

## **Part 1 General**

### **1.1 RELATED SECTIONS**

- .1 Section 01 78 00 – Closeout Submittals.

### **1.2 REFERENCES**

- .1 American Society for Testing and Materials (ASTM).
  - .1 ASTM E1971-05, Standard Guide for Stewardship for the Cleaning of Commercial and Institutional Buildings.
- .2 Canadian Federal Legislation.
  - .1 Canadian Environmental Protection Act (CEPA), 1999, updated 2011.
  - .2 Canadian Environmental Assessment Act (CEAA), 1992, updated 2010.
  - .3 Transportation of Dangerous Goods Act (TDGA), 1992, updated 2011.
  - .4 Motor Vehicle Safety Act (MVSA), 1993, updated 2010.

### **1.3 QUALITY ASSURANCE**

- .1 Perform work in compliance with CEPA, CEAA, TDGA, MVSA, and all applicable Federal, Provincial, and local regulations.
- .2 Except for items specifically noted, waste or abandoned materials and equipment are Contractor's property and must be promptly removed from site.

### **1.4 WASTE MANAGEMENT**

- .1 Ensure proper disposal procedures as indicated herein are maintained throughout project.
- .2 Provide on-site covered commercial waste containers for collection of non-hazardous waste materials and debris.
- .3 Keep containers covered to minimize spread of dust or other contaminants. Deposit waste in containers as work progresses and at end of each working day. Remove waste at regular intervals during construction. Do not allow waste to build up outside of commercial waste containers at any time.
- .4 Do not use existing facility's disposal containers.
- .5 Place materials defined as hazardous, volatile, or toxic waste in special metal containers designated for hazardous waste and dispose of at end of each working day.

- .6 Waste Management and Disposal.
  - .1 Separate and recycle packaging and waste materials to maximum extent economically possible.
  - .2 Collect and separate plastic, paper packaging, and corrugated cardboard in designated areas for recycling as work proceeds and at completion of the work.
  - .3 Separate wood waste and place in designated areas in following categories for disposal or recycling: solid wood/softwood/hardwood, and treated, painted, or contaminated wood.
  - .4 Set aside damaged wood and dimensional lumber off-cuts for approved alternative uses (e.g. blocking).
  - .5 Place materials defined as hazardous or toxic waste in designated containers.
  - .6 Use least toxic sealants, adhesives, sealers, and finishes necessary to comply with requirements of this Section.
  - .7 Close and seal tightly, all partly used sealant containers and store protected in well ventilated fire-safe area at moderate temperature.
  - .8 Place used sealant tubes and other containers in areas designated for hazardous materials.
  - .9 Unused paint, caulking, and sealing compound materials must be disposed of at an official hazardous material collections site in accordance with legislation and authorities having jurisdiction. Do not dispose into sewer system, onto ground or in other location where it will pose health or environmental hazard.
  - .10 Ensure all emptied containers are sealed and stored safely for disposal.
  - .11 Fold up metal banding, flatten, and place in designated area for recycling.
  - .12 Designate on-site location for containers which facilitate recyclable materials without hindering daily operations.

## **1.5 DISPOSAL OF NON-HAZARDOUS WASTE**

- .1 Do not sell or bury rubbish on site.
- .2 Obtain approval and pay for use of off-site municipal collection or local dump or sanitary landfill sites, depending upon materials involved in accordance with authorities having jurisdiction.
- .3 Where recycling is available, collect waste by type and coordinate pickup or delivery to recycling or collection facility.

## **1.6 DISPOSAL OF HAZARDOUS WASTE**

- .1 Obtain legislation governing disposal of hazardous and toxic materials, and pay for disposal of these materials in accordance with this legislation and authorities having jurisdiction and requirements of contract documents.
- .2 Do not dispose of water or volatile materials such as: mineral spirits, oil, petroleum based lubricants, or toxic cleaning solutions into watercourses, storm or sanitary sewers.

## **Part 2 Products**

## **Part 3 Execution**

### **3.1 PROGRESSIVE CLEANING**

- .1 Maintain cleanliness of work and surrounding site to comply with federal, provincial, and local fire and safety laws, ordinances, codes, and regulations.
- .2 Do not use existing facility's cleaning supplies or equipment.
- .3 Coordinate cleaning operations with disposal operations to prevent accumulation of dust, dirt, debris, rubbish, and waste materials that will create hazardous conditions.
- .4 Vacuum clean interior areas with HEPA vacuum prior to start of finish work, and maintain areas free of dust and other contaminants during finishing operations. Continue vacuum cleaning on an as-needed basis until building is ready for substantial completion or occupancy.
- .5 Schedule cleaning operations so that resulting dust and other contaminants will not fall on wet, newly painted surfaces nor contaminate building systems.
- .6 Use only cleaning materials recommended by manufacturer of surface to be cleaned, and as recommended by cleaning manufacturer.

### **3.2 FINAL CLEANING**

- .1 When work is Substantially Performed, remove surplus products, tools, construction machinery and equipment not required for performance of remaining work. Conduct inspection of exposed interior surfaces.
- .2 Remove grease, dust, dirt, stains, labels, fingerprints, and other foreign materials from exposed interior finished surfaces including glass and other polished surfaces.
- .3 Clean and polish glass, hardware, ceramic wall tile, stainless steel, chrome, baked enamel, mechanical and electrical fixtures, etc.
- .4 Clean lighting reflectors, lenses, and other lighting surfaces.
- .5 Vacuum clean and dust building interiors, behind grilles, louvers and screens with HEPA vacuum.
- .6 Replace heating, ventilating and air conditioning filters if units were operated during construction.
- .7 Remove waste containers and debris, and leave work site clean and suitable for occupancy.

END OF SECTION