

PART 1 – GENERAL

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| 1.1 <u>RELATED SECTIONS</u> | .1 | Section 013543 - Environmental Procedures |
| | .2 | Section 017421 – Construction/Demolition Waste Management and Disposal |
| | .3 | Section 310099 - Earthworks for Minor Works |
| | .4 | Section 320293 – Arboriculture Work |
| 1.2 <u>BASIS OF PAYMENT</u> | .1 | Removal of debris and plants as indicated on plans and in specifications will be included in the lump sum bid. The lump sum price will include all labour, materials and equipment to do the work. |
| | .2 | Payment for salvage, stockpiling, disposal, excavating / backfilling and restoration will be included in above removal items and in the contract lump sum for items that are not measured for payment, as well as in the unit prices of items for which a measurement for payment is done. |
| 1.3 <u>ADMINISTRATIVE REQUIREMENTS</u> | .1 | Site Meetings. <ul style="list-style-type: none">.1 Convene pre-demolition meeting one week prior to beginning in accordance with Section 013216.06 - Construction Progress Schedule - Critical Path Method (CPM) to:<ul style="list-style-type: none">.1 Confirm project requirements..2 Review installation and substrate conditions..3 Co-ordination with other Contractors..2 Arrange for site visit with Departmental Representative to examine existing site conditions adjacent to demolition work, prior to start of Work..3 Hold project meetings bi-weekly..4 Ensure key personnel attend..5 Reporting Requirements: WMC to complete..6 Departmental Representative will provide written notification of change of meeting schedule established upon contract award 24 hours prior to scheduled meeting. |
| | .2 | Scheduling: meet project time lines without compromising specified minimum rates of material diversion. <ul style="list-style-type: none">.1 Notify Departmental Representative in writing when unforeseen delays occur. |
| 1.4 <u>ACTION AND INFORMATIONAL SUBMITTALS</u> | .1 | Provide submittals in accordance with Section 013300 - Submittal Procedures. |
| | .2 | Submit copy of erosion and sedimentation control plan. |
| 1.5 <u>DELIVERY, STORAGE AND HANDLING</u> | .1 | Store and manage hazardous materials in accordance with Section 013543 - Environmental Procedures. |
| | .2 | Storage and Protection. <ul style="list-style-type: none">.1 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 Departmental Representative.

- .2 Remove and store materials to be salvaged, in manner to prevent damage.
- .3 Store and protect in accordance with requirements for maximum preservation of material.
- .4 Handle salvaged materials as new materials.

1.6 SITE CONDITIONS

- .1 Site Environmental Requirements.
 - .1 Perform work in accordance with Section 013543 - Environmental Procedures.
 - .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 Departmental Representative.
 - .6 Protect trees, plants and foliage on site and adjacent properties where indicated.

1.7 EXISTING CONDITIONS

- .1 If a material designated and listed as dangerous is discovered during construction work, suspend work, take appropriate precautions and immediately inform the Departmental Representative.
 - .1 Do not resume work before receiving written directions.
- .2 Notify the Departmental Representative before impeding access to buildings or cutting access to services.
- .3 The contractor must acquire all information concerning underground pipes. Contractor must take note of all documents describing existing conditions.

1.8 REGULATORY REQUIREMENTS

- .1 Ensure that the work is made in accordance with all relevant provincial and municipal regulations.

1.9 SPECIFIC REQUIREMENTS

- .1 Prior to demolition work, each and every element to be demolished must be first approved by the Departmental Representative.

PART 2 - PRODUCTS

2.1 MATERIAL AND EQUIPMENT

- .1 Equipment and heavy machinery used must to meet or exceed the requirements of all relevant emissions standards.
- .2 Leave machinery running only while in use, except where extreme temperatures prohibit shutting machinery down.

PART 3 - EXECUTION

3.1 PREPARATION

- .1 Protect finishes, appliances, mechanical and electrical installations as well as the adjacent underground utilities.
- .2 Inspect site with Departmental Representative and confirm extent and location of items designated for removal, disposal, alternative disposal, recycling, salvage and items to remain.
- .3 Locate and protect utilities. Preserve active utilities traversing site in operating condition.
- .4 Notify and obtain approval of utility companies before starting demolition.

3.2 PROTECTION

- .1 Perform the work in accordance with current regulations and standards.
- .2 Take all necessary measures to prevent displacement, subsidence or any other damage to pipelines, finishes, facilities, landscaped elements, soil and adjacent work to be conserved. Shore and brace all works that might need to be strengthened. In the event of damage, repair damaged work according to the guidelines set by the Departmental Representative.
- .3 Make sure that demolitions work does not obstruct the flow and evacuation of surface runoff. Preserve active utilities traversing site in operating condition.
- .4 Ensure that selective demolition work does not adversely affect adjacent watercourses, groundwater and wildlife, or contribute to excess air and noise pollution.
- .5 It is prohibited to burn waste and materials on-site and it is strongly discouraged to use this method of waste disposal outside construction site. Ensure proper disposal procedures are maintained throughout the project.
- .6 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.

- .7 Do not pump water containing suspended materials into watercourses, storm or sanitary sewers or onto adjacent properties.
- .8 Control disposal or runoff of water containing suspended materials or other harmful substances in accordance with Departmental Representative.
- .9 Protect trees, plants and foliage on site and adjacent properties where indicated.
- .10 Ensure that no substances or foreign matter contaminates the air outside the limits of construction site by erecting temporary protection enclosures during the execution of the demolition work.
- .11 Cover or wet solids waste to prevent dust and debris from rising into the air. Apply dust control liquid on all temporary access roads.
- .12 Limit, as best as possible, dust and noise produced by demolition work, as well as any inconveniences to local occupants.
- .13 Protect mechanical and electrical installations as well as utility pipes.
- .14 Provide dust screens, tarps, railings, support elements as well as any other protective devices.
- .15 Protect floor coverings that must remain in place, lighting installations and other works of any deterioration. If these elements are damaged, repair or replace immediately free of charge and to the satisfaction of the Departmental Representative.
- .16 In no case may the contractor circulate, store materials or perform work outside the perimeter of work, under the tree protective perimeter and the high water mark.
- .17 The contractor must not damage any existing underground pipes during demolition work.
- .18 Protect trees and vegetation as specified in the current book of specifications following the recommendation set by the Departmental Representative.
- .19 Protect walls, remains and rocky outcrops as described in the current book of specifications and following the recommendations by the Departmental Representative.
- .20 The Contractor must protect all *Juglans cinera* (Butternut) of possible damages, except those indicated to be removed on the plans and in specifications.
- .21 The Contractor must conform to norms and standards to dispose of diseased tree branches and wood.

3.3 REMOVAL OPERATIONS

- .1 Remove items as indicated as indicated on plans and in specification and after obtaining the approbation of the Departmental Representative.
 - .1 Remove geotextile membranes and anti-erosion mulch mats that are apparent and hang without being fixed to the ground by cutting them. Leave geotextile membranes and anti-erosion mulch mats that are anchored to the ground in place.
 - .2 leave horizontal tree trunk in place unless they are unstable and threaten to fall.
 - .3 Remove garbage, metal and plastic pipes that are not anchored to the ground, flags not part of the project.
 - .4 Remove stone locks that are completely above ground or will soon be, that are unstable or threaten to fall. Blocks well set in the ground must remain in place. In areas where it is necessary to install anti-erosion mat or for other consideration, the surface will need to be reshaped and made more uniform. The slope surface will have to be corrected after the removal of the blocks to create a uniform slope. A transition with existing soil will be performed around the block remaining in place to permit anti-erosion mats to stock to the slope without leaving a space between the mat and the slope.
- .2 Do not disturb items designated to remain in place.
- .3 Dispose of trees designated for removal and identified by Departmental Representative.
 - .1 Grind, chip, or shred other vegetation for mulching and composting except with the branches and wood of Ash trees and Butternuts.
- .4 Stockpile topsoil for final grading and landscaping:
 - .1 Provide erosion control and seeding if not immediately used.
- .5 Disposal of Material:
 - .1 Dispose of materials not designated for salvage or reuse at authorized facilities approved in Waste Reduction Workplan.
- .6 Remove debris on the ground without disturbing the ground, as specified in plans and specifications.
- .7 All other existing items that are not shown on plans or mentioned in specifications must be signalled to the Department Representative at the beginning of work. Further indications will then be given to the contractor.
- .8 Remove tree as described in section 320293 – Arboriculture Work following identification on site by the Departmental Representative.

3.4 RESTORATION

- .1 Restore areas and existing works outside areas of demolition to conditions that existed prior to beginning of Work or better.
- .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.

3.5 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 017411 - Cleaning.
 - .1 Leave Work area clean at end of each day.
 - .2 Remove debris, trim surfaces and leave work site clean, upon completion of Work after each phase and step (arboriculture work and planting) and every month after maintenance work
 - .3 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.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 017411 - Cleaning.

3.6 PROTECTION

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

***** END OF SECTION *****