

## 1 GENERAL

### 1.01 RELATED SECTIONS

- .1 Section 31 23 10 - Excavating, Trenching and Backfilling.

### 1.02 REFERENCES

- .1 Canadian Federal Legislation
  - .1 Canadian Environmental Protection Act (CEPA), 1988.
  - .2 Canadian Environmental Assessment Act (CEAA), 1995.
  - .3 Transportation of Dangerous Goods Act (TDGA), 1992.
  - .4 Motor Vehicle Safety Act (MVSA), 1995.
- .2 United States Environmental Protection Agency
  - .1 CFR 86.098-10, Emission Standards for 1998 and Later Model Year Otto-Cycle Heavy Duty Engines and Vehicles.
  - .2 CFR 86.098-11, Emission Standards for 1998 and Later Model Year Diesel Heavy Duty Engines and Vehicles.

### 1.03 STORAGE AND PROTECTION

- .1 Protect in accordance with Section 31 23 10 - Excavating, Trenching and Backfilling.
- .2 Protect existing items designated to remain and items designated for salvage. In event of damage to such items, immediately replace or make repairs to approval of Departmental Representative and at no cost to owner.
- .3 In all circumstances ensure that demolition work does not adversely affect adjacent watercourses, groundwater and wildlife, or contribute to excess air and noise pollution.
- .4 Do not dispose of waste of volatile materials such as, mineral spirits, oil, petroleum based lubricants, or toxic cleaning solutions into watercourses, storm or sanitary sewers. Ensure proper disposal procedures are maintained throughout the project.
- .5 Do not pump water containing suspended materials into watercourses, storm or sanitary sewers or onto adjacent properties.
- .6 Control disposal or runoff of water containing suspended materials or other harmful substances in accordance with local authorities.

### 1.04 REGULATORY REQUIREMENTS

- .1 Ensure all work is performed in compliance with all applicable federal regulations.

### 1.05 SUBMITTALS

- .1 Prior to commencement of work onsite submit detailed report indicating

anticipated percentages of reuse, recycling and landfill, schedule of selective demolition, material description and quantities of materials to be salvaged, number and location of dumpsters, anticipated frequency of tipping, and name and address of all waste receiving organizations.

- .2 Supply certified receipts from authorized disposal sites and reuse and recycling facilities for all material removed from site. Written authorization from the Departmental Representative is required to deviate from the receiving organizations listed in waste reduction workplan.

### **1.06 SCHEDULING**

- .1 Ensure project time lines are met without compromising specified minimum rates of material diversion. Notify Departmental Representatives in writing of delays.

## **2 PRODUCTS**

### **2.01 EQUIPMENT**

- .1 Equipment and heavy machinery used to meet or exceed all applicable emission requirements.
- .2 Leave machinery running only while in use, except where extreme temperatures prohibit shutting machinery down.

## **3 EXECUTION**

### **3.01 PREPARATION**

- .1 Inspect site with Departmental Representative and verify extent and location of items designated for removal, disposal, alternative disposal, recycling, salvage and items to remain.
- .2 Locate and protect utilities. Preserve active utilities traversing site in operating condition.
- .3 Notify and obtain approval of utility companies before starting demolition.

### **3.02 SEQUENCES OF OPERATION**

- .1 Removal
  - .1 Remove items as indicated.
  - .2 Do not disturb items designated to remain in place.
  - .3 In removal of pavements and concrete slab-on-grade:
    - .1 Protect underlying and adjacent granular materials.
- .2 Backfill
  - .1 Backfill in areas as indicated and in accordance with Section 31 23 10 - Excavating, Trenching and Backfilling.

### 3.03 TEMPORARY SHORING

- .1 Provide temporary support to Main Entrance canopy as required during the removal and reconstruction of the entrance landing, stair and ramp.
- .2 Temporary support to be detailed on Contractor's engineer-stamped shop drawing.
- .3 Remove temporary shoring once retrofit of column supports has been completed.

### 3.04 RESTORATION

- .1 Restore areas and existing works outside areas of demolition to conditions that existed prior to commencement of work.
- .2 Use only soil treatments and procedures which are not harmful to health, are not injurious to plants, and do not endanger wildlife, adjacent watercourses or ground water.

### 3.05 CLEANUP

- .1 Upon completion of work, remove debris, trim surfaces and leave work site clean.
- .2 Use only cleaning solutions and procedures which are not harmful to health, and do not endanger wildlife, adjacent watercourses or ground water.

**END OF SECTION**