

Part 1 General

1.1 SECTION INCLUDES

- .1 Methods and procedures for deconstruction of structures and parts of structures.

1.2 RELATED SECTIONS

- .1 Section 01 35 43 - Environmental Procedures.
- .2 Section 01 35 29 - Health and Safety Requirements.

1.3 REFERENCES

- .1 Canadian Standards Association (CSA International).
 - .1 CSA S350-M1980(R2003), Code of Practice for Safety in Demolition of Structures.

1.4 DEFINITIONS

- .1 Alternate Disposal: reuse and recycling of materials by designated facility, user or receiving organization which has valid Certificate of Approval to operate. Alternative to landfill disposal.
- .2 Deconstruction: systematic dismantling of structure in a manner that achieves safe removal/disposal of hazardous materials and maximum salvage/recycling of materials.
 - .1 Ultimate objective is to recover potentially valuable resources while diverting from landfill what has traditionally been significant portion of waste system.
- .3 Demolition: rapid destruction of structure with or without prior removal of hazardous materials.
- .4 Hazardous Materials: dangerous substances, dangerous goods, hazardous commodities and hazardous products, including but not limited to: corrosive agents, flammable substances, ammunition, explosives, radioactive substances, or other material that can endanger human health, well being or environment if handled improperly.
- .5 Recycle: process by which waste and recyclable materials are transformed or collected for purpose of being transferred into new products.
- .6 Recycling: process of sorting, cleansing, treating and reconstituting solid waste and other discarded materials for purpose of using in altered form.
 - .1 Recycling does not include burning, incinerating, or thermally destroying waste.
- .7 Reuse: repeated use of product in same form but not necessarily for same purpose. Reuse includes:
 - .1 Salvaging reusable materials from remodelling projects, before demolition stage, for resale, reuse on current project or for storage for use on future projects.
 - .2 Returning reusable items including pallets or unused products to vendors.
- .8 Salvage: removal of structural and non-structural materials from deconstruction/disassembly projects for purpose of reuse or recycling.

- .9 Source Separation: acts of keeping different types of waste materials separate, beginning from first time they became waste.
- .10 Waste Management Coordinator (WMC): contractor representative responsible for supervising waste management activities as well as coordinating related, required submittal and reporting requirements.

1.5 QUALITY ASSURANCE

- .1 Ensure Work is performed in compliance with applicable provincial regulations.

1.6 ENVIRONMENTAL REQUIREMENTS

- .1 Do Work in accordance with Section 01 35 43 - Environmental Procedures.

1.7 SITE CONDITIONS

- .1 Protection.
 - .1 Prevent movement, settlement or damage of adjacent structures, and services. Provide bracing, shoring, and underpinning as required. Repair damage caused by deconstruction as directed by Consultant.
 - .2 Support affected structures and, if safety of structure being deconstructed or adjacent structures, or services appears to be endangered, take preventative measures. Cease operations and immediately notify Consultant.
 - .3 Prevent debris from blocking surface drainage system, mechanical and electrical systems.

Part 2 Products

2.1 EQUIPMENT

- .1 Leave equipment and machinery running only while in use.
- .2 Where possible use water efficient wetting equipment/trucks/attachments when minimizing dust.
- .3 Select appropriate tools and use in manner which allows for salvage of materials in best condition possible.

Part 3 Execution

3.1 PREPARATION

- .1 Do Work in accordance with Section 01 35 30 - Health and Safety Requirements.
- .2 If encountered, disconnect and re-route electrical, telephone and communication service lines in area to be deconstructed. Post warning signs on electrical lines and equipment which must remain energized to serve other products during period of demolition.
- .3 Locate and protect utility lines. Do not disrupt active or energized utilities.
- .4 Disconnect and cap mechanical services as required by scope of work.

- .1 Sewer and water lines; remove in accordance with requirements of authority having jurisdiction as directed by Engineer.

3.2 DISASSEMBLY

- .1 Materials to be removed from site are property of Contractor.
- .2 Throughout course of deconstruction pay close attention to connections and material assemblies. Employ workmanship procedures which minimize damage to materials and equipment.
- .3 Ensure workers and subcontractors are briefed and trained to carry out work in accordance with appropriate deconstruction techniques.
- .4 Project supervisor with previous deconstruction experience must be present on site throughout project.
- .5 Deconstruct in accordance with CSA S350-M1980(R2003) and other applicable safety standards.
- .6 Workers must utilize adequate fall protection where appropriate and as required by the authority having jurisdiction.
- .7 Maintain structural integrity of structure.
- .8 Carefully remove doors and frames from structure as indicated on drawings.
- .9 Separate from waste stream, material in condition suitable for reuse and/or recycling.
- .10 Remove and store materials to be salvaged, in manner to prevent damage.
 - .1 Store and protect in accordance with requirements for maximum preservation of material.
 - .2 Handle salvaged materials as new materials.
- .11 Source separate for recycling materials that cannot be salvaged for reuse.
- .12 Remove materials that cannot be salvaged for reuse or recycling and dispose of in accordance with applicable codes at licensed facilities.
- .13 Where existing materials are to be re-used in Work, use special care in removal, handling, storage and re-installation to assure proper function in completed work.

3.3 PROCESSING

- .1 Designate location for processing of materials which eliminates double handling and provides adequate space to maintain efficient material flow.
- .2 Keep processing area clean and free of excess debris.
- .3 Supply separate, marked disposal bins for categories of waste material.
- .4 Separate processed materials into organized piles for stockpiling. Provide collection area for materials.

3.4 STOCKPILING

- .1 Label stockpiles, indicating material type and quantity.
- .2 Designate appropriate security resources/measures to prevent vandalism, damage and theft.
- .3 Locate stockpiled materials convenient for use in new construction. Eliminate double handling wherever possible.
- .4 Stockpile materials designated for alternate disposal in location which facilitates removal from site and examination by potential end markets, and which does not impede disassembly, processing, or hauling procedures.

3.5 REMOVAL FROM SITE

- .1 Transport material designated for alternate disposal in accordance with applicable regulations.
- .2 Dispose of materials not designated for alternate disposal in accordance with applicable regulations.

3.6 CLEANING AND RESTORATION

- .1 Keep site clean and organized throughout deconstruction.
- .2 Upon completion of project, remove debris, trim surfaces and leave work site clean.
- .3 Upon completion of project, reinstate areas including but not limited to parking surfaces, walkways, and light standards affected by Work to condition which existed prior to beginning of Work.

END OF SECTION