

**Part 1            General**

**1.1                SECTION INCLUDES**

- .1            Removal of existing light standard.

**1.2                SITE CONDITIONS**

- .1            Site Environmental Requirements.
  - .1            Protect trees, plants and foliage on site and adjacent properties where indicated.

**Part 2            Products**

**Part 3            Execution**

**3.1                PREPARATION**

- .1            Verify extent and location of items designated for removal and disposal; and items to remain.
- .2            Notify and obtain approval of utility company before starting demolition.

**3.2                REMOVAL OPERATIONS**

- .1            Remove existing light standard and other items as indicated.
- .2            Do not disturb items designated to remain in place.
- .3            Dispose of materials at authorized facilities approved in Waste Management Plan.

**3.3                PROTECTION**

- .1            Repair damage to adjacent materials or property caused by selective site demolition.

**END OF SECTION**

**Part 1            General**

**1.1                SECTION INCLUDES**

- .1            Procedures for dealing with hazardous materials brought onto the Project site.

**1.2                REFERENCES**

- .1            Definitions:
  - .1            Dangerous Goods: product, substance, or organism specifically listed or meets hazard criteria established in Transportation of Dangerous Goods Regulations.
  - .2            Hazardous Material: product, substance, or organism used for its original purpose; and is either dangerous goods or material that will cause adverse impact to environment or adversely affect health of persons, animals, or plant life when released into the environment.
  - .3            Hazardous Waste: hazardous material no longer used for its original purpose and that is intended for recycling, treatment or disposal.
- .2            Reference Standards:
  - .1            ECD Energy & Environment Canada
    - .1            Green Globes Canada, Design for New Construction and Major Retrofits v.2 2014
  - .2            Canadian Environmental Protection Act, 1999 (CEPA 1999)
    - .1            Export and Import of Hazardous Waste and Hazardous Recyclable Material Regulations (SOR/2005-149).
  - .3            Department of Justice Canada (Jus)
    - .1            Transportation of Dangerous Goods Act, 1992 (TDG Act) 1992, (c. 34).
    - .2            Transportation of Dangerous Goods Regulations (T-19.01-SOR/2001-286).
  - .4            Health Canada / Workplace Hazardous Materials Information System (WHMIS)
    - .1            Material Safety Data Sheets (MSDS).

**1.3                SUBMITTALS FOR REVIEW**

- .1            Section 01 33 00: Submission procedures.
- .2            Product Data:
  - .1            Submit manufacturer's instructions, printed product literature and data sheets for hazardous materials and include product characteristics, performance criteria, physical size, finish and limitations.
  - .2            Submit copy of WHMIS MSDS for each hazardous material required before bringing hazardous material on site.

**1.4                DELIVERY, STORAGE AND HANDLING**

- .1            Deliver, store and handle materials in accordance with manufacturer's written instructions.
- .2            Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3            Transport hazardous materials and wastes in accordance with Transportation of Dangerous Goods Act, Transportation of Dangerous Goods Regulations, and applicable provincial regulations.

- .4 Storage and Handling Requirements:
  - .1 Co-ordinate storage of hazardous materials with Contract Administrator and abide by internal requirements for labelling 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 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.
  - .5 Do not transfer flammable and combustible liquids within buildings.
  - .6 Transfer flammable and combustible liquids away from open flames or heat-producing devices.
  - .7 Solvents and cleaning agents: non-flammable or have flash point above 38 degrees C.
  - .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 stored in separate containers.
    - .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.
    - .12 Report spills or accidents immediately to Contract Administrator. Submit a written spill report to Contract Administrator within 24 hours of incident.

**Part 2            Products**

**2.1                MATERIALS**

- .1    Description:
  - .1    Bring on site only quantities hazardous material required to perform Work.
  - .2    Maintain MSDS in proximity to where materials are being used. Communicate this location to personnel who may have contact with hazardous materials.
  - .3    Sustainability Characteristics: Refer to Section 01 35 63 – Sustainability Certification Project Requirements.

**Part 3            Execution**

**3.1                CLEANING**

- .1    Cleaning: Clean in accordance with Section 01 74 00 – Cleaning and Waste Processing.
- .2    Dispose of hazardous waste materials in accordance with applicable federal and provincial acts, regulations, and guidelines.
  - .1    Recycle hazardous wastes for which there is approved, cost effective recycling process available.
  - .2    Send hazardous wastes to authorized hazardous waste disposal or treatment facilities.
  - .3    Burning, diluting, or mixing hazardous wastes for purpose of disposal is prohibited.
  - .4    Disposal of hazardous materials in waterways, storm or sanitary sewers, or in municipal solid waste landfills is prohibited.
  - .5    Dispose of hazardous wastes in timely fashion in accordance with applicable provincial regulations.
  - .6    Minimize generation of hazardous waste to maximum extent practicable. Take necessary precautions to avoid mixing clean and contaminated wastes.

**END OF SECTION**