

Part 1 General

1.1 SUMMARY

- .1 Section Includes.
 - .1 Methods and procedures for demolishing, salvaging, recycling and removing sitework items designated to be removed in whole or in part, and for backfilling resulting trenches and excavations.
 - .2 Sustainable requirements for construction and verification.
- .2 Related Sections.
 - .1 Section 01 33 00 - Submittal Procedures.
 - .2 Section 01 74 19 - Construction/Demolition Waste Management And Disposal.
 - .3 Section 01 35 43 - Environmental Procedures.
 - .4 Section 01 35 30 - Health and Safety Requirements.
- .3 Measurement Procedures.
 - .1 Payment of Site demolition work will be paid on a lumps sum basis. No measurement shall be made.

1.2 REFERENCES

- .1 Department of Justice Canada (Jus).
 - .1 Canadian Environmental Assessment Act (CEAA), 1995, c. 37.
 - .2 Canadian Environmental Protection Act, 1999 (CEPA), c. 33.
 - .3 Fisheries Act (R.S.C., 1985, c. F-14)
- .2 City of Winnipeg
 - .1 Waterway By-Law no. 5888/92
 - .2 Best Management Practices Handbook for Activities in and Around the City's Waterways and Watercourses. Nov.2005
- .3 Permits: Prior to commencing demolition, submit a copy of the Waterway Construction Permit issued from authorized representative of the City of Winnipeg; Property, Planning and Development department.

1.3 QUALITY ASSURANCE

- .1 Regulatory Requirements: ensure Work is performed in compliance with CEPA, CEAA, and applicable Provincial/Municipal regulations.
- .2 Sustainable Requirements.
 - .1 Construction: in accordance Waterway By-Law no. 5888/92

1.4 DELIVERY, STORAGE AND HANDLING

- .1 Storage and Protection.

- .1 Protect existing items designated to remain. In event of damage to such items, Contractor is to immediately replace or make repairs to approval of Departmental Representative and at the sole cost to contractor.
- .2 Store and protect in accordance with requirements for maximum preservation of material.
- .2 Waste Management and Disposal.
 - .1 Separate waste materials for reuse and recycling in accordance with Section 01 74 19 - Construction/Demolition Waste Management And Disposal.
 - .2 Divert excess materials from landfill when possible, for reuse and recycling.
 - .3 Remove materials that cannot be salvaged for reuse or recycling and dispose of in accordance with applicable codes at licensed facilities.

1.5 SITE CONDITIONS

- .1 Site Environmental Requirements.
 - .1 Perform work in accordance with Section 01 35 43 - Environmental Procedures, City of Winnipeg Waterway By-Law no. 5888/92 and all applicable provincial and federal regulations.
 - .2 Ensure that selective demolition work does not adversely affect adjacent watercourses, groundwater and wildlife, or contribute to excess air and noise pollution.
 - .3 Do not dispose of waste of volatile materials including but not limited to, mineral spirits, oil, petroleum based lubricants, or toxic cleaning solutions into watercourses, storm or sanitary sewers.
 - .1 Ensure proper disposal procedures are maintained throughout the project.
 - .4 Do not pump water containing suspended materials into watercourses, storm or sanitary sewers or onto adjacent properties.
 - .5 Control disposal or runoff of water containing suspended materials or other harmful substances in accordance with local authorities and as directed by Landscape Architect.
 - .6 Protect trees, plants and foliage on site and adjacent properties where indicated.
- .2 Existing Conditions.
 - .1 Contractor to immediately notify Landscape Architect of any unforeseen underground obstacle that may impede demolition or construction process.

1.6 SCHEDULING

- .1 Employ necessary means to meet project time lines without compromising specified minimum rates of material diversion.
 - .1 Notify Departmental Representative in writing when unforeseen delays occur.

Part 2 Products

2.1 EQUIPMENT

- .1 Leave machinery running only while in use, except where extreme temperatures prohibit shutting machinery down.

Part 3 Execution

3.1 PREPARATION

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

3.2 REMOVAL OF HAZARDOUS WASTES

- .1 Remove contaminated or dangerous materials defined by authorities having jurisdiction, relating to environmental protection, from site and dispose of in safe manner to minimize danger at site or during disposal.

3.3 REMOVAL OPERATIONS

- .1 Remove items as indicated.
- .2 Do not disturb items designated to remain in place.
- .3 Removal of Pavements, Curbs and Gutters:
 - .1 Square up adjacent surfaces to remain in place by saw cutting.
 - .2 Protect adjacent joints and load transfer devices.
 - .3 Protect underlying and adjacent granular materials.
- .4 Prevent contamination with base course aggregates, when removing pavement for subsequent incorporation into new paving,
- .5 Remove no trees during demolition.
 - .1 Should tree removal be deemed absolutely necessary, obtain written approval of the Departmental Representative, and Landscape Architect prior to removal of trees.
- .6 Stockpile topsoil for final grading and landscaping.
 - .1 Provide erosion control and seeding if not immediately used.
- .7 Disposal of Material.

- .1 Dispose of materials not designated for salvage or reuse on site at authorized facilities.
- .8 Backfill.
 - .1 Backfill in areas as indicated.
 - .2 Holes and other ground disturbances that may be considered a safety hazard to the public or to workers on site must be backfilled or covered with plywood at the end of each day and as required when the site is not being supervised and restricted by the Contractor. Plywood sheeting must be of sufficient strength or reinforced to resist breakage. All holes must be clearly marked to ensure the hazard is visible in all conditions including but not limited to day, night and snow cover.
- .9 Designate appropriate security resources/measures to prevent vandalism, damage and theft.
- .10 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.

3.4 REMOVAL FROM SITE

- .1 Remove stockpiled material when it interferes with operations of project.
- .2 Remove stockpiles of like materials by alternate disposal option once collection of materials is complete.
- .3 Transport material designated for alternate disposal using approved haulers and in accordance with applicable regulations.
- .4 Dispose of materials not designated for alternate disposal in accordance with applicable regulations.

3.5 RESTORATION

- .1 Restore areas and existing works outside areas of demolition to conditions that existed or better than conditions that existed prior to beginning of Work to the satisfaction of the Departmental Representative.
- .2 Use soil treatments and procedures which are not harmful to health, are not injurious to plants, and do not endanger wildlife, adjacent water courses or ground water.

3.6 CLEANING

- .1 Remove debris, trim surfaces and leave work site clean, upon completion of Work
- .2 Use cleaning solutions and procedures which are not harmful to health, are not injurious to plants, and do not endanger wildlife, adjacent water courses or ground water.

END OF SECTION

Part 1 General

1.1 RELATED REQUIREMENTS

- .1 Structural Specifications
- .1 Section 01 45 00 Quality Control.
- .2 Section 01 73 00 Execution Requirements.
- .3 Section 01 74 11 Cleaning.
- .2 Section 04 05 00 - Common Work Results for Masonry.
- .3 Section 05 50 00 - Metal Fabrications.

1.2 REFERENCES

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

1.3 SITE CONDITIONS

- .1 If material resembling spray or trowel-applied asbestos or other designated substance be encountered, stop work, take preventative measures, and notify Departmental Representative immediately.
 - .1 Proceed only after receipt of written instructions have been received from Departmental Representative.
- .2 Notify Departmental Representative before disrupting building access or services.

Part 2 Products

2.1 NOT USED

- .1 Not used.

Part 3 Execution

3.1 EXAMINATION

- .1 Inspect building 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.
- .4 Disconnect, cap, plug or divert, as required, existing public utilities within the property where they interfere with the execution of the work, in conformity with the requirements of the authorities having jurisdiction. Mark the location of these and previously capped or

plugged services on the site and indicate location (horizontal and vertical) on the record drawings. Support, shore up and maintain pipes and conduits encountered.

- .1 Immediately notify Departmental Representative and utility company concerned in case of damage to any utility or service, designated to remain in place.
- .2 Immediately notify the Departmental Representative should uncharted utility or service be encountered, and await instruction in writing regarding remedial action.

3.2 PREPARATION

- .1 Protection of In-Place Conditions:
 - .1 Prevent movement, settlement, or damage to adjacent structures, utilities and parts of building to remain in place. Provide bracing and shoring required.
 - .2 Keep noise, dust, and inconvenience to occupants to minimum.
 - .3 Protect building systems, services and equipment.
 - .4 Provide temporary dust screens, covers, railings, supports and other protection as required.
 - .5 Do Work in accordance with Section 01 35 29.06 - Health and Safety Requirements.
- .2 Demolition/Removal:
 - .1 Remove items as indicated.
 - .2 Remove parts of existing building to permit new construction.
 - .3 Trim edges of partially demolished building elements to tolerances as defined by Departmental Representative and/or Consultant to suit future use.

3.3 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
 - .1 Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.
- .3 Refer to demolition drawings and specifications for items to be salvaged for reuse.

END OF SECTION