

**PART - 1 GENERAL**

**1.1 SUMMARY**

- .1 Section Includes:
  - .1 Labour, Products, equipment and services necessary to complete the work of this Section.
- .2 Related Requirements:
  - .1 Comply with Conditions of the Contract and Division 01 - General Requirements.

**1.2 SECTION INCLUDES**

- .1 This Section of the Work covers the requirements for demolishing, salvaging, relocating and removing wholly or in part the various items designated on the drawings or required to be removed or partially removed for the receipt of the Work of this Contract.
- .2 Selective demolition includes, but is not necessarily limited to:
  - .1 Alteration and renovations to existing building.
  - .2 Cutting and removing of walls, ceilings, floor finishes, etc., in the existing buildings as indicated on drawings.
  - .3 Patching, making good walls, floors and ceilings including painting, as required.
  - .4 Removal of rubbish, debris, demolished fixtures, fitments and items not scheduled to remain Owner's property, resulting from the demolition and preparatory work.
  - .5 Dust Control during the operations of the work of this section.

**1.3 QUALITY ASSURANCE**

- .1 Comply with pertinent codes, regulations and insurance carriers providing coverage for this Work.
- .2 Execute the work in strict accordance with 'The Occupational Health and Safety Act and Regulations for Construction Projects' latest addition. Keep copy of the Act at the place of the Work at all times.
- .3 Carry out demolition work in accordance with CSA S350-M.
- .4 Submit fire safety plan in accordance with requirements of Owner.

**1.4 SUBMITTALS**

- .1 Submit demolition and cutting schedule to Consultant for review. Schedule to show timing and phasing of the Work in the various areas of the existing building. Deviation from schedule will not be permitted without approval.
- .2 Submit drawings to Consultant for review of demolition of structural elements.
  - .1 Make sure drawings bear the seal and signature of a licensed Professional Engineer, registered to practice in the Province of Ontario.
  - .2 Drawings to indicate extent of demolition and method of temporary shoring of existing structure where required.

**1.5 PROTECTION**

- .1 Erect barricades, covered ways, barriers, scaffolding, screens, notice and warning boards and maintain all lights, signals and protection of all kinds for the protection of workmen on the Work, for the protection of property and for the protection of public.
- .2 Use all means necessary to protect existing objects designated to remain and in the event of damage, immediately make all repairs and replacements necessary to the approval of the Consultant and at no additional cost to Owner.
- .3 Provide protection required to enable existing building and equipment to remain in continuous and normal operations, and maintain construction schedule.
- .4 Protect work in the existing building, such as floors, finishes, trim, etc., as completely as possible to hold the replacing of damaged work to a minimum

**PART - 2 PRODUCTS**

**2.1 MATERIALS**

- .1 Temporary braces, tie-rods, clamps, supports and cratings: constructed in accordance with plans prepared by Contractor.

**2.2 TEMPORARY PARTITIONS**

- .1 Erect Temporary Partitions / Dust-Proof Barriers / Hoarding prior to demolition. Adjust and relocate partitions as required for various operations of Work.
- .2 Follow assembly descriptions and hoarding details on drawings and Section 01 00 00.
- .3 Comply with Infection Control Procedures, Section 01 35 33.

**PART - 3 EXECUTION**

**3.1 PREPARATION**

- .1 Notify the Consultant at least seven (7) days prior to commencing of the work.
- .2 The drawings do not purport to show all objects existing on the site. Before commencing the Work, carefully check drawings and verify with the Consultant regarding all objects to be removed and all objects to be preserved.
- .3 Schedule all Work in a careful manner with all necessary consideration for the requirements of Owner, his employees and the public.
- .4 Avoid interference with the use of, and passage to and from, adjacent buildings and facilities.
- .5 Before shutting-down any system verify with the Owner and schedule acceptable shut-down date with minimum 14 days' notice.
- .6 Before starting the operations, arrange with the appropriate trade concerned for the disconnection of all utility services, affecting the work.
- .7 Preserve in operating condition all active utilities to remain.

### 3.2 **DEMOLITION AND PREPARATORY WORK**

- .1 In order to afford the least interference with the efficient operations of the existing building and to keep the risk of fire to a minimum at all times, ensure that demolished materials are continuously removed from the buildings and grounds as they accumulate, that no hazard condition is left during non-working hours and that full measures are taken by sprinkling and other means to keep dust to a minimum and to confine what dust there is within the working area.
- .2 Maintain proper and safe means of fire exit from all zones of the existing building to the approval of the authorities having jurisdiction.
- .3 Confine operation to those parts of the buildings which are to be altered or renovated. Do not damage existing construction beyond that necessary for performance of new work and repair such damage as required.
- .4 Carefully remove in re-usable condition, transport and store on site where directed by Owner and protect against damage all materials and equipment to be salvaged or relocated for reuse in the new work as directed by the Owner.
- .5 Take possession of all other materials arising from the demolition work and remove from the site daily.
- .6 Demolished materials become Contractor's property, unless such materials are identified on Contract Documents to be reused or turned over to Owner.
- .7 Demolish work into sections of practical size for removal without alteration or damage to the existing building remaining in place.
- .8 Cut openings through existing walls, partitions and floors. Establish exact location of steel reinforcing in existing concrete slabs or walls before holes are made. Be responsible for damage to existing steel reinforcing and be liable for structural failure. Make good surfaces disturbed with materials to match existing.
- .9 Cut to accommodate new structural steel members.
- .10 Sawcut floors, walls, ceiling and other elements before demolition is started, to minimize damage. Make cuts with clean, true, smooth edges. New openings required in existing walls and partitions shall be carefully cut and formed to blend into existing work.
- .11 Where items are to be removed from existing structure or surfaces that are to remain in place, remove those items complete with hangers, brackets and other readily removable supports and fastenings:
  - .1 Remove bolts, but not inserts embedded in concrete or masonry.
  - .2 Remove bolt and rivet fastenings from steel structure.
- .12 Join and make good new work to existing in such a manner that the joint is structurally sound and inconspicuous.
- .13 Cuts, breaks and other temporary openings into existing surfaces, which are required for installation or application of new fixtures, fitments, materials or services shall be, at completion of work, patched and/or made good and finished to blend with surrounding finishes. Openings to allow passage of ducts shall be closed tight to perimeters of duct at all locations where fire dampers are required.

- .14 Where fireproofing membranes or coverings to existing structural steel members and open web steel joists are disturbed, restore the fire protection with materials and methods acceptable by the authorities having jurisdiction.
- .15 In areas where work is required to be performed over acoustic ceilings composed of lay-in panels in a supporting grid, carefully remove panels to avoid damage and replace when work is completed. If existing lay-in panels in a room are damaged and cannot be matched with new panels, then replace all the panels in that room with new units to the Consultant's approval at no additional expense to Owner.
- .16 Materials and other equipment not required for re-use shall not be stored or sold from the site. Maintain the existing building in a weather and watertight condition at all times. Maintain security of existing building.
- .17 Upon completion of demolition, leave interior surfaces clean and dust free.

### 3.3 **MAKING GOOD**

- .1 Make good materials and finishes which are damaged or disturbed during the process of additions and reconstruction under the Contract. Where existing work is to be made good, match new work exactly with the old work in material, form, construction and finish unless otherwise noted or specified.
- .2 Preparation for new finishes:
  - .1 Remove existing finishes, including painting.
  - .2 Fill cracks and depressions with suitable filler and finish smooth, as recommended by the manufacturer of the new finishes.
  - .3 Grind protrusions level with substrates and finish smooth.
  - .4 Remove all evidences of existing adhesive, grease, oil, soil and other encrustations of foreign material by washing, scraping and grinding if necessary.
  - .5 Clean and prepare substrates to receive new work.

### 3.4 **CUTTING AND PATCHING**

- .1 Perform cutting, fitting, and patching to complete the Work. Do not cut, drill or sleeve load-bearing members without obtaining written approval for each condition.
- .2 Cut rigid materials using power saw or core drill. Pneumatic or impact tools not allowed.
- .3 Remove and replace defective and non-conforming work.
- .4 Perform work to avoid damage to other work. Prepare proper surfaces to receive patching and finishing.
- .5 Restore work with new products to match existing in accordance with Contract Documents.
- .6 Fit work airtight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.
- .7 At penetration of fire rated wall, ceiling, or floor construction, completely seal voids with fire rated material, full thickness of construction element.

- .8 Refinish surfaces to match adjacent finishes; for continuous surfaces refinish to nearest intersection; for an assembly, refinish entire unit.

END OF SECTION