekends and holidays. No compensation will be paid by PWGSC for materials of work stolen, lost, damaged, or destroyed. |
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| 26. | Environmental
<u>Protection</u> | .1 | Provide environmental protection in accordance with the requirements of Environment Canada, Department of Fisheries and Oceans, Province of PEI and Section 01 35 44. |
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| 27. | Relics And
<u>Antiquities</u> | .1 | Protect relics, antiquities, items of historical or scientific interest such as cornerstones and contents, commemorative plaques, inscribed tablets, and similar objects found during course of work. |
| | | .2 | Give immediate notice to Departmental Representative and await written instructions before proceeding with work in this area. |
| | | .3 | Relics, antiquities and items of historical or scientific interest remain her Majesty's property. |
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| 28. | <u>Limit of Operation</u> | .1 | The Contractor will only be allowed to limit harbour operations within the defined project limits unless authorized by the Departmental Representative. |
| | | .2 | The Contractor shall facilitate and make safe the continued use and operation of all other areas of the harbour at all times. |
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| 29. | <u>Traffic Control</u> | .1 | Regulate traffic in accordance with the Roads Act (Prince Edward Island) as stipulated in the Temporary Workplace Traffic Control Manual (TWTCM) distributed by the Prince Edward Island Department of Transportation & Infrastructure Renewal (PEI TIR). |

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1.1 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.

1.2 Submittals

- .1 Submit site-specific Health and Safety Plan prior to commencement of Work.
 - .1 Submit within 10 work days of notification of Bid Acceptance. Provide 3 copies.
 - .2 Departmental Representative will review Health and Safety Plan and provide comments.
 - .3 Revise the Plan as appropriate and resubmit within 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.

.6 Results of safety and health risk or hazard analysis for site tasks and operation.

.7 Revise the Plan as appropriate and resubmit within 2 working days after receipt of comments.

.8 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.

.2 Submit name of designated Health & Safety Site Representative and support documentation specified in the Safety Plan.

.3 Submit building permit, compliance certificates and other permits obtained.

.4 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.

.5 Submit copies of reports or directions issued by Federal, Provincial and Territorial health and safety inspectors.

.6 Submit copies of incident reports.

.7 Submit WHMIS MSDS - Material Safety Data Sheets.

1.3 Compliance Requirements

.1 Comply with Occupational Health and Safety Act for Province of Prince Edward Island, and Occupational Health and Safety 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.

1.4 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.

1.5 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.
 - .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 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.

1.6 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.
- .3 Protect existing infrastructure including utility poles and overhead lines. Do not disrupt power and provide temporary support of utility poles as required to construct the works and in accordance with utility requirements.

1.7 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.

1.8 Permits

- .1 Post permits, licenses and compliance certificates, specified in Section 01 00 10, 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.

1.9 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.

1.10 Project/Site Conditions

- .1 Contractor is to be aware of:
 - .1 Condition of existing structures over which material must be hauled.
 - .2 Preparation, maintenance and removal of all temporary fills as required for trucks, loaders, excavators, cranes, draglines, etc.
 - .3 The site is the property of Her Majesty the Queen in the Right of Canada and the Contractor will exercise extreme care to prevent damage to the land.
 - .4 The adjacent land ownership just north of the power pole line is the Province of Prince Edward Island
 - .5 Be solely responsible for construction and maintenance of haul roads which will be considered incidental to the work. Remove temporary roads at the completion of the project and restore all land to its original condition.
- .2 Following are potential health, environmental and safety hazards at the site for which Work may involve contact with:
 - .1 Work will be occurring in a harsh marine environment.
 - .2 There are overhead power lines or utility poles on site.
 - .3 Public vehicles and pedestrians will be at or adjacent to the site.

- .4 Slip and trip hazards due to uneven, jagged or wet work surfaces.
- .5 Overhead power lines.
- .6 Vehicle traffic on access road and harbor roads
- .7 Active harbor with loading and unloading activities.

.3 Tidal conditions are present, address issues relative to the tides.

.4 Above items shall not be construed as being complete and inclusive of potential health and safety hazards encountered during Work.

.5 Include above items in the hazard assessment of the Work.

.6 MSDS Data sheets of pertinent hazardous and controlled products stored on site can be obtained from Departmental Representative.

1.11 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.

1.12 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.
 - .6 Spill kit and MSDS sheets.
- .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 trade 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.

1.13 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 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.

1.14 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.

1.15 Minimum Site Safety Rules

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.

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| 1.16 | <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. |
| | | .3 | Departmental Representative will stop Work if non-compliance of health and safety regulations is not corrected in a timely manner. |
| | | | |
| 1.17 | <u>Incident Reporting</u> | .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. |
| | | | |
| 1.18 | <u>Hazardous Products</u> | .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. |
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| 1.19 | <u>Blasting</u> | .1 | Blasting or other use of explosives is not permitted on site. |
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| 1.20 | <u>Powder Actuated Devices</u> | .1 | Use powder actuated fastening devices only after receipt of written permission from Departmental Representative. |
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| 1.21 | <u>Confined Spaces</u> | .1 | Abide by occupational health and safety regulations regarding work in confined spaces. |
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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.

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

end

1. References

- .1 WHMS: Workplace Hazardous Materials Information System, Health Canada.
- .2 Transportation of Dangerous Goods Act. Transport Canada, updated 2008-02-21.
- .3 MBCA: Migratory Birds Convention Act, Environment Canada, 1994.
- .4 Canadian Coast Guard Regulations, Department of Fisheries and Oceans Canada.
- .5 Canadian Shipping Act, Transport Canada, 2001.
- .6 AWWPA: American Wood Preserver Association

2. Definitions

- .1 Hazardous Material: Product, substance, or organism that is used for its original purpose; and that is either dangerous goods or a material that may cause adverse impact to the environment or adversely affect health of persons, animals, or plant life when released into the environment.
- .2 Wetlands: land where the water table is at, near or above the surface or which is saturated for a long enough period to promote such features as wet-altered soils and water tolerant vegetation. Wetlands include organic wetlands or "peatlands," and mineral wetlands or mineral soil areas that are influenced by excess water but produce little or no peat.
- .3 Watercourse: refers to the bed and shore of a river, stream, lake, creek, pond, marsh, estuary or salt-water body that contains water for at least part of each year.
- .4 Alien species: refers to a species or subspecies introduced outside its normal distribution whose establishment and spread threaten ecosystems, habitats or species with economic or environmental harm.
- .5 Buffer zone: a vegetated land that protects watercourses from adjacent land uses. It refers to the land adjacent to watercourses, such as streams, rivers, lakes, ponds, oceans, and wetlands,

including the floodplain and the transitional lands between the watercourse and the drier upland areas.

3. Transportation

- .1 Transport hazardous materials and hazardous waste in compliance with Federal Transportation of Dangerous Goods Act.
- .2 Do not overload trucks when hauling material. Secure contents against spillage.
- .3 Maintain trucks clean and free of mud, dirt and other foreign matter.
- .4 Avoid potential release of contents and of any foreign matter onto highways, roads and access routes used for the Work. Take extra care when hauling material and other hazardous materials. Immediately clean any spillage and soils.
- .5 Before commencement of work, advise the Departmental Representative of the existing roads and temporary routes proposed to be used to access work areas and to haul material to and from the site.
- .6 Construction activities must comply with all/any conditions of the Navigable Waters Protection Act (NWPA) permit issued by Transport Canada.
- .7 Clean and disinfect all equipment before (and after) entering a water body to avoid the transfer and spreading of aquatic invasive species.

4. Disposal Of
Excavated Material
Above LLWLT

- .1 Contractor to obtain disposal site. Disposal site must meet all Provincial regulations required to accept excavated material.
- .2 Departmental Representative will seek Prince Edward Island Department of Environment's acknowledgment of Contractor's disposal site (post-award).

- .12 The Contractor is to note that if access is provided over existing structures then the Contractor is to co-operate with the Harbour Authority and schedule their access to permit usage by other wharf users. The Contractor should also note that access may be limited to one lane of traffic to the location of work depending on wharf activity. As well the load carrying
- .13 The Contractor will be responsible, at the Contractor's expense, to move and replace lobster traps, electrical wires, power lines, derricks, poles, sheds, fuel lines, pumps or any obstacles which may hinder the work progress.
- .14 The contractor must insure that as a result of the work that no materials will enter the adjacent waterway or wetlands.

7. Codes and Standards

- .1 Perform work in accordance with National Building Code of Canada (NBC) 2005 and any other code of provincial or local application provided that in any case of conflict or discrepancy, the more stringent requirements will apply.
- .2 Meet or exceed requirements of the latest edition of specified standards, codes and referenced documents. When a standard or code is outdated, the latest edition will supersede the referenced date.
- .3 Observe and enforce construction safety measures under the Canadian Occupational Health & Safety Regulations and safety regulations of the Province of Prince Edward Island. In the event of conflict between any provisions of above authorities the most stringent provision will apply.

8. Project Meetings

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

9. Setting Out of 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 Assume full responsibility for and execute complete layout of work to locations, lines and elevations indicated.
- .3 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 compensation or time for completion because of this suspension of work.
- .4 Elevations for the 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.
- .5 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.
- .7 Note that all existing soundings grades shown on the Drawings were relevant only on the date indicated (that they were obtained).

10. 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 pedestrian and vehicular traffic.
- .2 Before commencing work, establish location and extent of service lines in area of work and notify Departmental Representative of findings.
- .3 Safely maintain power served by adjacent (to work) utility poles throughout the duration of the work or provide temporary equivalent power and reinstate after work is complete.
- .4 Any services interrupted or relocated as a result of work are to be reinstated in a manner as directed by the governing authority.
- .5 Submit schedule to and obtain acceptance from Departmental Representative for any shut-down or closure of active service or facility. Adhere to approved schedule and provide notice to affected parties.

- .5 Maintain on site appropriate emergency spill response equipment consisting of at least one 250-litre (55 gallon) overpack spill kit for containment and cleanup of spills.
- .6 Maintain vehicles and equipment in good working order to prevent leaks on site. All equipment to be free from loose petroleum fluid or lubricants harmful to the marine environment.
- .7 In the event of a petroleum spill, immediately notify the Departmental Representative and the Canadian Coast Guard (CCG) at 1-800-565-1633 (24 hour report line). Perform clean-up in accordance with all regulations and procedures stipulated by authority having jurisdiction.

7. Disposal of Wastes

- .1 Do not bury rubbish, demolition debris and waste materials on site.
- .2 Dispose and recycle demolition debris and waste materials in accordance with project in a Provincially approved manner.
- .3 Do not dispose of hazardous waste, volatile materials (such as mineral spirits, paints, thinners etc.) and petroleum products into waterways, storm or sanitary sewers or in waste landfill sites.
- .4 Dispose of hazardous waste in accordance with applicable federal and provincial laws, regulations, codes and guidelines.
- .5 Do not wash down equipment within a 30 meter buffer zone of a wetland, watercourse or other identified environmentally sensitive area.

8. Socioeconomic
Restrictions

- .1 Abide by municipal and provincial regulations for any restrictions on work performed during the night time and on flood lighting of the site. Obtain applicable permits.
- .2 Place flood lights in opposite direction of adjacent residential and business areas.
- .3 Equip equipment and machinery with purposely designed mufflers to reduce noise on site to lowest possible level. Maintain mufflers in good operating condition at all times.
- .4 Adequate signage and safety measures must be supplied during transportation of materials and equipment to the harbor.

9. Bird And
Bird Habitat

- .1 Become knowledgeable with and abide by the Migratory Birds Convention Act (MBCA) in regards to the protection of migratory birds, their eggs, nests and their young encountered on site and in the vicinity.
- .2 Minimize disturbance to all birds on site and adjacent areas during the entire course of the Work.
- .3 Do not approach concentrations of seabirds, waterfowl and shorebirds when anchoring equipment, accessing wharves or ferrying supplies.
- .4 Do not perform night-time work.
- .5 Do not use beaches, dunes and other natural previously undisturbed areas of the site to conduct work unless specifically approved by the Departmental Representative.
- .6 Should nests of migratory birds in wetlands be encountered during work, immediately notify Departmental Representative for directives to be followed.
 - .1 Do not disturb nest site and neighbouring vegetation until nesting is completed.

- .2 Minimize work immediately adjacent to such areas until nesting is completed.
- .3 Protect these areas by following recommendations of Canadian Wildlife Service.

- .7 Ensure that food scraps and garbage are not left at the work site.

10. Air Quality

- .1 Keep airborne dust and dirt resulting from the work on site to an absolute minimum.
- .2 Apply dust control measures to roads, parking lots and work areas.
- .3 Spray surfaces with water or other environmentally approved product. Use purposely suited equipment or machinery and apply in sufficient quantity and frequency to provide effective result and continued dust control during the entire course of the work.
- .4 Do not use oil or any other petroleum products for dust control.

11. Fires

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

12. Archaeological

- .1 All construction personnel are responsible for reporting any unusual materials unearthed during construction to the construction supervisor. If the find is believed to be an archaeological resource, the construction supervisor will immediately stop work in the vicinity of the find and notify his/her immediate supervisor.
- .2 If an archaeological and/or historically significant item is discovered during excavation, work in the area will be stopped and Departmental representative will be contacted.

end

1. General

1.1 WORK INCLUDED

- .1 This section specifies requirements for the excavation and grading for all earthwork operations including excavation above Low Low Water Large Tide (LLWLT). Work includes, excavating and transportation, grading and disposal of dredge spoils and rubble.

1.2 DEFINITIONS

- .1 Subgrade: the surface of mass excavation and embankment finished to lines and elevations indicated.

1.3 MEASUREMENT
FOR PAYMENT

- .1 Excavation and backfilling will be measured for payment in accordance with Section 01 00 10 General Instructions part 14.

PART 2 - EXECUTION

2.1 EXCAVATION

- .1 Excavate all types of materials to lines and elevations indicated and as necessary for construction.
- .2 Notify Departmental Representative if in doubt as to definition of material.
- .3 Select method of excavation, support, and dewatering unless otherwise indicated or directed. Protect property and structures from damage.
- .4 Handle materials in a manner that will not endanger the public, personnel, property or the work. Do not reduce sight distances, or obstruct roadways or utilities. Do not obstruct flow of surface drainage or natural watercourses.

Excavation

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- .5 Do not stockpile materials alongside of excavations in such manner that stockpiling will cause side failure or bottom uplift.
- .6 Replace over excavation with selected site material or as directed.
- .7 Provide for review, surveyed sections of excavated areas every 20 m along length of work.

2.2 UNSUITABLE
EXCAVATION

- .1 When unsuitable is encountered notify Departmental Representative for measurement and assist in investigation to determine depth and type of material. Isolate area to minimize entry of water into excavation.
- .2 Excavate unsuitable to extent directed.
- .3 Dispose of material unsuitable for reuse off site.

2.3 BLASTING

- .1 Blasting is not permitted.

2.4 MASS EXCAVATION
AND EMBANKMENT

- .1 Establish with Departmental Representative lead time required to take measurements or to review sections. Notify Departmental Representative in accordance with agreed lead time.
- .2 Excavate and to lines and grades indicated.
- .3 Maintain crowns and cross slopes to provide surface drainage.
- .4 When rock, or unsuitable material is encountered notify Departmental Representative for measurement.
- .5 Do not place material which is frozen or place material on frozen surfaces.
- .6 Finish side slopes uniformly to lines and elevations indicated.

END

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