

1.1 RELATED REQUIREMENT

- .1 Appendix B –Hazardous Materials Inventory Database

1.2 REFERENCES

- .1 Canadian Standards Association (CSA International)
 - .1 CSA S350-M1980 (R2003), Code of Practice for Safety in Demolition of Structures.
- .2 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
 - .1 Material Safety Data Sheets (MSDS)
- .3 Provincial Legislation
 - .1 Legislation specific to Authority Having Jurisdiction for work governed by this Section
- .4 Transport Canada
 - .1 Transportation of Dangerous Goods Act, 1992 (TOGA), c. 34

1.3 DEFINITIONS

- .1 Demolish: Detach items from existing construction and legally dispose of them off site, unless indicated to be removed and salvaged or removed and reinstalled.
- .2 Remove and Salvage (Remove and Turn Over to Client): Detach items from existing construction and deliver them to *Owner*.
- .3 Existing to Remain: Existing items of construction that are not to be removed and that are not otherwise indicated to be removed, removed and salvaged, or removed and reinstalled.

1.4 ADMINISTRATIVE REQUIREMENTS

- .1 Convene pre-demolition meeting two weeks prior to the commencement of work of this Section:
 - .1 Examine the site for all locations where the work of this Section will occur in order to determine all conditions and the extent of the work required.
 - .2 Verify with *Owner* and *Consultant* all items that are to be salvaged or relocated and which items are to be removed.
 - .3 Items to be salvaged and delivered to the Owner include, but are not limited to:
 - .1 Radio tower structure
 - .2 Radio antenna
 - .4 Determine the means of access and egress together with the nature and quantity of the demolition required.
 - .5 Determine safe procedures and engineering requirements.

1.5 QUALITY ASSURANCE

- .1 Qualifications of Demolition Firm:
 - .1 The demolition firm shall be able to demonstrate satisfactory experience in the demolition of

entire buildings, parts of buildings and in demolition similar to the type of demolition required by the *Contract*.

- .2 Provide evidence of experience if required by *Consultant*.
- .3 The demolition firm shall have sufficient knowledge of building construction, and the ability in determining and costing concealed conditions, so as not to cost additional monies to the *Owner*.

.2 Professional Engineer:

- .1 Retain a structural engineer as required by the British Columbia Building Code.
- .2 The structural engineer shall:
 - .1 Provide supervision of demolition parts of the Work.
 - .2 Prepare Shop Drawings that include demolition coordination procedures.
 - .3 Determine demolition methods and phasing as necessary to meet the requirements of the Contract.
 - .4 Check structural members and components to be cut or removed, and direct the method of separation, cutting, removal, and necessary safety precautions to be taken.
 - .5 Check that the removal of structural members or components does not cause remaining items to become unsafe.
 - .6 Ensure that the removal of items does not impact on items to remain in a manner that causes damage or causes them to become unsafe.
 - .7 Prepare and submit a report to the Authority Having Jurisdiction at the completion of the demolition part of the *Work*.

.3 Regulatory Requirements: Perform work as follows; use most restrictive requirements where differences occur between the municipal, provincial, and federal jurisdictions:

- .1 Provincial and Federal Requirements: Perform work in accordance with governing environmental notification requirements and regulations of the Authority Having Jurisdiction.
- .2 Municipal Requirements: Perform hauling and disposal operations in accordance with regulations of Authority Having Jurisdiction.
- .3 Comply with the requirements of CSA S350, Code of Practice for Safety in Demolition of Structures.

.4 Arrange and pay for any additional permits, notices, and inspections necessary for the execution and completion of the *Work* of this Section.

1.6 PERMITS AND REGULATIONS

- .1 The *Owner* is responsible to arrange and pay for the Demolition Permit. The Contractor is responsible to arrange and pay for any additional permits, notices, and inspections necessary for the execution and completion of the demolition parts of the *Work*.
- .2 Do not commence the demolition parts of the *Work* until permit(s) is/are received and posted.

1.7 SUBMITTALS

- .1 Submissions involving structural components shall be signed and sealed by a professional engineer licensed to practice in the Province of British Columbia.
- .2 Submit Shop Drawings, diagrams, and details, supplemented as follows:
 - .1 Ten calendar days prior to the start of the demolition Work submit for review drawings, diagrams, or details showing the sequence of the Work and supporting structures, meeting the requirements of Authorities Having Jurisdiction.
 - .2 Show methods of demolition and indicate items or parts of the Work requiring salvage (Remove and Salvage) or relocation (Remove and Reinstall).
 - .3 Show removals of structural, mechanical, electrical elements.
 - .4 For Work involving structural elements, Shop Drawings shall bear the signature and stamp of a structural engineer (P.Eng.) licensed to practice in the Province of British Columbia.
 - .5 Deliver the Shop Drawings to the Authority Having Jurisdiction and submit copies to *Consultant*.

- .6 Submit a detailed Safety Plan, specifying exactly how adjacent properties will be protected from damage and workers protected from harm.
- .7 Provide written notice to the Utility Authorities controlling services and appurtenances that may be affected by the Work of this Section and submit a copy of each notice to *Owner* and *Consultant*.
- .8 Certificates: Submit copies of certified weigh bills, bills of lading or receipts from authorized disposal sites and re-use and recycling facilities for material removed from site on weekly basis.

1.8 WASTE MANAGEMENT AND DISPOSAL

- .1 Except where otherwise specified, all materials indicated or specified to be permanently removed from the Place of the Work shall become *Contractor's* property. Maximize to the fullest extent possible, salvage, and recycling of such materials, consistent with proper economy and expeditious performance of the *Work*.
- .2 To reduce the quantity of material otherwise destined for disposal at a landfill, the *Contractor* is encouraged to consider utilizing the services of businesses and non-profit organizations that specialize in salvage and recycling of used building materials but does so at his own option and risk.
- .3 A current listing of recyclers specializing in specific categories of materials may be obtained during normal office hours from:

RCBC
Recycling Council of British Columbia
Recycling Hotline
Lower Mainland: 604-732-9253
British Columbia Toll Free: 1-800-667-4231
Email: hotline@rcbc.ca
Website: www.rcbc.ca

1.9 SITE CONDITIONS

- .1 Protect structures to remain, including dewatering and other protection as required, in accordance with requirements of the Authorities Having Jurisdiction.
- .2 Provide hoarding and security fencing as required to protect children and the general public from accidental falls and prevent unauthorized access to site.
- .3 Take over structures to be demolished based on the condition on the date that Bids are submitted.
- .4 Protect existing site features to remain or identified for salvage, re-use, or relocation; make repairs and restore to similar condition to existing where damage to these items occurs at no cost to Owner:
 - .1 Remove and store salvaged materials to prevent damage and theft.
 - .2 Store and protect salvaged materials as required for maximum preservation of material.
 - .3 Handle salvaged materials the same as new materials.
- .5 Protect existing site features and structures, trees, plants and foliage on site, and adjacent properties.

1.10 REMOVAL AND DEMOLITION OPERATIONS

- .1 Do Work in accordance with the British Columbia OHS Act, Regulation and Code.

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- .2 A supervisor with previous demolition experience must be present on the site at all times throughout the work of this Section.
 - .3 Perform surveys as the work progresses to detect hazards resulting from selective demolition activities.
 - .4 Perform demolition with extreme care. Confine effects of demolition to those parts that are to be removed.
 - .5 Remove, handle and transport items that are indicated to be salvaged, relocated, or stored for future use. Transport items to storage area(s) designated by Owner. Perform the Work in a manner to prevent any damage to Products during removal and in storage. Items damaged during removal will be inspected by the Consultant and Owner. The Consultant and Owner will determine the extent of the damage and accept or refuse items.
 - .6 At the end of each workday, leave the work in a safe and stable condition.
 - .7 Clean up rubble and debris resulting from the work promptly and dispose of it at the end of the day or place it in waste disposal bins. Empty waste disposal bins on a regular basis.

END OF SECTION