

Part 1 General

1.1 REFERENCES

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

1.2 SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 – Submittal Procedures.
- .2 Submit 20 days prior to start of demolition and removals Work.
- .3 Where required, submissions to be signed and sealed by a Professional Engineer licensed in the Province of Saskatchewan.
- .4 Shop Drawings
 - .1 Drawings, diagrams or details indicating sequence of disassembly Work, supporting structures, and underpinning.
- .5 Hazardous Materials: Provide description of Hazardous Materials and Notification of Filing with proper authorities prior to beginning of Work as required.
- .6 Demolition plan:
 - .1 Show schedule of selective demolition.
 - .2 Number and location of dumpsters.
 - .3 Anticipated frequency of tipping.
 - .4 Show impacts, interruptions, and delays to building operations.
- .7 Waste reduction: Submit progress reports and audits in accordance with Section 01 74 21 – Construction/Demolition Waste Management and Disposal.

1.3 QUALITY ASSURANCE

- .1 Convene pre-installation meeting one week prior to beginning work of this section to:
 - .1 Verify project requirements.
 - .2 Review installation and substrate conditions.
 - .3 Co-ordination with building sub-trades.
- .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 every month.
 - .1 Ensure key personnel, site supervisor, project manager, subcontractor representatives attend.

1.4 DELIVERY, STORAGE AND HANDLING

- .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.

1.5 SITE CONDITIONS

- .1 Perform operations, machine and equipment movements, deliveries and removals at times that will permit uninterrupted operations in and around structures, including parking, deliveries, and Site access and egress.
- .2 Take over structures to be demolished based on condition on date that Bids close.
- .3 In all circumstances, ensure that demolition work does not adversely affect adjacent water courses groundwater and wildlife, nor contribute to excess air and noise pollution.
- .4 Do not dispose, of waste or volatile materials such as mineral spirits, oil, petroleum based lubricants, or toxic cleaning solutions into watercourses, storm or sanitary sewers. Ensure proper disposal procedures are maintained throughout project.

Part 2 Products

Not used.

Part 3 Execution

3.1 GENERAL

- .1 Products requiring demolition become Contractor's property. Remove Products from Site daily, unless such Products are otherwise specified or indicated on Contract Drawings to be reused or handed over to Departmental Representative.
- .2 Stockpiling of rubble, debris and surplus Products on Site will not be permitted.
- .3 Clean up rubble and debris resulting from Work promptly and dispose at end of day or place in waste disposal bins. Empty bins on regular basis.

3.2 EXAMINATION

- .1 Examine adjacent structures and other installations prior to commencement of demolition and removals Work.

3.3 PREPARATION

- .1 Inspect site 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 electrical and telephone service lines in areas to be demolished. Post warning signs on electrical lines and equipment that remain energized to serve other areas during period of demolition. Disconnect electrical and telephone service lines in demolition areas to requirements of local authority having jurisdiction.
- .5 Erect and maintain dustproof partitions, seal off ducts as required to prevent spread of dust and fumes to other parts of the building. On completion, remove partitions and make good surfaces to match adjacent surfaces.

3.4 EXISTING CONDITIONS

- .1 Prior to start of demolition work, remove from site materials defined as contaminated or hazardous by authorities having jurisdiction, and dispose at designated disposal facilities.

3.5 PROTECTION

- .1 Prevent movement of or damage to adjacent structures, services and parts of existing structure to remain. Supply and install bracing and shoring as required. Make good damage caused by demolition, to acceptance of Departmental Representative.
- .2 Protect adjacent structures and property against damage that might occur from falling debris or other causes. Repair or replace damage caused from Work of this Section to acceptance of Departmental Representative.
- .3 Do not interfere with use of adjacent structures and Work areas. Maintain free, safe passage to and from adjacent structures and Work areas.
- .4 Take precautions to support affected structures. If safety of structure being demolished, adjacent structures or services are endangered, cease demolition operations and take necessary action to support endangered item. Immediately inform Departmental Representative. Do not resume demolition until reasons for endangering have been determined and corrected and action taken to prevent further endangering.
- .5 If movement or settlement occurs, install additional bracing and shoring as necessary and make good any damage to acceptance of Departmental Representative.
- .6 Prevent debris from blocking surface drainage, mechanical, and electrical systems that are required to remain in operation.
- .7 Pay particular attention to prevention of fire and elimination of fire hazards that would endanger Work or adjacent structures and premises.

- .8 Close off access to areas where demolition is proceeding by barricades and post warning signs.
- .9 Where required, supply, install and maintain barricades, guards, railings, lights, warning signs, security and other safety measures, and fully protect persons and property.
- .10 Do not proceed with demolition work when weather conditions constitute a hazard to workers and site.
- .11 Dust/Weather Protection:
 - .1 Prior to demolition Work proceeding in existing structures, temporarily enclose Work areas, supply and install dustproof partitions. Design partitions to prevent dust and dirt infiltration into adjoining areas.
 - .2 Prevent dust, dirt and material caused by demolition operations from entering operational areas.
 - .3 Adjust and relocate partitions as required for various operations of Work.
 - .4 Upon completion of Work, remove and dispose of partitions from Site.

3.6 DEMOLITION

- .1 Carry out demolition in accordance with the requirements of CSA S350.
- .2 Perform demolition with extreme care. Confine effects of demolition to those parts that are to be demolished.
- .3 Perform Work and prevent inconvenience to persons outside the demolition area.
- .4 Demolish parts of structure to permit construction of addition as indicated.
- .5 Perform Work to minimize dusting.
- .6 Do not sell or burn materials on Site.
- .7 Remove existing equipment, services, and obstacles where required for refinishing or making good of existing surfaces, and replace as Work progresses.
- .8 Sprinkle exterior debris with water to prevent dust. Do not cause flooding, contaminated runoff or icing. Do not allow waste material, rubbish, and windblown debris to reach and contaminate adjacent properties.
- .9 Lower waste materials in a controlled manner; do not drop or throw materials from heights.
- .10 At end of day's Work, leave Work in safe condition with no part in danger of toppling or falling.
- .11 Drainage and Sewer System Protection:
 - .1 Ensure that no dust, debris, nor slurry enters drainage and sewer system on Site.
 - .2 Remove and dispose of debris and slurry promptly from Site.

3.7 REMOVAL OPERATIONS

- .1 Except where otherwise specified, all materials indicated or specified to be permanently removed from the Place of the Work shall become Contractor's

property. Maximize salvage and recycling of such materials, consistent with proper economy and expeditious performance of the Work.

- .2 Remove items as indicated.
- .3 Do not disturb items designated to remain in place.
- .4 Removal from site: Interim removal of stockpiled material will be required by Departmental Representative, if material is deemed to interfere with operations.

3.8 RESTORATION

- .1 Restore areas and existing works outside areas of demolition to match conditions of adjacent, undisturbed areas.

3.9 CLEAN UP

- .1 Upon completion of work, remove debris, trim surfaces, and leave work site clean.
- .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