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- 1 Scope .1 The work covered under this contract consists of Wharf Removal structure 405 at the public wharf located in Cap Lumiere, Kent County, N.B., and installation of gangway and floating docks (supplied by others) in Str. 405 footprint.
- 2 Description of Work .1 In general, the Work includes the following:
- .1 Removal and disposal of treated timber wheel guard, timber fenders, ladders c/w all fasteners, holdfasts, and all items shown on structure 405 c/w electrical and water component.
  - .2 Removal and disposal of reinforced concrete deck structure encapsulating 405.
  - .3 Removal and disposal of treated and untreated timber cribwork structure, splice blocks, fillers/shims and ballast.
  - .4 Excavation of seabottom to limit shown.
  - .5 Supply and install a floating silt curtain/debris boom during excavation and removal work.
  - .6 Construction new cribwork block.
  - .6 Supply and install new concrete deck ladder, timber wheel guard.
  - .8 Fabricate floating dock anchor system.
  - .7 Install gangway and floating wharves (to be supplied by owner).
- 3 Examination of Site .1 It is recommended that Bidders visit the site and make their own estimates of facilities and difficulties attending the execution of work, actual site and soil conditions, severity, exposure and uncertainty of weather and all other contingencies affecting the execution of the Work.
- .2 Locate utility lines near the site, and appropriately mark for overhead clearances. Any overhead utility lines near the site work will be de-energized and removed.
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- 4 Work Schedule .1 The work to be carried out under this contract must be completed within the time limits set out in the terms of the contract.
- .2 Immediately upon award of contract, the Contractor will submit a schedule of work to the Departmental Representative, showing anticipated progress stages and final completion of work within time required by contract documents. All entries contained in unit price table will be entered on schedule using a horizontal bar graph method.
- .3 Should Contractor find that he cannot maintain schedule as originally intended, he will immediately submit a revised schedule without being requested to do so by Departmental Representative.
- 5 Work Commencement .1 The weather conditions may require the use of additional work force to complete the project within the specified completion time.
- .2 The Contractor is to make every effort to ensure that sufficient material and equipment is delivered to site at the earliest possible date after award.
- 6 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.
- 7 Interpretation of Documents .1 Supplementary to the Order of Precedence article of the General Conditions of the Contract, the Division 01 sections take precedence over the technical specification sections in other Divisions of the Specification Manual.
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- 8 Measurement for Payment .1 Notify Departmental Representative sufficiently in advance of request to permit required measurements for payment.
- .2 No separate payments will be made for the cost of snow and ice removal at the construction site, for access roads and for storage sites, or extra payment due to delays caused by ice movements, winter storms and wharf traffic.
- 9 Codes and Standards .1 Perform work in accordance with National Building Code (NBC) and the Canada Labour Code and any other code of provincial or local application provided that in any case of conflict or discrepancy, the more stringent requirements shall apply.
- .2 Meet or exceed requirements of specified standards, codes and referenced documents.
- .3 Whenever reference is made to standard specifications it will be considered the latest publication of that specification as of the time of advertisement of tenders except where specified otherwise.
- 10 Site Information .1 Any soundings or wharf elevations indicated on the plans are made available for tendering purposes only. It should be noted that this information may differ from present site conditions.
- 11 Site Operations .1 Arrange for sufficient space adjacent to project site for the conduct of operations, storage of materials and so on. Exercise care so as not to obstruct or damage public or private property in area.
- .2 At completion of work, restore area to its original condition. Damage to ground and property will be repaired by Contractor. Remove all construction materials, residue, excess, etc., and leave site in a condition acceptable to Departmental Representative.
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- 12 Contractor's Use of Site
- .1 Plan and execute work to minimize interferences.
  - .2 The Contractor will be solely responsible for arranging the storage of materials on or off the site, and any materials stored at the site which interfere with any of the day to day activities at or near the site will be moved promptly at the Contractor's expense upon request by the Departmental Representative.
  - .3 Exercise care so as not to obstruct or damage public or private property in the area.
- 13 Datum
- .1 All elevations used in this specification and accompanying drawing are referred to the chart Datum which is Lowest Normal Tides (L.N.T.) for the purposes of this contract. The value of the benchmark (B.M.) as shown on the drawings indicate elevation above chart datum.
  - .2 Tenderers are advised to consult the Tide Tables issued by Fisheries and Oceans in order to make sure of the tidal condition affecting work.
- 14 Layout of Work
- .1 Contractor will lay out work on ground to satisfaction of Departmental Representative using base and datum information shown on drawings or as directed by Departmental Representative.
  - .2 Assume full responsibility for and execute complete layout of work to locations, grades, lines and elevations indicated.
  - .3 Supply, install and maintain devices, survey stakes and markers required for laying out work. The method of laying out work requires the review and approval of the Departmental Representative. The Contractor shall verify all dimensions in the field prior to start of work.
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- 15 Existing Services.1 Before commencing work, establish locations and extent of any service lines in area of work and notify Departmental Representative of findings.
- .2 Submit schedule to and obtain approval from Departmental Representative for any shutdown or closure of active service or facility. Adhere to approved schedule and provide notice to affected parties.
- .3 Where unknown services are encountered, immediately advise Departmental Representative and confirm findings in writing.
- .4 Record locations of maintained, rerouted and abandoned service lines.
- .5 All costs related to the existing services must be included in the Site Work Removal item.
- 16 Protection of Existing Services and Facilities.1 It will be the responsibility of the Contractor to become fully acquainted with the existing services and take necessary steps to protect the services during construction operations.
- .2 The Contractor will bear the cost of making good all damage to existing structures and facilities at the site resulting from his operations under this Contract. All repairs will be with new materials approved by Departmental Representative.
- .3 The Contractor will immediately restore any existing service disrupted as a result of his operations at no cost to the Departmental Representative.
- 17 Cutting, Fitting and Patching.1 Execute cutting (including excavation), fitting and patching required to make work fit properly.
- .2 Where new work connects with existing and where existing work is altered, cut, patch and make good to match existing work.
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- 18 Project Meeting .1 Departmental Representative will arrange all project meetings.
- .2 All Project Meetings will take place on site of work unless so directed by Departmental Representative.
- .3 Departmental Representative will assume responsibility for recording minutes of meetings and forwarding copies to all parties present at meetings.
- .4 Contractor's superintendent is to be present at all Project Meetings.
- 19 Documents Required .1 Maintain at job site, one copy each of following:
- .1 Contract drawings.
- .2 Specifications.
- .3 Addenda.
- .4 Reviewed shop drawings.
- .5 Change orders.
- .6 Other modifications to Contract.
- .7 Field test reports.
- .8 Copy of approved work schedule.
- .9 Copy of the Health and Safety plan, posted on site.
- .10 Copy of New Brunswick Occupational Health and Safety Act.
- 20 Taxes and Permits .1 Pay applicable federal, provincial and municipal taxes.
- .2 Obtain all building permits required for the work.
- 21 Co-operation and Assistance to Departmental Representative .1 Co-operate with Departmental Representative on inspection of work and provide any assistance required.
- .2 On request of Departmental Representative, furnish use of such boats, equipment, labour and materials forming ordinary and usual part of operations as may be reasonably necessary to inspect the work. The contractor will provide an approved flat bottom duty boat complete with outboard engine under this
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- 21 Co-operation and Assistance to Departmental Representative (Cont'd) .2 (Cont'd)  
contract. The boat will be made available on request at all times throughout the duration of the contract. It will also be available for the use of the Departmental Representative or his representative when required.
- 22 Additional Drawings .1 Departmental Representative may furnish additional drawings to assist proper execution of work. These drawings will be issued for clarification only. Such drawings shall have same meaning and intent as if they were included with plans referred to in Contract documents.
- 23 Snow and Ice Removal .1 Assume full responsibility for snow and ice removal to gain access to the construction site, access to the wharf and storage areas, if required.
- 24 Cleaning During Construction .1 Maintain project grounds, and public properties free from accumulation of waste materials and rubbish.
- .2 Provide on site garbage containers for collection of waste materials and rubbish.
- .3 Remove waste materials and rubbish from the site or building each day.

- 1 General .1 Submit to Departmental Representative, for review, shop drawings, product data and samples specified.
- 2 Shop Drawings .1 Drawings to be originals prepared by Contractor, subcontractor, supplier or distributor, which illustrates appropriate portion of work, showing fabrication, layout, setting or erection details as specified in the appropriate sections.
- .2 Identify details by reference to sheet and detail numbers shown on contract drawings.
- .3 Maximum sheet size: 850 mm x 1120 mm.
- .4 Reproductions for submission: opaque diazo print.
- 3 Product Data .1 Certain specification sections specify that manufacturer's standard schematic drawings, catalogue sheets, diagrams, schedules, performance charts, illustrations and other standard descriptive data will be accepted in lieu of shop drawings.
- .2 Above will only be accepted if they conform to the following:
- .1 Delete information which is not applicable to this project.
- .2 Supplement standard information to provide additional information applicable to project.
- .3 Show dimensions and clearances required.
- 4 Samples and Mockups .1 Submit samples in sizes and quantities specified.
- .2 Where colour, pattern or texture is criterion, submit full range of samples.
- .3 Construct each sample or mockup complete, including work of all trades required to finish work.
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- 6 Submission Requirements  
(Cont'd)
- .3 Accompany submissions with transmittal letter, in duplicate, containing:
- .1 Data.
  - .2 Project title and number.
  - .3 Contractor's name and address.
  - .4 Number of each shop drawings, product data and sample submitted.
  - .5 Other pertinent data.
- .4 Submissions shall include:
- .1 Original and/or revision dates.
  - .2 Project title and number.
  - .3 Name of:
    - .1 Contractor
    - .2 Subcontractor
    - .3 Supplier
    - .4 Manufacturer
    - .5 Separate detail
  - .4 Identification of product or material.
  - .5 Relation to adjacent structure or materials.
  - .6 Field dimensions, clearly identified as such.
  - .7 Specification Section number.
  - .8 Applicable standards, such as CSA or CGSB Numbers.
  - .9 Contractor's stamp, initialed or signed, certifying review of submission, verification of field measurements and compliance with Contract documents.
- 7 Shop Drawings Review  
Review
- .1 Review of shop drawings by Public Works and Government Services Canada or its authorized consultant is for the sole purpose of ascertaining confirmation with the general concept. This review shall not mean that Public Works and Government Services Canada approves the detail design inherent in the shop drawings, responsibility for which shall remain with Contractor submitting same, and such review shall not relieve Contractor of responsibility for errors or omission in the shop drawings or of responsibility for meeting all requirements of the construction and contract documents. Without restricting the generality of the foregoing, the Contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication process or to techniques of construction and
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PSPC  
Wharf 405 Removal and  
Floating Wharves  
Cap Lumiere, NB  
R.076442.001

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Submittal Procedures

Section 01 33 00

Page 4

January 2016

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7 Shop Drawings .1  
Review  
(Cont'd)

(Cont'd)  
installation and for co-ordination of work of  
all sub-trades.

- 1.1 Description .1 Procedures to isolate and lockout electrical facility or other equipment from energy source.
- 1.2 Related Work .1 Section 01 35 30: Health and Safety.  
.2 Section 01 35 24: Special Procedures on Fire Safety Requirements.
- 1.3 References .1 CSA C22.1-2002 - Canadian Electrical Code, Part 1, Safety Standard for Electrical Installations.  
.2 CSA C22.3 No. 1-M87 (R2001) - Overhead Systems.  
.3 CSA C22.3 No. 7-94 (R2000) - Underground Systems.  
.4 COSH, Canada Occupational Health and Safety Regulations made under Part II of the Canada Labour Code.
- 1.4 Definitions .1 Electrical Facility: means any system, equipment, device, apparatus, wiring, conductor, assembly or part thereof that is used for the generation, transformation, transmission, distribution, storage, control, measurement or utilization of electrical energy, and that has an amperage and voltage that is dangerous to persons.  
.2 Guarantee of Isolation: means a guarantee by a competent person in control or in charge that a particular facility or equipment is isolated.  
.3 De-energize: in the electrical sense, that a piece of equipment is isolated and grounded, e.g. if the equipment is not grounded, it cannot be considered de-energized (DEAD).  
.4 Guarded: means that an equipment or facility is covered, shielded, fenced, enclosed, inaccessible by location, or otherwise protected in a manner that, to the extent that is reasonably practicable, will prevent or
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- 1.4 Definitions (Cont'd)
- .4 Guarded:(Cont'd)  
reduce danger to any person who might touch or go near such item.
  - .5 Isolate: means that an electrical facility, mechanical equipment or machinery is separated or disconnected from every source of electrical, mechanical, hydraulic, pneumatic or other kind of energy that is capable of making it dangerous.
  - .6 Live/alive: means that an electrical facility produces, contains, stores or is electrically connected to a source of alternating or direct current of an amperage and voltage that is dangerous or contains any hydraulic, pneumatic or other kind of energy that is capable of making the facility dangerous to persons.
- 1.5 Compliance Requirements
- .1 Perform lockouts in compliance with:
    - .1 Canadian Electrical Code
    - .2 Federal and Provincial Occupational Health and Safety Acts and Regulations as specified in Section 01 35 30.
    - .3 Regulations and code of practice as applicable to mechanical equipment or other machinery being de-energized.
    - .4 Procedures specified herein.
  - .2 In event of conflict between any provisions of above authorities the most stringent provision will apply. Should a dispute arise in determining the most stringent requirement, Departmental Representative will advise on the course of action to be followed.
- 1.6 Submittals
- .1 Submit copy of proposed Lockout Procedures and sample of lockout tags for review.
  - .2 Submit documentation within 7 calendar days of contract award. Do not proceed with work until submittal has been reviewed by Departmental Representative.
  - .3 Submit above documents in accordance with the submittal - general requirements specified in Section 01 33 00.
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- 1.6 Submittals .4 Resubmit Lockout Procedures with noted  
(Cont'd) revisions as may result from Departmental  
Representative's review.
- 1.7 Isolation of .1 Obtain Departmental Representative's written  
Existing Services authorization prior to conducting work on an  
existing active, energized service or facility  
required as part of the work and before  
proceeding with lockout of such services or  
facility.
- .2 To obtain authorization, submit to  
Departmental Representative following  
documentation:
- .1 Written Request for Isolation of the  
service or facility and;
  - .2 Copy of Contractor's Lockout Procedures.
  - .3 Make a Request for Isolation for each  
event, unless directed otherwise by  
Departmental Representative, and as follows:
    - .1 Fill-out standard forms in current  
use at the Facility when so directed by  
Departmental Representative or;
    - .2 Where no form exist at Facility,  
make request in writing identifying:
      - .1 Identification of system or  
equipment to be isolated, including  
it's location;
      - .2 Time duration, indicating  
Start time & date and Completion  
time & date when isolation will be  
in effect.
      - .3 Voltage of service feed to  
system or equipment being isolated.
      - .4 Name of person making the  
request.
    - .3 Document to be in typewritten  
format.
    - .4 Do not proceed until receipt of  
written notification from Departmental  
Representative granting the Isolation  
Request and authorizing to proceed with  
the isolation of designated equipment or  
facility. Departmental Representative may  
designate other individual at the  
Facility as the person authorized to  
grant the Isolation Request.
    - .5 Conduct safe, orderly shut down of  
equipment or facilities, de-energize and  
isolate power and other sources of energy
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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 Make submittals in accordance with Section 01 33 00.
  - .2 Submit site-specific Health and Safety Plan prior to commencement of Work.
    - .1 Submit within five 5 work days of notification of Bid Acceptance. Provide 2 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 enforcement, 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.
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- 1.2 SUBMITTALS  
(Cont'd)
- .2 (Cont'd)
    - .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.
- 1.3 COMPLIANCE  
REQUIREMENTS
- .1 Comply with Occupational Health and Safety Act for Province of New Brunswick, and General 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.
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1.3 COMPLIANCE  
REQUIREMENTS  
(Cont'd)

- .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
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- 1.5 SITE CONTROL AND ACCESS (Cont'd)
- .2 (Cont'd)
    - .1 (Cont'd)

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.
- 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.
- 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.
  - .2 Where a particular permit or compliance certificate cannot be obtained, notify Departmental Representative in writing and
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- 1.8 PERMITS (Cont'd) .2 (Cont'd)  
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 Carry out 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 Following are potential health, environmental  
and safety hazards at the site for which Work  
may involve contact with:
- .2 .1 Existing hazardous and controlled products  
stored on site:  
.1 none identified  
.2 Existing hazardous substances or  
contaminated materials:  
.1 none identified  
.3 Known latent site and environmental  
conditions:  
.1 Working near and over water.  
.2 Cold weather and exposure.  
.3 Public access to the site.  
.4 Heavy Equipment.  
.5 Working with lights.  
.6 Load losses Roll overs.  
.4 Facility on-going operations:  
.1 none identified
- .3 Above items shall not be construed as being  
complete and inclusive of potential health and  
safety hazards encountered during Work.
- .4 Include above items in the hazard assessment  
of the Work.
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- 1.10 PROJECT/SITE CONDITIONS (Cont'd) .5 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.
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1.12 HEALTH AND  
SAFETY PLAN  
(Cont'd)

- .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 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 subcontractors.
    - .2 Pertinent Federal and Provincial Departments and Authorities having jurisdiction.
    - .3 Local emergency resource organizations.
    - .5 Harmonize Plan with Facility's Emergency Response and Evacuation Plan. Departmental Representative will provide pertinent data including name of PWGSC and Facility Management contacts.
- .4 On-site Communication Plan:
  - .1 Procedures for sharing of work related safety information to workers and subcontractors, including emergency and evacuation measures.
  - .2 List of critical work activities to be communicated with Facility Manager which have a risk of endangering health and safety of Facility users.
- .5 Address all activities of the Work including those of subcontractors.
- .6 Review Health and Safety Plan regularly during the Work. Update as conditions warrant to address emerging risks and hazards, such as whenever new 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.

1.12 HEALTH AND  
SAFETY PLAN  
(Cont'd)

- .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.

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.

- 1.14 TRAINING  
(Cont'd)
- .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
- .1 Not withstanding requirement to abide by federal and provincial health and safety regulations; ensure the following minimum safety rules are obeyed by persons granted access to Work Site:
- .1 Wear appropriate PPE pertinent to the Work or assigned task; minimum being hard hat, safety footwear, safety glasses and hearing protection.
- .2 Immediately report unsafe condition at site, near-miss accident, injury and damage.
- .3 Maintain site and storage areas in a tidy condition free of hazards causing injury.
- .4 Obey warning signs and safety tags.
- .2 Brief persons of disciplinary protocols to be taken for non compliance. Post rules on site.
- 1.16 CORRECTION OF  
NON-COMPLIANCE
- .1 Immediately address health and safety non-compliance issues identified by authority having jurisdiction or by Departmental Representative.
- .2 Provide Departmental Representative with written report of action taken to correct non-compliance of health and safety issues identified.
- .3 Departmental Representative will stop Work if non-compliance of health and safety regulations is not corrected in a timely manner.
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- 1.17 INCIDENT REPORTING .1 Investigate and report the following incidents to Departmental Representative:  
.1 Incidents requiring notification to Provincial Department of Occupational Safety and Health, Workers Compensation Board or to other regulatory Agency.  
.2 Medical aid injuries.  
.3 Property damage in excess of \$10,000.00,  
.4 Interruptions to Facility operations resulting in an operational lost to a Federal department in excess of \$5000.00.
- .2 Submit report in writing.
- 1.18 HAZARDOUS PRODUCTS .1 Comply with requirements of Workplace Hazardous Materials Information System (WHMIS).  
.2 Keep MSDS data sheets for all products delivered to site.  
.1 Post on site.  
.2 Submit copy to Departmental Representative.
- 1.19 BLASTING .1 Blasting or other use of explosives is not permitted on site without prior receipt of written permission and instructions from Departmental Representative.
- 1.20 POWDER ACTUATED DEVICES .1 Use powder actuated fastening devices only after receipt of written permission from Departmental Representative.
- 1.21 CONFINED SPACES .1 Abide by occupational health and safety 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.
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1 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 Waters, 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

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
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2 DEFINITIONS  
(Cont'd)

- .5 Buffer zone:(Cont'd)  
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 dredged 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, including roads to the  
dredged disposal field.

4 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.
- .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.
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5 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 contaminate 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 clean-up in accordance with all regulations and procedures stipulated by authority having jurisdiction.

6 DISPOSAL OF  
WASTES

- .1 Do not bury rubbish, demolition debris and waste materials on site.
- .2 Dispose and recycle demolition debris and waste materials to Waste Facility.
- .3 Do not dispose of hazardous waste, volatile materials (such as mineral spirits, paints, thinners etc...) and petroleum products into

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- 6 DISPOSAL OF WASTES  
(Cont'd)
- .3 (Cont'd)  
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 Concrete waste:
    - .1 Do not discharge residual or rejected concrete on site.
    - .2 Immediately clean any accidental release of concrete on site prior to solidification.
    - .3 Do not wash and clean concrete vehicles on site.
    - .4 Perform dumping of residual material and truck cleaning operations only at the concrete plant. Follow environmental regulations and good practices as approved by the Provincial Department of the Environment and other authorities having jurisdiction.
- 7 WATER QUALITY
- .1 Conduct excavation work of a watercourse or wetland in such a manner to limit turbidity and reduce sediment suspension in the water to an absolute minimum at all times.
    - .1 Maintain appropriate production speed and momentum of the excavation equipment. Make adjustments as required and as approved by Departmental Representative.
    - .2 Strategically position excavator equipment and haul vehicles to avoid over the water swings of excavated material whenever possible.
  - .2 Where work may affect the water quality adjacent to water intake lines used by Lobster Holding Facilities, Fish Processing Facilities and other harbour users, schedule work in cooperation with the Harbour Authority as directed by Departmental Representative to minimize interference and impact to harbour users.
  - .3 Visually monitor the water turbidity of the surrounding areas adjacent to the work and up to the established dredge limit of 200 metre.
    - .1 Should excessive change occur in the turbidity beyond the dredge limit which differs from existing conditions of the surrounding water bodies, such as a distinct
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- 7 WATER QUALITY .3 (Cont'd)  
(Cont'd) .1 (Cont'd)  
color difference; notify the Departmental  
Representative to obtain appropriate  
mitigation measures to be followed.
- .4 Water quality during suction dredging:  
.1 Minimize out-fall of the dredge material  
at the disposal site by placing the pipeline  
outfall at or near the water level surface.  
.2 Restrict vessel traffic adjacent to the  
disposal site to an absolute minimum to avoid  
the re-suspension of dredged material from  
propeller wash.
- .5 Water contamination by preservative treated  
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 Do not cut treated wood lumber over the  
surface of a watercourse or wetland.  
.3 Do not use liquid applied preservative  
products over the surface of a watercourse or  
wetland.  
.4 Wood treated with Chromate Copper  
Arsenate (CCA) or Ammoniac Copper Zinc  
Arsenate (ACZA) must be CSA or AWPA approved.  
.5 Do not use timber and lumber treated  
with creosote, petroleum and pentachlorophenol  
for any part of the Work.
- .6 Do not washdown equipment within a 30 metre  
buffer zone of a wetland, watercourse or other  
identified environmentally sensitive area.
- 8 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.
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9 BIRD AND  
BIRD HABITAT

- .1 Become knowledgeable with 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.

10 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 ensure that they are free of marine growth and alien species.
  - .1 Equipment shall include boats, barges, cranes, excavators, haul trucks, pumps, pipe lines and other all miscellaneous tools and

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- 10 FISH AND FISH HABITAT  
(Cont'd)
- .2 (Cont'd)
    - .1 (Cont'd)  
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 the 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 on-going 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;
      - .4 Cleaning method and cleaning agent(s) used.
-

10 FISH AND  
FISH HABITAT  
(Cont'd)

- .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.

11 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.

12 FIRES

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

- 1 Related Requirements .1 Particular requirements for inspection and testing to be carried out by testing laboratory designated by Departmental Representative are specified under various sections.
- 2 Appointments and Payments .1 Departmental Representative will appoint and pay for services of testing laboratory except for the following:  
.1 Inspection and testing required by laws, ordinances, rules, regulations or orders of public authorities.  
.2 Inspection and testing performed exclusively for Contractor's convenience.  
.3 Tests specified to be carried out by Contractor under the supervision of Departmental Representative.  
.4 Tests requested by Departmental Representative to confirm material specifications when the applicable manufacturer's documentation or test results are unavailable.  
.5 Additional tests specified in paragraph 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 Departmental Representative may require to verify acceptability of corrected work.
- 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 Departmental Representative sufficiently in advance of operations to allow for assignment of laboratory personnel and scheduling of tests.
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3 Contractor's  
Responsibilities  
(Cont'd)

- .3 Where materials are specified to be tested, deliver representative samples in required quantity to testing laboratory.
- .4 Pay costs for uncovering and making good work that is covered before required inspection or testing is completed and approved by Departmental Representative.

- 1 Section Includes .1 Sanitary Facilities.
- 2 Related Sections .1 Section 01 56 00 - Temporary Barriers and Enclosures.
- 3 Access .1 Provide and maintain adequate access to project site.
- .2 If authorized to use existing roads for access to project site, maintain such roads for duration of contract and make good damage resulting from Contractor's use of roads.
- 4 Site Storage .1 Do not unreasonably encumber premises with products.
- 5 Site Utilities .1 Provide sanitary facilities, fresh water and electricity, in accordance with governing regulations and ordinances. Contractor will make his own arrangements for utilities and they will be provided at Contractor's expense.
- 6 Removal of Temporary Facilities .1 Remove temporary facilities from site when directed by Departmental Representative.

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- 1 Section Includes .1 Barriers.  
.2 Traffic Controls.  
.3 Fire Routes.
- 2 Related Section .1 Section 01 52 00 - Construction Facilities.
- 3 Installation and Removal .1 Provide temporary controls in order to execute Work expeditiously.  
.2 Remove from site all such work after use.
- 4 Public Traffic Flow .1 Provide and maintain competent signal flag operators, traffic signals, barricades and flares, lights, or lanterns, signage as required to perform Work and protect the public. Follow NB DOT standards and the Work Area Traffic Control Manual.  
.2 Maintain Construction site and signage and control walk on traffic during work hours and after hours if work site is not secured.
- 5 Fire Routes .1 Maintain access to property including overhead clearances for use by emergency response vehicles.
- 6 Protection for Off-Site and Public Property .1 Protect surrounding private and public property from property damage during performance of Work.  
.2 Be responsible for damage incurred.

- 1 General .1 Conduct cleaning and disposal operations to comply with local ordinances and anti-pollution laws.
- .2 Store volatile wastes in covered metal containers, and remove from premises daily.
- .3 Prevent accumulation of wastes which create hazardous conditions.
- .4 Provide adequate ventilation during use of volatile or noxious substances.
- 2 Materials .1 Use only cleaning materials recommended by manufacturer of surface to be cleaned, and as recommended by cleaning material manufacturer.
- 3 Cleaning During Construction .1 Maintain project grounds, and public properties free from accumulation of waste materials and rubbish.
- .2 Provide on site garbage containers for collection of waste materials and rubbish.
- .3 Remove waste materials and rubbish from the site or building each day.
- 4 Final Cleaning .1 In preparation for substantial completion, conduct inspection of sight-exposed interior and exterior surface. Remove debris and surplus material from site.
- .2 Broom clean paved surfaces, rake clean other surfaces of ground.

1 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 WASTE MANAGEMENT

- .1 Incorporate environmental and sustainable practices in managing waste resulting from work.
- .2 Divert as much waste as possible from landfill.
- .3 Coordinate work of subtrades and subcontractors to ensure all possible waste reduction and recycling opportunities are taken.
- .4 During demolition and removal work separate materials and equipment at source. Carefully dismantle, label and stockpile alike items for the following purposes:
- .1 Dredged materials to be stored on site adjacent to Harbour Authority building.
  - .2 Concrete, rock ballast and untreated timber is considered C&D materials, and disposed of at approved C&D site.
  - .3 Treated timber is to sent to regional land fill facility.
  - .4 Segregating remaining waste and debris into various individual waste categories for disposal in a "non-mixed state" as recommended by waste processing/landfill sites.
- .5 Isolate product packaging and delivery containers from general waste stream. Send to recycling facility or return to supplier or manufacturer.
- .6 Recycle leftovers and remnants of new materials whenever possible.
- .7 Establish methods whereby hazardous and toxic materials, and their containers used in the work are properly handled and stored on site.
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3 DISPOSAL  
REQUIREMENTS

- .1 Disposal of volatile materials, mineral spirits, oil, paint, and other hazardous materials into waterways, storm, or sanitary sewers is prohibited. Dispose in accordance with applicable federal and provincial laws and regulations.
- .2 Dispose of waste only at approved waste processing facilities or landfill sites approved by authority having jurisdiction.
- .3 Contact the authority having jurisdiction prior to commencement of work, to determine what, if any, demolition and construction waste materials have been banned from disposal in landfills and at transfer stations. Take appropriate action to isolate such banned materials at site of work and dispose in strict accordance with provincial and municipal regulations. Waste from Kent County are to be identified as such and the surcharge paid at regional landfill.
- .4 Transport and dispose of waste intended for waste processing plant or landfill facility in separated condition and to Operator's rules and recommendations in support of their effort to recycle, reduce and divert certain waste stream from general landfill.
- .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.

- 1 Record Drawings .1 Departmental Representative will provide two sets of white prints for record drawing purposes.
- .2 Maintain project record drawings and record accurately significant deviations from Contract documents caused by site conditions and changes ordered by Departmental Representative.
- .3 Make "as-built" changes in red ink.
- .4 Record following information:  
.1 Depths of various elements in relation to site survey datum.  
.2 Field changes of dimension and detail.  
.3 Changes made by Change Order or Field Order.
- .5 At completion of project and prior to final inspection, neatly transfer notations to second set and submit both sets to Departmental Representative.