

## **Capital Projects Group**

# **Demolition and Revision Work Specification**

Specification 20 05 35

Revision 0

Date: August 2018

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## Amendment Record Sheet

Amendment in Clause No.	Date of Amendment	Description of Changes

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**1. GENERAL**

**1.1. SCOPE OF WORK**

- 1.1.1. Provide demolition and revision work as required and specified herein.
- 1.1.2. This Section specifies requirements, criteria, methods and execution for mechanical demolition work that are common to one or more mechanical work Sections, and it is intended as a supplement to each Section and is to be read accordingly.

**1.2. RELATED WORKS**

- 1.2.1. Section 20 05 05 - Mechanical Work General Instructions.
- 1.2.2. Section 20 05 10 - Basic Mechanical Materials and Methods.

**1.3. SUBMITTALS**

- 1.3.1. Refer to submittal requirements in Section 20 05 05.
- 1.3.2. Submit with shop drawings submission, detailed drawings identifying scope of work being demolished or revised.
- 1.3.3. Submit documentation to confirm reclaimed refrigerant and other hazardous materials have been properly removed and stored, recycled, or disposed of as applicable.
- 1.3.4. Commissioning Package
  - a) Submit the following in accordance with Sections 20 05 05 and 20 05 40:
    - 1) Commissioning Plan;
    - 2) Commissioning Procedures;
    - 3) Certificate of Readiness;
    - 4) Complete test sheets specified in Section 20 05 40 and attach them to the Certificate of Readiness;
    - 5) Attach Source Quality Control inspection and test results to the Certificate of Readiness.
- 1.3.5. Commissioning Closeout Package
  - a) Submit the following in accordance with Section 20 05 05:
    - 1) Deficiency Report;
    - 2) Commissioning Closeout Report.

## **1.4. QUALITY ASSURANCE**

### **1.4.1. Regulatory Requirements**

- a) Work to comply with applicable local governing authority regulations, bylaws and directives.
- b) Include for required inspections and certificate of approvals of work from local governing authorities.

## **2. PRODUCTS**

### **2.1. NOT USED**

## **3. EXECUTION**

### **3.1. DISCONNECTION AND REMOVAL OF EXISTING MECHANICAL WORK**

- 3.1.1. Where indicated on drawings, disconnect and remove existing mechanical work, including hangers, supports, insulation, etc. Disconnect at point of supply, remove obsolete connecting services and make system safe. Cut back obsolete piping behind finishes and cap water-tight unless otherwise specified.
- 3.1.2. Scope and extent of demolition or revision work is only generally indicated on drawings. Estimate scope, extent and cost of work at site during bidding period site visit(s). Claims for extra costs for demolition work not shown or specified but clearly visible or ascertainable at site during bidding period site visits will not be allowed.
- 3.1.3. If any re-design is required due to discrepancies between mechanical drawings and site conditions, notify Consultant who will issue a Site Instruction. If, in the opinion of Consultant, discrepancies between mechanical drawings and actual site conditions are of a minor nature, required modifications are to be done at no additional cost.
- 3.1.4. Where existing mechanical services extend through, or are in an area to serve items which are to remain, maintain services in operation. Include for rerouting existing services concealed behind existing finishes and which become exposed during renovation work, so as to be concealed behind new or existing finishes.
- 3.1.5. Unless otherwise specified, remove from site and dispose of existing materials which have been removed and are not to be relocated or reused, or identified to be turned over to Metrolinx.

### **3.2. HAZARDOUS WASTE**

- 3.2.1. Be advised that items such as drainage sumps, catch basins, interceptors, and the like may contain unidentified hazardous waste and caution is to be taken when disconnecting and removing these items.

- 3.2.2. If hazardous waste listed in Specification is found, notify Metrolinx and Consultant immediately and await directions.

**3.3. INTERRUPTION TO AND SHUT-DOWN OF MECHANICAL SERVICES AND SYSTEMS**

- 3.3.1. Co-ordinate shut-down and interruption to existing mechanical systems with Metrolinx. Generally, as confirmed with Metrolinx, shut-downs may be performed only between the hours of 01:00 a.m. until 05:00 a.m.
- 3.3.2. Upon award of contract, submit a list of anticipated shut-down times and their maximum duration.
- 3.3.3. Prior to each shut-down or interruption, inform Metrolinx in writing minimum 10 business days in advance of proposed shut-down or interruption and obtain written consent to proceed. Do not shut-down or interrupt any system or service without such written consent.
- 3.3.4. Perform work associated with shut-downs and interruptions as continuous operations to minimize shut-down time and to reinstate systems as soon as possible, and, prior to any shut-down, ensure materials and labour required to complete the work for which shut-down is required are available at site.
- 3.3.5. Pipe freezing may be used to connect new piping to existing piping without draining existing piping. Pipe freeze equipment is to be "NORDIC FREEZE" equipment supplied by Mag Tool Inc. or Rigid Tool Co. RIGID "SuperFreeze" or approved equivalent.

**3.4. DECOMMISSIONING OR ALTERATIONS TO EQUIPMENT CONTAINING HAZARDOUS WASTES**

- 3.4.1. Remove and reclaim refrigerant, glycol and other hazardous waste materials from applicable equipment to be decommissioned and/or altered. Work is to be in accordance with applicable local governing codes and regulations. Do not under any circumstances vent from existing equipment to atmosphere or drain into building drains.
- 3.4.2. Use proper recovery equipment designed specifically to reclaim and recycle specific hazardous waste materials, and use only skilled mechanics to perform reclaim and recycle work.
- 3.4.3. Provide approved, properly sized and sealable containers for reclaimed hazardous waste.
- 3.4.4. Dispose of reclaimed hazardous waste by engaging services of a licensed firm specializing in recycling of reclaimed hazardous waste. Submit copies of license of company performing work. Also submit documentation to confirm hazardous waste has been properly removed from site and recycled or properly disposed.

**3.5. ROOFING WORK**

- 3.5.1. Where roof revisions and/or replacements are part of project, include for disconnecting, lifting, or temporarily removing mechanical equipment on roof as required to permit completion of roofing work, and for re-installing and testing of equipment when roofing work is complete. Coordinate work with roofing contractor.

**END OF SECTION**