

1.1 RELATED WORK

- .1 Section 01 50 00 – Temporary Facilities.
- .2 Section 01 57 14 – Erosion & Sedimentation Control.
- .3 Section 01 74 21 – Construction/Demolition Waste Management and Disposal.
- .4 Section 31 00 99 – Earthworks for Minor Works.
- .5 Section 32 92 23 – Sodding.
- .6 Section 32 93 10 – Trees, Shrubs and Ground Coverings.

1.2 DEFINITIONS

- .1 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 the environment or adversely affect health of persons, animals, or plant life when released into the environment.

1.3 FIRES

- .1 Fires and burning of rubbish on site is not permitted.

1.4 CONTRACTOR'S ACTIVITIES

- .1 Confine operations to the work limits identified on site. Fence to protect others from harm.
- .2 Conduct operations at all times in such a manner as to preserve the natural features and vegetation in the area. Cut and fill slopes shall be blended with adjoining topography. Material from cut and fill slopes or excavations will not be permitted to sluff or roll into surrounding tree cover or to bury any plant material designated to be retained.
- .3 Provide approved dust control measures as approved by Departmental Representative.
- .4 When, in the opinion of the Departmental Representative, damage from construction activities results in damage or destruction of vegetation or other environmental or aesthetic features beyond the designated work area (limit of contract), the Contractor is responsible, at no additional expense to the Contract, to restore the damaged areas to the satisfaction of the Departmental Representative.
- .5 Provide adequate precautions, such as but not limited to, fencing, signage, etc. to ensure safety on the site.
- .6 Conduct or permit attendance at briefing sessions for all trades and construction workforce, highlighting the requirements of environmental procedures and protections outlined in the specifications.

1.5 HAZARDOUS MATERIAL HANDLING

- .1 Store and handle hazardous materials in accordance with applicable federal and provincial laws, regulations, codes and guidelines. Store in location that will prevent spillage into the environment.
- .2 Label containers to WHMIS requirements and keep MSDS data sheets on site for all hazardous materials.
- .3 Maintain inventory of hazardous materials and hazardous waste stored on site. List items by product name, quantity and date when storage began.
- .4 Store and handle flammable and combustible materials in accordance with National Fire Code.
- .5 Transport hazardous materials in accordance with federal Transportation of Dangerous Goods Regulations and applicable Provincial regulations.
- .6 Fueling or maintenance of vehicles and equipment is not permitted on site.
- .7 Exercise care in handling fuel or dangerous fluids to minimize potential for spills.
- .8 Report immediately any spills to the Departmental Representative.

1.6 CUTTING TREES, SHRUBS AND WOODY VEGETATION

- .1 Restrict vegetation removal to areas indicated on drawings or as identified by Departmental Representative.
- .2 Protect roots to drip line during excavation and site grading, etc. to prevent disturbance or damage to protected vegetation. Prevent traffic, dumping or storage of materials over root zones of protected trees.
- .3 Replace all trees removed as part of the Work with new trees. Refer to Section 32 93 10 – Trees, Shrubs and Ground Cover Planting.
- .4 Dispose of any brush and shrub material off site.

1.7 SITE AND PLANT PROTECTION

- .1 Protect trees, plants and grassed areas on site and on adjacent properties.
- .2 Wrap in burlap trees and shrubs to remain located adjacent to construction work areas, storage areas and trucking lanes and surround with protective wood framework from grade level to height of 2 M.
- .3 Restore to good conditions existing grassed areas affected by the Work of this Contract. Refer to Section 32 92 23 - Sodding.

1.8 GRUBBING, EXCAVATION, BURYING, GRADING

- .1 Stripping of topsoil will be permitted only in areas designated or as indicated by Departmental Representative.
- .2 Dispose of all unsuitable material or excess material off-site, in conformance with applicable regulations.
- .3 Cuts and fills are to be properly stabilized to prevent erosion. Employ short-term erosion control techniques as approved by Departmental Representative.
- .4 Install, inspect and maintain in proper working order temporary erosion, siltation and pollution control measures as directed and approved by the Department Representative. Remove device in proper manner and conclusion of the Work.
- .5 Provide temporary drainage and pumping as required to keep excavation and site free from water.
- .6 Pumping water containing silt in suspension into waterways or drainage systems is not permitted.
- .7 To minimize run-off, work on slope or excavations may be halted during periods of heavy rainfall as directed by Departmental Representative.

1.9 DISPOSAL OF WASTES

- .1 Do not bury rubbish and waste materials on site. Dispose in accordance with project waste management requirements specified in Section 01 74 21 - Construction / Demolition Waste Management and Disposal.
- .2 Do not dispose of hazardous waste or volatile materials, such as mineral spirits, paints, thinners, oil or fuel into waterways, storm or sanitary sewers or waste landfill sites.
- .3 Dispose of hazardous waste in accordance with applicable federal and provincial laws, regulations, codes and guidelines.

1.10 POLLUTION CONTROL

- .1 Control emissions from equipment and plant to local authorities' emission requirements.
- .2 Prevent sandblasting and other extraneous materials from contaminating air beyond application area, by providing temporary enclosures.
- .3 Cover or wet down dry materials and rubbish to prevent blowing dust and debris.
- .4 Have appropriate emergency spill response equipment and rapid clean-up kit on site located adjacent to hazardous materials storage area. Provide personal protective equipment required for clean-up.

1.10 POLLUTION CONTROL (continued)

- .5 Report, spills of petroleum and other hazardous materials as well as accidents having potential of polluting the environment to Federal and Provincial Department of the Environment.
- .1 Notify Departmental Representative and submit a written spill report to Departmental Representative within 24 hours of occurrence.

END OF SECTION