

PART 1 - GENERAL

1.1 DESCRIPTION  
OF WORK

- .1 The work under this contract consists of, but is not limited to, the following:
- .1 Removal and disposal of existing concrete copewall and wheelguard and other materials to limits shown on drawings.
  - .2 Cutting and disposal (or removal and disposal as necessary) of existing asphalt to limits shown on drawings.
  - .3 Reconstruct the face of the work with new steel H-piles and concrete lagging panels (Berlin wall), tied back to the existing wall structure to limits and in areas as shown on drawings.
  - .4 Supply material as indicated herein.
  - .5 Supply and placement of tremie concrete to grade and limits as shown on drawings.
  - .6 Site of work is at the Harbour Authority Facility located at Howard's Cove, PEI.
  - .7 Removal and reinstatement of any service pipes, lines, etc.
  - .8 Removal, relocation and reinstatement of power poles where necessary to carry out the work. This will also include high-voltage lines as may be encountered on site.

1.2 FAMILIARIZATION  
WITH SITE

- .1 Before submitting a bid, it is recommended that bidders inspect and examine the site of work and satisfy themselves as to the form and nature of the work, materials, the means of access to the site, and the temporary facilities required for completion of the work.
- .2 Obtain prior permission from the Departmental Representative before carrying out such site inspection.
- .3 Review the hazards of the site as identified within this section (Clause 1.10.1) and submit for review a Site Specific Safety Plan, for the purpose of viewing the site, prior to going to site.

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1.3 CODES AND  
STANDARDS

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

1.4 INTERPRETATION  
OF DOCUMENTS

- .1 Supplementary to the Order of Precedence Article of the General Conditions, the Division 01 Sections take precedence over the technical specification sections in other divisions of the specifications manual.

1.5 TERM ENGINEER

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

1.6 SETTING  
OUT WORK

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

1.7 MEASUREMENT  
FOR PAYMENT

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

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1.8 DOCUMENTS  
REQUIRED

- .1 Maintain at job site, one copy each of the following:
  - .1 Contract drawings
  - .2 Specifications
  - .3 Addenda
  - .4 Reviewed shop drawings
  - .5 List of outstanding shop drawings
  - .6 Change orders
  - .7 Other modifications to contract
  - .8 Field test reports
  - .9 Copy of approved work schedule
  - .10 Health and safety plan and other safety related documents
  - .11 Other documents as stipulated elsewhere in the contract documents.

1.9 PERMITS

- .1 In accordance with the General Conditions, obtain and pay for building permit, certificate, licenses and other permits as required by municipal, provincial and federal authorities.
- .2 Provide appropriate notifications of project to municipal and provincial inspection authorities.
- .3 Obtain compliance certificates as prescribed by legislative and regulatory provisions of municipal, provincial and federal authorities as applicable to the performance of the work.
- .4 Submit to Departmental Representative, copy of application forms and approval documents received from above referenced authorities.

1.10 EXISTING  
SERVICES

- .1 Before commencing work, establish location and extent of service lines in area of work and notify Departmental Representative of findings.
- .2 Submit schedule to and obtain approval from Departmental Representative for any shut down or closure of active service or facility. This includes disconnection of electrical power and communication services to tenant's operational areas. Adhere to approved schedule and provide notice to affected parties.

1.10 EXISTING  
SERVICES  
(Cont'd)

- .3 Where unknown services are encountered, immediately advise Departmental Representative and confirm findings in writing.
- .4 Protect, relocate or maintain existing active services as required. When inactive services are encountered, cap off in manner approved by authorities having jurisdiction over service. Record locations of maintains, re-routed and abandoned service lines.

1.11 TERM "PWGSC"

- .1 Represents Public Works and Government Services Canada.

1.1 RELATED  
REQUIREMENTS

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

1.2 APPOINTMENT  
AND PAYMENT

- .1 The Engineer will appoint and pay for the 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 Tests specified to be carried out by Contractor under the supervision of Engineer.
  - .4 Tests requested by Engineer to confirm material specifications when the applicable manufacturer's documentation or test results are unavailable.
  - .5 Additional tests specified in paragraph 1.2.2.
- .2 Where tests or inspections by designated testing laboratory reveal work not in accordance with contract requirements. Contractor shall pay costs for additional tests or inspections as may be required to verify acceptability of corrected work.

1.3 CONTRACTOR'S  
RESPONSIBILITIES

- .1 Furnish labour 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 Engineer sufficiently in advance of operations to allow for assignment of laboratory personnel and scheduling of tests.
- .3 Where materials are specified to be tested, deliver representative samples in required quantity to testing laboratory.

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1.3 CONTRACTOR'S .4 Pay costs for uncovering and making good work  
RESPONSIBILITIES that is covered before required inspection or  
(Cont'd) testing is completed and accepted by Engineer.

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END

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PART 1 - GENERAL

1.1 RELATED  
SECTIONS

- .1 Section 01 35 24 - Special Procedures on Fire Safety Requirements
- .2 Section 01 35 29 - Health and Safety Requirements
- .3 Section 01 78 00 - Closeout Submittals
- .4 Section 03 10 00 - Concrete Forming and Accessories
- .5 Section 03 30 00 - Cast-in-Place Concrete
- .6 Section 03 41 00 - Precast Structural Concrete
- .7 Section 05 50 00 - Metal Fabrications
- .8 Section 31 62 18 - Steel H-Piles

1.2 ADMINISTRATIVE

- .1 Submit to Departmental Representative submittals listed for review. Submit promptly and in orderly sequence to not cause delay in Work. Failure to submit in ample time is not considered sufficient reason for extension of Contract Time and no claim for extension by reason of such default will be allowed.
- .2 Do not proceed with Work affected by submittal until review is complete.
- .3 Present shop drawings, product data, samples and mock-ups in SI Metric units.
- .4 Where items or information is not produced in SI Metric units converted values are acceptable.
- .5 Review submittals prior to submission to Departmental Representative. This review represents that necessary requirements have been determined and verified, or will be, and that each submittal has been checked and co-ordinated 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.

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- 1.2 ADMINISTRATIVE (Cont'd)
- .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 co-ordinated.
  - .8 Contractor's responsibility for errors, deviations or omissions in submission is not relieved by Departmental Representative's review of submittals.
  - .9 Submittal format: paper originals, or alternatively clear and fully legible photocopies of originals. Facsimiles are not acceptable, except in special circumstances pre-approved by Departmental Representative. Poorly printed non-legible photocopies or facsimiles will not be accepted and be returned for resubmission.
  - .10 Make changes or revision to submissions which Departmental Representative may require, consistent with Contract Documents and resubmit as directed by Departmental Representative. When resubmitting, identify in writing of any revisions other than those requested.
  - .11 Keep one reviewed copy of each submission on site.
- 1.3 SHOP DRAWINGS AND PRODUCT DATA
- .1 The term "shop drawings" means drawings, diagrams, illustrations, schedules, performance charts, brochures and other data which are to be provided by Contractor to illustrate details of a portion of Work.
  - .2 Submit shop drawings bearing stamp and signature of qualified professional engineer registered or licensed in the Province of Prince Edward Island, Canada.
  - .3 Shop Drawing Submittal Schedule:
    - .1 Submit, within 10 working days of contract award, in format acceptable to Departmental Representative, a submittal schedule listing all shop drawings to be submitted for project as specified in various sections of the specifications.
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- 1.3 SHOP DRAWINGS .3 Shop Drawing Submittal Schedule: (Cont'd)  
AND PRODUCT DATA .2 Schedule to indicate proposed submission  
(Cont'd) date for each item, status of review and  
anticipated product delivery date to site.  
Track all submissions for entire project.  
.3 As work progresses, revise schedule  
identifying items which have been reviewed and  
finalized and indicating those outstanding.  
.4 Update schedule at stipulated dates or  
project time intervals predetermined and  
agreed upon with Departmental Representative  
at commencement of work.
- .4 Shop Drawing Quantities: submit sufficient  
copies required by the General Contractor and  
sub-contractors, plus 3 copies which will be  
retained by Departmental Representative.
- .5 Shop Drawings Format:  
.1 Opaque white prints or photocopies of  
original drawings or standard drawings  
modified to clearly illustrate work specific  
to project requirements. Maximum sheet size to  
be 1000 x 707 mm.  
.2 Product data from manufacturer's  
standard catalogue sheets, brochures,  
literature, performance charts and diagrams,  
used to illustrate standard manufactured  
products, to be original full colour  
brochures, clearly marked indicating  
applicable data and deleting information not  
applicable to project.  
.3 Non or poorly legible drawings,  
photocopies or facsimiles will not be accepted  
and returned not reviewed.
- .6 Shop Drawings Content:  
.1 Indicate materials, methods of  
construction and attachment or anchorage,  
erection diagrams, connections, explanatory  
notes and other information necessary for  
completion of Work. Where items or equipment  
attach or connect to other items or equipment,  
confirm that all interrelated work have been  
coordinated, regardless of section or trade  
from which the adjacent work is being supplied  
and installed.
- .7 Allow 14 days for Departmental  
Representative's review of each submission.
- .8 Adjustments made on shop drawings by  
Departmental Representative are not intended  
to change Contract Price. If adjustments
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- 1.3 SHOP DRAWINGS .8 (Cont'd)  
AND PRODUCT DATA  
(Cont'd)
- .9 affect value of Work, state such in writing to Departmental Representative prior to proceeding with Work.
- .9 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.
- .10 Be advised that costs and expenses incurred by Departmental Representative to conduct more than one review of incorrectly prepared shop drawing submittal for a particular material, equipment or component of work may be assessed against the Contractor in the form of a financial holdback to the Contract.
- .11 Accompany submissions with transmittal letter 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.
- .12 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.

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- 1.3 SHOP DRAWINGS AND PRODUCT DATA  
(Cont'd)
- .13 After Departmental Representative's review, distribute copies.
- .14 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.
- .15 The review of shop drawings by Public Works and Government Services Canada (PWGSC) is for sole purpose of ascertaining conformance with general concept.
- .1 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 requirements of construction and Contract Documents.
- .2 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 sub-trades.
- 1.4 SAMPLES
- .1 Submit for review samples as specified in respective specification Sections. Label samples with origin and intended use.
- .2 Deliver samples Departmental Representative's office or to other address as directed. Do not drop off samples at construction site, except for pre-approved circumstances previously approved by Departmental Representative.
- .3 Notify Departmental Representative in writing, at time of submission of deviations in samples from requirements of Contract Documents.
- .4 Adjustments made on samples by Departmental Representative are not intended to change
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1.4 SAMPLES  
(Cont'd)

- .4 (Cont'd)  
Contract Price. If adjustments affect value of Work, state such in writing to Departmental Representative prior to proceeding with Work.
- .5 Make changes in samples which Departmental Representative may require, consistent with Contract Documents.
- .6 Reviewed and accepted samples will become standard of workmanship and material against which installed Work will be verified.

PART 1 - GENERAL

- 1.1 RELATED WORK .1 Section 01 35 29 - Health and Safety Requirements.
- 1.2 REFERENCES .1 Fire Protection Standards issued by Fire Protection Services of Human Resources Development Canada as follows:  
.1 FCC No. 301-June 1982 Standard for Construction Operations (or latest edition).  
.2 FCC No. 302-June 1982 Standard for Welding and Cutting (or latest edition).  
.3 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 DEFINITIONS .1 Hot Work defined as:  
.1 Welding work;  
.2 Cutting of materials by use of torch or other open flame devices;  
.3 Grinding with equipment which produces sparks;  
.4 Use of open flame torches.
- 1.4 SUBMITTALS .1 Submit copy of Hot Work Procedures and samples of Hot Work permit to Departmental Representative for review, within 14 calendar days after contract award.  
.2 Submit in accordance with Section 01 33 00.
- 1.5 FIRE SAFETY REQUIREMENTS .1 Implement and follow fire safety measures during Work. Comply with the following:  
.1 National Fire Code;  
.2 Fire Protection Standards FCC 301 and FCC 302;  
.3 Federal and Provincial Occupational Health and Safety Acts and Regulations.  
.2 In the event of conflict between any provisions of above authorities, the most stringent provision will apply. Should a

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- 1.5 FIRE SAFETY .2 (Cont'd)  
REQUIREMENTS dispute arise in determining the most  
(Cont'd) stringent requirement, Departmental  
Representative will advise on the course of  
action to be followed.
- 1.6 HOT WORK .1 Obtain Departmental Representative's written  
AUTHORIZATION "Authorization to Proceed" before conducting  
any form of Hot Work on site.
- .2 To obtain authorization, submit to  
Departmental Representative:  
.1 Contractor's typewritten Hot Work  
Procedures to be followed on site as specified  
below.  
.2 Description of the type and frequency of  
Hot Work required.  
.3 Sample Hot Work Permit to be used.
- .3 Upon review and confirmation that effective  
fire safety measures will be implemented and  
followed during performance of hot work,  
Departmental Representative will give  
authorization to proceed as follows:  
.1 Issue one written "Authorization to  
Proceed" covering the entire project for  
duration of work, or;  
.2 Subdivide the work into pre-determined,  
individual activities, each activity requiring  
a separately written authorization to proceed.
- .4 Requirement for individual authorization will  
be based on:  
.1 Nature or phasing of work;  
.2 Risk to facility operations;  
.3 Quantity of various trades needing to  
perform hot work on project, or;  
.4 Other situation 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" for that portion of  
work.
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1.7 HOT WORK  
PROCEDURES

- .1 Develop and implement safety procedures and work practices to be followed during the performance of Hot Work.
- .2 Hot Work Procedures to include:
  - .1 Requirement to perform hazard assessment of site and immediate work area beforehand for each hot work event in accordance with Safety Plan specified in Section 01 35 29.
  - .2 Use of a Hot Work Permit system with individually written permit issued by Contractor's Superintendent to specific worker or subcontractor granting permission to proceed with Hot Work.
  - .3 Permit required for each Hot Work event.
  - .4 Designation of a person on site as a Fire Safety Watcher responsible to conduct a fire safety watch for a minimum duration of 60 minutes immediately following the completion of the Hot Work.
  - .5 Compliance with fire safety codes, standards and occupational health and safety regulations specified.
- .3 Generic procedures, if used, must be edited and supplemented with pertinent information tailored to reflect specific project conditions. Label document as being the Hot Work Procedures for this contract.
- .4 Procedures shall clearly establish responsibilities of:
  - .1 Worker performing hot work;
  - .2 Person issuing the Hot Work Permit;
  - .3 Fire Safety Watcher;
  - .4 Subcontractor(s) and Contractor.
- .5 Brief all workers and subcontractors on Hot Work Procedures and of Permit System. Stringently enforce compliance.
- .6 Failure to comply with fire safety procedures may result in the issue of a Non-Compliance notification as specified in Section 01 35 29.

1.8 HOT WORK  
PERMIT

- .1 Hot Work Permit to include the following:
  - .1 Project name and project number;
  - .2 Area where hot work will be performed;
  - .3 Date of issue;
  - .4 Description of hot work type needed;
  - .5 Special precautions to be followed, including type of fire extinguisher needed;

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1.8 HOT WORK  
PERMIT  
(Cont'd)

- .1 (Cont'd)
  - .6 Name and signature of permit issuer;
  - .7 Name of worker to which the permit is issued;
  - .8 Permit validity period not to exceed 8 hours. Indicate start time, date and termination time, and date;
  - .9 Worker's signature with time/date of hot work completion;
  - .10 Stipulated time period of safety watch;
  - .11 Fire Safety Watcher's signature with time/date.
- .2 Permit to be type written form. Industry standard forms shall only be used if all data specified above is included on form.
- .3 Each Hot Work Permit to be completed in full, signed and returned to Contractor's Superintendent for safe keeping on site.

1.9 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.
- .3 Costs incurred from the fire department and facility owner, 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.

1.10 DOCUMENTS  
ON SITE

- .1 Upon request, make available to Departmental Representative or to authorized safety representative for inspection.

PART 1 - GENERAL

1.1 RELATED  
SECTIONS

- .1 Section 01 33 00 - Submittal Procedures
- .2 Section 01 35 24 - Special Procedures on Fire Safety Requirements
- .3 Section 02 41 16.01 - Structure Demolition
- .4 Section 03 30 00 - Cast-in-Place Concrete

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.

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- 1.3 SUBMITTALS
- .1 Make submittals in accordance with Section 01 33 00 - Submittal Procedures.
  - .2 Submit site-specific Health and Safety Plan prior to commencement of Work.
    - .1 Submit within 15 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 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 Prince Edward Island, and Occupational Health and Safety Regulations made pursuant to the Act.
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1.4 COMPLIANCE  
REQUIREMENTS  
(Cont'd)

- .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/ne.html](http://laws.justice.gc.ca/eng/SOR-86-304/ne.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 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.
    - .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.)

1.7 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

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- 1.7 PROTECTION .2 (Cont'd)  
(Cont'd) harm. Advise Departmental Representative verbally and in writing.
- 1.8 FILING OF NOTICE .1 File Notice of Project with pertinent Provincial health and safety authorities prior to beginning of Work.  
.1 Departmental Representative will assist in locating address if needed.
- 1.9 PERMITS .1 Post permits, licenses and compliance certificates, specified in section 01 10 10 - General Instructions, at Work Site.  
.2 Where a particular permit or compliance certificate cannot be obtained, notify Departmental Representative in writing and obtain approval to proceed before carrying out applicable portion of work.
- 1.10 HAZARD ASSESSMENT .1 Perform site specific health and safety hazard assessment of the work and its site.  
.2 Carry out initial assessment prior to commencement of work with further assessments as needed during progress of work, (including when new trades and sub-contractors 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 Facility ongoing operations:  
.1 Commercial fishing and related activities  
.2 Public traffic  
.2 Marine environment  
.3 Overhead power lines  
.4 Temperate working environment  
.5 Working in close proximity to water
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- 1.11 PROJECT/SITE CONDITIONS (Cont'd)
- .1 (Cont'd)
  - .6 Slip and tripping hazards due to uneven surfaces
  - .2 Above items shall not be construed as being complete and inclusive of potential health and safety hazards encountered during work.
  - .3 Include above items in the hazard assessment of the work.
  - .4 MSDS data sheets of pertinent hazardous and controlled products stored on site can be obtained from Departmental Representative.
- 1.12 MEETINGS
- .1 Attend pre-construction health and safety meeting, convened and chaired by Departmental Representative, prior to commencement of Work, at time, date and location determined by Departmental Representative. Ensure attendance of:
    - .1 Superintendent of Work
    - .2 Designated Health & Safety Site Representative
    - .3 Subcontractors
  - .2 Conduct regularly scheduled tool box and safety meetings during the Work in conformance with Occupational Health and Safety Regulations.
  - .3 Keep documents on site.
- 1.13 HEALTH AND SAFETY PLAN
- .1 Prior to commencement of work, develop written Health and Safety Plan specific to the work. Implement, maintain, and enforce Plan for entire duration of Work and until final demobilization from site.
  - .2 Health and Safety Plan shall include the following components:
    - .1 List of health risks and safety hazards identified by hazard risks 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.
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1.13 HEALTH AND  
SAFETY PLAN  
(Cont'd)

- .2 (Cont'd)
- .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, locations of fire fighting 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 sub-contractors.
- .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 sub-contractors, 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 sub-contractors.
- .6 Review Health and Safety Plan regularly during the Work. Update as conditions warrant

1.13 HEALTH AND  
SAFETY PLAN  
(Cont'd)

- .6 (Cont'd)  
to address emerging risks and hazards, such as  
whenever new trade or sub-contractor arrive at  
work site.
- .7 Departmental Representative will respond in  
writing, where deficiencies or concerns are  
noted and may request re-submission of the  
Plan with correction of deficiencies or  
concerns.
- .8 Post copy of the Plan, and updates,  
prominently on Work Site.

1.14 SAFETY  
SUPERVISION

- .1 Employ Health and 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

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- 1.14 SAFETY SUPERVISION (Cont'd)
- .5 Inspections: (Cont'd)
    - .1 (Cont'd) (bi-weekly) basis. Record deficiencies and remedial action taken.
  - .6 Cooperate with Facility's Occupational Health and Safety Representative should be one designated by Departmental Representative.
  - .7 Keep inspection reports and supervision related documentation on site.
- 1.15 TRAINING
- .1 Use only skilled workers on Work Site who are effectively trained in occupational health and safety procedures and practices pertinent to their assigned task.
  - .2 Maintain employee records and evidence of training received. Make data available to Departmental Representative upon request.
- 1.16 MINIMUM SITE SAFETY RULES
- .1 Notwithstanding requirement to abide by Federal and Provincial health and safety regulations; ensure the following minimum safety rules are obeyed by persons granted access to Work Site:
    - .1 Wear appropriate PPE pertinent to the Work or assigned 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.
- 1.17 CORRECTION OF NON-COMPLIANCE
- .1 Immediately address health and safety non-compliance issues identified by authority having jurisdiction or by Departmental Representative.
  - .2 Provide Departmental Representative with written report of action taken to correct non-compliance of health and safety issues identified.
  - .3 Departmental Representative will stop Work if non-compliance of health and safety
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- 1.17 CORRECTION OF .3 (Cont'd)  
NON-COMPLIANCE  
(Cont'd) regulations is not corrected in a timely  
manner.
- 1.18 INCIDENT .1 Investigate and report the following  
REPORTING 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 loss to a Federal  
department in excess of \$5,000.00.  
.2 Submit report in writing.
- 1.19 HAZARDOUS .1 Comply with requirements of Workplace  
PRODUCTS Hazardous Materials Information System  
(WHMIS).  
.2 Keep MSDS data sheets for all products  
delivered to the site.  
.1 Post on site.  
.2 Submit copy to Departmental  
Representative.
- 1.20 BLASTING .1 Blasting or other use of explosives is not  
permitted.
- 1.21 CONFINED .1 Abide by Occupational Health and Safety  
SPACES Regulations regarding work in confined spaces.
- 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.

PART 1 - GENERAL

- 1.1 RELATED SECTIONS
- .1 Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
- 1.2 REFERENCES
- .1 WHMIS: Workplace Hazardous Materials Information System, Health Canada.
- .2 Transportation of Dangerous Goods Act. Transport Canada, updated 2008-02-21.
- .3 Guidelines for the Use of Explosives In or Near Canadian Fisheries Water, Department of Fisheries and Oceans Canada, 1998.
- .4 MBCA: Migratory Birds Convention Act, Environment Canada, 1994.
- .5 Canadian Coast Guard Regulations, Department of Fisheries and Oceans Canada.
- .6 Canadian Shipping Act, Transport Canada, 2001.
- .7 AWPA: American Wood Preserver Association.
- .8 NWPA: Navigable Waters Protection Act, 2009.
- 1.3 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,
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1.3 DEFINITIONS  
(Cont'd)

- .3 Watercourse: (Cont'd)  
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.

1.4 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 material.
- .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.

1.5 HAZARDOUS  
MATERIAL HANDLING

- .1 Handle and store hazardous materials on site  
in accordance with WHMIS procedures and  
requirements.
- .2 Store all hazardous liquids in location and  
manner to prevent their spillage into the  
environment.

- 1.5 HAZARDOUS MATERIAL HANDLING (Cont'd)
- .3 Maintain written inventory of all hazardous materials kept on site. List product name, quantity and storage date.
  - .4 Keep MSDS data sheets on site for all items.
- 1.6 PETROLEUM, OIL AND LUBRICANTS
- .1 Comply with Federal and Provincial laws, regulations, codes and guidelines for the storage of fuel and petroleum products on site.
  - .2 Do not place fuel storage tanks and store fuel or other petroleum products within a 30 metre buffer zone of watercourses and wetlands. Do not fuel or lubricate equipment within this 30 metre buffer zone. Obtain approval from Departmental Representative of acceptable location on site for fuel storage and equipment service.
  - .3 Do not dump petroleum products or any other deleterious substances on ground or in the water.
  - .4 Be diligent and take all necessary precautions to avoid spills and contamination of the soil and water (both surface and subsurface) when handling petroleum products on site and during fueling and servicing of vehicles and equipment.
  - .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.
  - .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 cleanup in accordance with all regulations and procedures stipulated by authority having jurisdiction.
  - .8 All work equipment must be free from loose petroleum fluid or lubricants harmful to the marine environment.
-

1.7 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 waste management requirements specified in Section 01 74 21.
- .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.

1.8 SOIL QUALITY

- .1 All stockpiles soil must be covered and/or dyked to prevent erosion and release of sediment laden water. Wherever possible, exposed soil should be replanted or sodded to ensure soil stabilization.
- .2 Any excavated material must be tested before it is transferred from DFO-SCH property. If testing of material is required, the cost will be the responsibility of the Crown.
- .3 If any material is excavated during the proposed project activities then the Departmental Representative must be consulted to identify an appropriate stockpile location for the excavated material.

1.9 WATER QUALITY

- .1 Conduct work in such a manner to limit turbidity and reduce sediment suspension in the water to an absolute minimum at all times.
  - .2 Visually monitor the water turbidity of the surrounding areas adjacent to the work and up to 200 metres.
    - .1 Should excessive change occur in the turbidity beyond the 200 metres which differs from existing conditions of the surrounding waterbodies, such as a distinct color difference, notify the Departmental Representative to obtain appropriate mitigation measures to be followed.
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- 1.9 WATER QUALITY .3 Water contamination by preservative treated  
(Cont'd) wood:
- .1 Preservative treated lumber and timber, whether plant or site treated, shall be cured for a minimum of 30 days from date of the treatment application before their installation in areas which will be in contact with the water.
  - .2 Wood treated with Chromate Copper Arsenate (CCA) or Ammoniac Copper Zinc Arsenate (ACZA) must be CSA or AWP approved.
  - .3 Do not use timber and lumber treated with creosote, petroleum and pentachlorophenol for any part of the Work.
  - .4 Do not wash down equipment within a 30 metre buffer zone of a wetland, watercourse or other identified environmentally sensitive area.
  - .5 Any construction debris entering the marine environment will be retrieved.
  - .6 The construction material used must be clean and non-toxic (free of fuel, oil, grease and/or any contaminants).
  - .7 A silt curtain must be installed before commencing any work or propose a construction method to mitigate against a sediment plume in the surrounding water body.
- 1.10 SOCIOECONOMIC .1 Abide by municipal and provincial regulations  
RESTRICTIONS 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. All loads are to be properly secured.
  - .4 Adequate signage and safety measures must be supplied during transportation of materials and equipment to the harbour.
-

1.11 BIRD AND  
BIRD HABITAT

- .1 Become knowledgeable 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 During night time work, position flood lights in opposite direction of nearby bird nesting habitat.
- .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 worksite.

1.12 FISH AND  
FISH HABITAT

- .1 Be aware of the risk for contamination of the fish habitat at the site as a result of alien species being introduced in the water.
- .2 To minimize the possibility of fish habitat contamination, all construction equipment which will be immersed into the water of a watercourse, or has the possibility of coming into contact with such water during the course of the work, must be cleaned and washed to

1.12 FISH AND  
FISH HABITAT  
(Cont'd)

- .2 (Cont'd)  
ensure that they are free of marine growth and alien species.
  - .1 Equipment shall include boats, barges, cranes, excavators, haul trucks, pumps, pipelines and other all miscellaneous tools and equipment previously used in a marine environment.
- .3 Cleaning and washing of equipment shall be performed immediately upon their arrival at the site and before use in or over the body of water.
- .4 Conduct cleaning and washing operations as follows:
  - .1 Scrap and remove heavy accumulation of mud and dispose appropriately.
  - .2 Wash all surfaces of equipment by use of a pressurized fresh water supply.
  - .3 Immediately follow with application of a heavy sprayed coating of undiluted vinegar or other environmentally approved cleaning agent to thoroughly remove all plant matter, animals and sediments.
  - .4 Check and remove all plant, animal and sediment matter from the all bilges and filters.
  - .5 Drain standing water from equipment and let fully dry before use.
  - .6 Upon removal from water, drain standing water from equipment and let fully dry before removal off the site.
- .5 Do not perform cleaning and washdown within a 30 metre buffer zone of a wetland, watercourse or other identified environmentally sensitive area.
- .6 Record of Assurance Logbook:
  - .1 Maintain an ongoing log of past and present usage and washdowns of all equipment to illustrate mitigation measures undertaken against fish habitat contamination by alien species.
  - .2 Write data in a hard cover bound logbook.
  - .3 Include the following:
    - .1 Date and location where equipment was previously used in a watercourse or wetland;
    - .2 Type of work performed;
    - .3 Dates of washdown for each piece of equipment;

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1.12 FISH AND  
FISH HABITAT  
(Cont'd)

- .6 Record of Assurance Logbook: (Cont'd)
  - .3 Include the following: (Cont'd)
    - .4 Cleaning method and cleaning agent(s) used.
- .7 Keep Record of Assurance Logbook updated from project to project. Upon request, submit logbook to Departmental Representative for review.
- .8 Abide by requirements and recommendations of the Federal Department of Environment and the Department of Fisheries and Oceans - Habitat Protection and Sustainable Development Branch in cleaning and washdown of equipment.

1.13 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.

1.14 FIRES

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

PART 1 - GENERAL

1.1 RELATED  
SECTIONS

- .1 Section 03 20 00 - Concrete Reinforcing
- .2 Section 03 30 00 - Cast-in-Place Concrete
- .3 Section 03 41 00 - Precast Structural  
Concrete
- .4 Section 31 62 18 - Steel H-Piles

1.2 INSPECTION

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

1.3 INDEPENDENT  
INSPECTION AGENCIES

- .1 Independent Inspection/Testing Agencies may be engaged by Departmental Representative for purpose of inspecting and/or testing portions of Work. Cost of such services will be borne by Departmental Representative.
  - .2 Provide equipment required for executing inspection and testing by appointed agencies.
  - .3 Employment of inspection/testing agencies does not relax responsibility to perform Work in accordance with Contract Documents.
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- 1.3 INDEPENDENT INSPECTION AGENCIES (Cont'd) .4 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 Departmental Representative. Pay costs for retesting and reinspection.
- 1.4 ACCESS TO WORK .1 Allow inspection/testing agencies access to Work, off site manufacturing and fabrication plants.
- .2 Co-operate to provide reasonable facilities for such access.
- 1.5 PROCEDURES .1 Notify appropriate agency and Departmental Representative in advance of requirement for tests, in order that attendance arrangements can be made.
- .2 Submit samples and/or materials required for testing, as specifically requested in specifications. Submit with reasonable promptness and in orderly sequence to not cause delays 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.
- 1.6 REJECTED WORK .1 Remove defective Work, whether result of poor workmanship, use of defective products or damage and whether incorporated in Work or not, which has been rejected by Departmental Representative as failing to conform to Contract Documents. Replace or re-execute in accordance with Contract Documents.
- .2 Make good other Contractor's work damaged by such removals or replacements promptly.
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- 1.7 REPORTS .1 Submit 3 copies of inspection and test reports to Departmental Representative.
- .2 Provide copies to manufacturer or fabricator of material being inspected or tested.
- 1.8 MILL TESTS .1 Submit mill test certificates as required of specification Sections.

PART 2 - PRODUCTS

- 2.1 NOT USED .1 Not Used.

PART 3 - EXECUTION

- 3.1 NOT USED .1 Not Used.

PART 1 - GENERAL

1.1 RELATED  
SECTIONS

- .1 Section 02 41 16.01 - Structure Demolition  
and Sitework

1.2 SITE ACCESS  
AND PARKING

- .1 Parking facilities at site are limited.  
Arrange for parking and storage with  
Departmental Representative and Harbour  
Authority Representative.
- .2 Maintain new and existing roads and parking  
areas at site, where used by Contractor, for  
duration of contract.
- .1 Keep clean and free of mud and dirt by  
washing on a regular basis.
- .2 Provide snow removal in areas located  
within construction site or enclosed by work.
- .3 Make good and repair damage resulting  
from Contractor's use of existing roads,  
asphalted areas and lawns on site.

1.3 CONTRACTOR'S  
SITE OFFICE

- .1 Be responsible for and provide own site  
office, if required, including electricity,  
heat, lights and telephone. Locate site office  
as directed by Departmental Representative and  
Harbour Authority Representative.

1.4 MATERIAL  
STORAGE

- .1 Arrange for and locate site storage trailers  
in location of least interference with  
existing facility operations. Discuss with  
Departmental Representative and Harbour  
Authority Representative.
- .2 Material storage space on site is limited.

1.5 SANITARY  
FACILITIES

- .1 Provide sanitary facilities for workforce in  
accordance with governing regulations and  
ordinances.
- .2 Post notices and take such precautions as  
required by local health authorities. Keep  
area and premises in sanitary condition.
-

1.6 POWER

- .1 Arrange, pay for and maintain temporary electrical power supply in accordance with governing regulations and ordinances.
- .2 Supply and install all temporary facilities for power such as pole lines, meter socket, underground cables, etc., as required and to approval of local power supply authority.

1.7 WATER SUPPLY

- .1 Arrange, pay for and maintain temporary water supply in accordance with governing regulations and ordinances.

1.8 REMOVAL OF  
TEMPORARY  
FACILITIES

- .1 Remove temporary facilities from site when directed by Departmental Representative.

PART 1 - GENERAL

- 1.1 INSTALLATION AND REMOVAL .1 Provide temporary controls in order to execute Work expeditiously. .2 Remove from site all such work after use.
- 1.2 GUARD RAILS AND BARRICADES .1 Provide secure, rigid guard rails and barricades around deep excavations. .2 Provide concrete jersey barriers as required to provide a secure and safe workplace.
- 1.3 ACCESS TO SITE .1 Provide and maintain access roads, sidewalk crossings, ramps and construction runways as may be required for access to Work.
- 1.4 PUBLIC TRAFFIC FLOW .1 Provide and maintain competent signal flag operators, traffic signals, barricades and flares, lights, or lanterns as required to perform Work and protect public and harbour users.
- 1.5 FIRE ROUTES .1 Maintain access to property including overhead clearances for use by emergency response vehicles.
- 1.6 PROTECTION FOR OFF-SITE AND PUBLIC PROPERTY .1 Protect surrounding private and public property from damage during performance of Work. .2 Be responsible for damage incurred.
- 1.7 WASTE MANAGEMENT AND DISPOSAL .1 Separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
-

PART 2 - PRODUCTS

- 2.1 MATERIALS .1 Barricades and Buoys:
- .1 All pedestrian or vehicular or vessel traffic control devices required by Municipal Regulations, as interpreted by the Municipal Authority, or other Authority having jurisdiction, to safely direct and/or control all traffic in the areas of construction.
  - .2 All pedestrian, vehicular or vessel traffic control devices as required to safely direct and/or control all traffic in the areas of construction on the wharf and as directed by the Engineer.

PART 3 - EXECUTION

- 3.1 INSTALLATION .1 Erect temporary barricades and buoys as directed and where required before any construction work takes place.
- .2 Barricades and buoys to remain in place and be maintained by Contractor during entire construction period, except as noted in Par. 3.2.1 below.
- 3.2 REMOVAL .1 Barricades and buoys may be removed in areas of work where all site work restitution is completed and the area has been accepted by the Owner and by the Departmental Representative.
- .2 Upon total completion of work, neatly stockpile all existing concrete jersey barriers on site as directed by the Departmental Representative.

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- 1.1 GENERAL .1 Use new material and equipment unless otherwise specified.
- .2 Within 7 days of written request by Engineer, submit the following information for materials and products proposed for supply:
- .1 Name and address of manufacturer;
  - .2 Trade name, model and catalogue number;
  - .3 Performance, descriptive and test data;
  - .4 Manufacturer's installation or application instructions;
  - .5 Evidence of arrangement to procure.
- .3 Use products of one manufacturer for equipment or material of same type or classification unless otherwise specified.
- 1.2 MANUFACTURER'S INSTRUCTIONS .1 Unless otherwise specified, comply with manufacturer's latest printed instructions for materials and installation methods.
- .2 Notify Engineer in writing of any conflict between these specifications and manufacturer's instructions. Engineer will designate which document is to be followed.
- 1.3 DELIVERY AND STORAGE .1 Deliver, store and maintain packaged material and equipment with manufacturer's seals and labels intact.
- .2 Prevent damage, adulteration and soiling of material and equipment during delivery, handling and storage. Immediately remove rejected material and equipment from site.
- .3 Store material and equipment in accordance with supplier's instructions.
- .4 Touch up damaged factory finished surfaces to Engineer's satisfaction. Use primer or enamel to match original. Do not paint over nameplates.
- 1.4 CONFORMANCE .1 When material or equipment is specified by standard or performance specifications, upon request of Engineer, obtain from manufacturer an independent testing laboratory report,
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- 1.4 CONFORMANCE .1 (Cont'd)  
(Cont'd) stating that material or equipment meets or exceeds specified requirements.
- 1.5 SUBSTITUTION .1 Proposals for substitution may be submitted  
OF MATERIAL only after award of contract. Such requests must include statements of respective costs of items originally specified and proposed substitutions.
- .2 Proposals will be considered by Engineer if:
- .1 Products selected by tenderer from those specified, are not available, or;
  - .2 Delivery date of products selected from those specified would unduly delay completion of Contract, or;
  - .3 Alternative products to those specified, which are brought to attention of, and considered by Engineer as equivalent to those specified and will result in credit to Contract amount;
  - .4 Should proposed substitution be accepted either in part or in whole, assume full responsibility and costs when substitution affects other work on project. Pay for design or drawing changes required as a result of substitution.
  - .5 Amounts of all credits arising from approval of substitutions will be determined by Engineer and contract price will be reduced accordingly. No substitutions will be permitted without prior written approval of Engineer.
- 1.6 CONSTRUCTION .1 On request, prove to the satisfaction of  
EQUIPMENT Engineer, that the construction equipment and  
AND PLANT plant are adequate to manufacture, transport, place and finish work to quality and production rates specified. If inadequate, replace or provide additional equipment or plant as directed.
- .2 Maintain construction equipment and plant in good operating order.

PART 1 - GENERAL

1.1 RELATED  
SECTIONS

- .1 Section 01 77 00 - Closeout Procedures

1.2 GENERAL

- .1 Conduct cleaning and disposal operations to comply with local ordinances, Harbour Authority and anti-pollution laws.
- .2 Sort volatile waste in covered metal containers, and remove from premises at end of each working day.

1.3 PROJECT  
CLEANLINESS

- .1 Maintain Work in tidy condition, free from accumulation of waste products and debris.
- .2 Remove waste materials from site at daily regularly scheduled times or dispose of as directed by Departmental Representative. Do not burn waste materials on site, unless approved by Departmental Representative.
- .3 Provide on-site containers for collection of waste materials and debris.
- .4 Provide and use marked separate bins for recycling. Refer to Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
- .5 Store volatile waste in covered metal containers, and remove from premises at end of each working day.
- .6 Provide adequate ventilation during use of volatile or noxious substances. Use of building ventilation systems is not permitted for this purpose.
- .7 Use only cleaning materials recommended by manufacturer of surface to be cleaned, and as recommended by cleaning material manufacturer.
- .8 Schedule cleaning operations so that resulting dust, debris and other contaminants will not fall on wet, newly painted surfaces nor contaminate building systems.

- 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 including that caused by Owner or other Contractors.
- .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, unless approved by Departmental Representative.
- .6 Broom clean and wash exterior walks, steps and surfaces; rake clean other surfaces of grounds.
- .7 Remove dirt and other disfiguration from exterior surfaces.
- .8 Sweep and wash clean paved areas.
- .9 Reinstate any areas damaged by work.
- 
- 1.5 WASTE MANAGEMENT AND DISPOSAL .1 Separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management And Disposal.

PART 1 - GENERAL

1.1 RELATED WORK

- .1 Section 01 35 44 - Environmental Protection Procedures for Marine Work
- .2 Section 01 56 00 - Temporary Barriers and Enclosures
- .3 Section 01 74 11 - Cleaning
- .4 Section 01 77 00 - Closeout Procedures
- .5 Section 02 41 16.01 - Structure Demolition
- .6 Section 03 10 00 - Concrete Forming and Accessories
- .7 Section 03 20 00 - Concrete Reinforcing
- .8 Section 03 30 00 - Cast-in-Place Concrete
- .9 Section 03 41 00 - Precast Structural Concrete
- .10 Section 05 50 00 - Metal Fabrications
- .11 Section 06 10 10 - Rough Carpentry
- .12 Section 31 61 13 - Pile Foundations, General Requirements
- .13 Section 31 62 18 - Steel H-Piles

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  
MANAGEMENT PLAN

- .1 Prior to commencement of work, prepare Waste Management Workplan.
  - .2 Workplan to include:
    - .1 Waste reduction practices;
    - .2 Material source separation process;
    - .3 Procedures for sending recyclables to recycling facility;
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1.3 WASTE  
MANAGEMENT PLAN  
(Cont'd)

- .2 Workplan to include:(Cont'd)
  - .4 Procedures for sending non-salvageable items and waste to approved waste processing facility or landfill site.
  - .5 Training and supervising workforce on waste management at site.
- .3 Workplan to incorporate waste management requirements specified herein and in other sections of the specifications.
- .4 Develop Workplan in collaboration with all subcontractors to ensure all waste management issues and opportunities are addressed.
- .5 Submit copy of Workplan to Departmental Representative for review.
  - .1 Make revisions to Plan as directed by Departmental Representatives.
- .6 Implement and manage all aspects of Waste Management Workplan for duration of work.
- .7 Revise Plan as work progresses addressing new opportunities for diversion of waste from landfill.

1.4 WASTE REDUCTION

- .1 Develop waste reduction program.
- .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 each access to off-cuts;
  - .2 Use of off-cuts for blocking and bridging elsewhere.
  - .3 Use of effective and strategically placed facilities on site for storage and staging of leftover or partially cut materials

1.4 WASTE REDUCTION .4 (Cont'd)  
(Cont'd) .3 (Cont'd)  
(such as plywood, dimension timber, etc.) to  
allow for easy incorporation into work  
whenever possible, avoiding unnecessary waste.

.5 Develop other strategies and innovative  
procedures to reduce waste.

1.5 MATERIAL SOURCE .1 Develop and implement material source  
SEPARATION PROCESS separation process at commencement of work as  
part of mobilization and waste management at  
site.

.2 Provide on-site facilities to collect, handle  
and storage anticipated quantities of  
reuseable, salvageable and recyclable  
materials.

- .1 Use suitable containers for individual  
collection of items based on intended purpose.
- .2 Locate to facilitate deposit but without  
hindering daily operations.
- .3 Clearly mark containers and stockpiles  
as to purpose and use.

.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.

1.6 WORKER TRAINING .1 Provide adequate training to workforce,  
AND SUPERVISION through meetings and demonstrations, to  
emphasize purpose and worker responsibilities  
in carrying out the Waste Management Plan.

.2 Waste Management Coordinator: designate one  
full-time person on site, experience din waste  
management and having knowledge of the purpose  
and content of Waste Management Plan to:

- .1 Oversee and supervise waste management  
during work.
  - .2 Provide instructions and directions to  
all workers and subcontractors on waste  
reduction, source separation and disposal  
practices.
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1.6 WORKER TRAINING .3 Post a copy of Plan in a prominent location  
AND SUPERVISION on site for review by workers.  
(Cont'd)

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- 1.7 DISPOSAL  
REQUIREMENTS
- .1 Burying or burning of rubbish and waste materials is prohibited.
  - .2 Disposal of waste, volatile materials, mineral spirits, oil or paint thinner into waterways, storm or sanitary sewers is prohibited.
  - .3 Dispose of waste only at approved waste processing facility or landfill sites approved by authority having jurisdiction.
  - .4 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.
  - .5 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.
  - .6 Sale of salvaged items by Contractor to other parties not permitted on site.
  - .7 Dispose or store creosote and asphalt materials in provincially approved manner.

PART 1 - GENERAL

- 1.1 RELATED SECTIONS .1 Section 01 78 00 - Closeout Submittals.
- 1.2 INSPECTION AND DECLARATION .1 Contractor's Inspection: Coordinate and perform, in concert with subcontractors, an inspection and check of all Work. Identify and correct deficiencies, defects, repairs and perform outstanding items as required to complete work in conformance with Contract Documents.  
.1 Notify Departmental Representative in writing when deficiencies from Contractor's inspection have been rectified and that Work is deemed to be complete and ready for Departmental Representative's inspection of the completed work.  
.2 Departmental Representative's Inspection: Accompany Departmental Representative during all interim and final inspections of the Work.  
.1 Address defects, faults and outstanding items of work identified by such inspections.  
.2 Advise Departmental Representative when all deficiencies identified have been rectified.  
.3 Note that Departmental Representative will not issue a Certificate of Substantial Performance of the work until such time that Contractor performs following work and turns over the specified documents:  
.1 Project record as-built documents.  
.4 Correct all discrepancies before Departmental Representative will issue the Certificate of Completion.
- 1.3 CLEANING .1 In accordance with Section 01 74 11 - Cleaning.  
.2 Remove waste and surplus materials, rubbish and construction facilities from the site in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
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CLOSEOUT PROCEDURES

Section 01 77 00  
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PART 2 - PRODUCTS

2.1 NOT USED .1 Not Used.

PART 3 - EXECUTION

3.1 NOT USED .1 Not Used.

END

PART 1 - GENERAL

- 1.1 RELATED SECTIONS
- .1 Section 01 33 00 - Submittal Procedures
  - .2 Section 01 77 00 - Closeout Procedures
- 1.2 PROJECT RECORD DRAWINGS
- .1 Departmental Representative will provide 2 white print sets of contract drawings and 2 copies of specifications manual specifically for "as-built" purposes.
  - .2 Maintain at site one set of the contract drawings and specifications to record actual as-built site conditions.
  - .3 Maintain up-to-date, real time as-built drawings and specifications in good condition and make available for inspection by the Departmental Representative upon request.
  - .4 As-Built Drawings:
    - .1 Record changes in red ink on the prints. Mark only on one set of prints and at completion of work, neatly transfer notations to second set (also by use of red ink).
    - .2 Submit both sets to Departmental Representative prior to application for Certificate of Substantial Performance.
    - .3 Stamp all drawings with "As-Built Drawings." Label and place Contractor's signature and date.
    - .4 Show all modifications, substitutions and deviations from what is shown on the contract drawings or in specifications.
    - .5 Record the following information:
      - .1 Depths of various elements, to include pile tip depths, in relation to survey datum;
      - .2 Horizontal and vertical location of various elements in relation to Geodetic Datum;
      - .3 Field changes of dimension and detail;
      - .4 Location of all capped or terminated services and utilities;
      - .5 All design elevations, sections and details dimensioned and marked up to consistently report finished installation conditions;

1.2 PROJECT  
RECORD DRAWINGS  
(Cont'd)

.4 As-Built Drawings: (Cont'd)

.5 (Cont'd)

.6 Any details produced in the course of the contract by the Departmental Representative to supplement or to change existing design drawings;

.7 All change orders issued over the course of the contract must be documented on the finished as-built documents, accurately and consistently depicting the changed condition as it applies to all affected drawing details.

.5 Maintain As-Built document current as the contract progresses. Departmental Representative will conduct reviews and inspections of the documents on a regular basis. Failure to maintain as-builts current and complete to satisfaction of the Departmental Representative shall be subject to financial penalties in the form of progress payment reductions and holdback assessments.