

PART 1. GENERAL

1.1 RELATED SECTIONS

- .1 Section 01 10 10 - General Instructions

1.2 STANDARD

- .1 National Building Code of Canada (latest edition)
- .2 Nova Scotia Building Code (latest edition)

1.3 PROTECTION

- .1 Prevent movement, settlement, and other damage to parts of building to remain in place. Provide bracing and shoring required.
- .2 Keep noise, dust, and inconvenience to occupants to a minimum.
- .3 Protect building systems, services and equipment designated to remain or be relocated.
- .4 Provide temporary covers, railings, supports and other protection as required.
- .5 Protect existing room finishes identified in drawings to remain. Make good to match, at no additional cost to the Departmental Representative. Cost, including material and labour, shall be borne by the trade responsible for damage.

1.4 NOTICE

- .1 Notify the Departmental Representative before disrupting building access or services.

1.5 COORDINATION

- .1 Work specified in this section is not intended to supercede demolition and renovation work specified in other sections.

- .2 Coordinate demolition and renovation work with other sections.

PART 2. PRODUCTS

2.1 Not Used

PART 3. EXECUTION

3.1 GENERAL

- .1 Execute demolition work in a careful and orderly manner with least possible disturbance to the staff and public. Sprinkle debris with water where necessary to prevent annoyance from dust.
- .2 Where work of this contract requires work to mechanical and electrical systems inside existing walls, ceilings, bulkheads, etc., be responsible for opening areas as necessary to expose work areas. After removals have been carried out, new mechanical and electrical work is completed, and all work has been inspected, be responsible for restoring disturbed surfaces to match their original, undisturbed condition. Replace broken or otherwise damaged fasteners and anchorage systems.

3.2 DEMOLITION WORK

- .1 Demolition:
 - .1 Do demolition work indicated on drawings and as required to permit new construction.
 - .2 Remove parts of existing building, as indicated, to permit new construction.
 - .3 Concrete demolition:
 - .1 When removing portions of concrete, saw-cut to provide neat sides on remaining portion as required.
- .2 Arrange for electrical and mechanical trades to properly cap off abandoned lines and services as required.

- .3 Carefully remove items to be reused and protect from damage.

3.3 SALVAGE AND DISPOSAL

- .1 All materials resulting from demolition work, except items to be reused or items identified to be retained by Departmental Representative, shall become the property of the Contractor. Dispose of material off site in accordance with authority having jurisdiction; no burning or selling at site will be permitted.

3.4 DECOMMISSIONING OF MONITORING WELLS

- .1 Decommission existing monitoring wells indicated prior to commissioning new oil tanks.
- .2 Remove all pumping equipment including pumps, tubing, and other obstructions from the well.
- .3 The actual depth of the well is to be measured and recorded. Provide to the consultant.
- .4 Existing well casing to be cut off to a minimum of 0.3m below finished grade prior to grouting.
- .5 Monitoring wells to be decommissioned by entirely filling the monitoring well with approved grout by either the pressure grout method or hand placement of dry granular bentonite chips. Submit procedure to the consultant for review prior to installation.
- .6 Grade the location of the former well to eliminate surface water ponding. The potential for grout settlement in the borehole over time is to be accounted for when grading. Apply approved topsoil to promote establishment of vegetation.
- .7 Submit a site plan documenting exact locations of each decommissioned monitoring well, as well as the methodology used, to Nova Scotia Department of Environment upon completion.

END OF SECTION

1. GENERAL

1.1 REFERENCES

- .1 Export and Import of Hazardous Waste Regulations SOR/2002-300.
- .2 National Fire Code of Canada 2005.
- .3 Transportation of Dangerous Goods Act (TDG Act) 1999, (c. 34).
- .4 Transportation of Dangerous Goods Regulations (T-19.01-SOR/2003-400).

1.2 DEFINITIONS

- .1 Dangerous Goods: product, substance, or organism that is specifically listed or meets hazard criteria established in Transportation of Dangerous Goods Regulations.
- .2 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 environment or adversely affect health of persons, animals, or plant life when released into the environment.
- .3 Hazardous Waste: any hazardous material that is no longer used for its original purpose and that is intended for recycling, treatment or disposal.
- .4 Workplace Hazardous Materials Information System (WHMIS): a Canada-wide system designed to give employers and workers information about hazardous materials used in workplace. Under WHMIS, information on hazardous materials is provided on container labels, material safety data sheets (MSDS), and worker education programs. WHMIS is put into effect by combination of federal and provincial laws.

1.3 SUBMITTALS

- .1 Submit product data in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Submit to Departmental Representative, current Material Safety Data Sheet (MSDS) for each hazardous material required prior to bringing hazardous material on site.

- .3 Submit hazardous materials management plan to Departmental Representative that identifies hazardous materials, their use, their location, personal protective equipment requirements, and disposal arrangements.

1.4 STORAGE AND HANDLING

- .1 Co-ordinate storage of hazardous materials with Departmental Representative and abide by internal requirements for labeling and storage of materials and wastes.
- .2 Store and handle hazardous materials and wastes in accordance with applicable federal and provincial laws, regulations, codes, and guidelines.
- .3 Store and handle flammable and combustible materials in accordance with current National Fire Code of Canada requirements.
- .4 Keep no more than 45 litres of flammable and combustible liquids such as gasoline, kerosene and naphtha for ready use.
 - .1 Store flammable and combustible liquids in approved safety cans bearing the Underwriters' Laboratory of Canada or Factory Mutual seal of approval.
 - .2 Storage of quantities of flammable and combustible liquids exceeding 45 litres for work purposes requires the written approval of the Departmental Representative.
- .5 Transfer of flammable and combustible liquids is prohibited within buildings.
- .6 Do not transfer flammable and combustible liquids in vicinity of open flames or heat-producing devices.
- .7 Do not use flammable liquids having flash point below 38 degrees C, such as naphtha or gasoline as solvents or cleaning agents.
- .8 Store flammable and combustible waste liquids for disposal in approved containers located in safe, ventilated area. Keep quantities to minimum.
- .9 Observe smoking regulations, smoking is prohibited in areas where hazardous materials are stored, used, or handled.
- .10 Storage requirements for quantities of hazardous materials and wastes in excess of 5 kg for solids, and 5 litres for liquids:
 - .1 Store hazardous materials and wastes in closed and sealed containers.

- .2 Label containers of hazardous materials and wastes in accordance with WHMIS.
- .3 Store hazardous materials and wastes in containers compatible with that material or waste.
- .4 Segregate incompatible materials and wastes.
- .5 Ensure that different hazardous materials or hazardous wastes are not mixed.
- .6 Store hazardous materials and wastes in secure storage area with controlled access.
- .7 Maintain clear egress from storage area.
- .8 Store hazardous materials and wastes in location that will prevent them from spilling into environment.
- .9 Have appropriate emergency spill response equipment available near storage area, including personal protective equipment.
- .10 Maintain inventory of hazardous materials and wastes, including product name, quantity, and date when storage began.
- .11 Ensure personnel have been trained in accordance with Workplace Hazardous Materials Information System (WHMIS) requirements. Report spills or accidents immediately to Departmental Representative. Submit a written spill report to Departmental Representative within 24 hours of incident.

1.5 TRANSPORTATION

- .1 Transport hazardous materials and wastes in accordance with federal Transportation of Dangerous Goods Act, Transportation of Dangerous Goods Regulations, and applicable provincial regulations.
- .2 If exporting hazardous waste to another country, ensure compliance with federal Export and Import of Hazardous Waste Regulations.
- .3 If hazardous waste is generated on site:
 - .1 Co-ordinate transportation and disposal with Departmental Representative.
 - .2 Ensure compliance with applicable federal, provincial and municipal laws and regulations for generators of hazardous waste.
 - .3 Use licensed carrier authorized by provincial authorities to accept subject material.
 - .4 Prior to shipping material obtain written notice from intended hazardous waste treatment or disposal facility that it will accept material and that it is licensed to accept this material. Label container[s] with legible,

visible safety marks as prescribed by federal and provincial regulations.

- .5 Ensure that trained personnel handle, offer for transport, or transport dangerous goods.
- .6 Provide photocopy of shipping documents and waste manifests to Departmental Representative.
- .7 Track receipt of completed manifest from consignee after shipping dangerous goods. Provide a photocopy of completed manifest to Departmental Representative.
- .8 Report discharge, emission, or escape of hazardous materials immediately to Departmental Representative and appropriate provincial authority. Take reasonable measures to control release.

2. PRODUCTS

2.1 MATERIALS

- .1 Only bring on site quantity of hazardous materials required to perform work.
- .2 Maintain MSDSs in proximity to where materials are being used. Communicate this location to personnel who may have contact with hazardous materials.

3. EXECUTION

3.1 DISPOSAL

- .1 Dispose of hazardous waste materials in accordance with applicable federal and provincial acts, regulations, and guidelines.
- .2 Recycle hazardous wastes for which there is authorized/permitted, cost effective recycling process available.
- .3 Send hazardous wastes to authorized hazardous waste disposal or treatment facilities.
- .4 Burning, diluting, or mixing hazardous wastes for purpose of disposal is prohibited.
- .5 Disposal of hazardous materials in waterways, storm or sanitary sewers, or in municipal solid waste landfills is prohibited.

- .6 Dispose of hazardous wastes in timely fashion in accordance with applicable provincial regulations.
- .7 Minimize generation of hazardous waste to maximum extent practicable. Take necessary precautions to avoid mixing clean and contaminated wastes.
- .8 Identify and evaluate recycling and reclamation options as alternatives to land disposal, such as:
 - .1 Hazardous wastes recycled in manner constituting disposal.
 - .2 Hazardous waste burned for energy recovery.
 - .3 Lead-acid battery recycling.
 - .4 Hazardous wastes with economically recoverable precious metals.

END OF SECTION