

PART 1 - GENERAL

1.1 GENERAL REQUIREMENTS

- .1 Comply with all Division 1 requirements.

1.2 RELATED SECTIONS

- .1 Section 01 35 29 – Health and Safety Requirements.
- .2 Section 01 50 00 – Temporary Facilities.
- .3 Section 01 74 21 – Construction / Demolition Waste Management and Disposal.

1.3 REFERENCES

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

1.4 SUBMITTALS

- .1 Submit shop drawings in accordance with Sections 01 33 00 - Submittal Procedures.
- .2 Submit schedule showing Phasing of the Work and sequence of demolition work. Comply with requirements described in Section 01 14 10 – Scheduling and Management of Work and with Phasing Plan shown on Drawings.
- .3 Prior to beginning of Work on site submit detailed Waste Reduction Workplan in accordance with Section 01 74 21 – Construction / Demolition Waste Management and Disposal and indicate:
 - .1 Descriptions of and anticipated quantities in percentages of materials to be salvaged reused, recycled and landfilled.
 - .2 Schedule of selective demolition.
 - .3 Number and location of dumpsters.
 - .4 Anticipated frequency of tipping.
 - .5 Name and address of waste facilities.
- .4 Before proceeding with demolition of load bearing walls or portions thereof, and where required by authority having jurisdiction, submit for review by Departmental Representative shoring and underpinning drawings prepared by qualified professional engineer registered or licensed in the Province of Nova Scotia showing proposed method.

1.5 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate waste materials for recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

1.6 ENVIRONMENTAL REQUIREMENTS

- .1 Perform demolition work in accordance with requirements of Section 01 35 43 – Environmental Procedures.
- .2 Do not dispose of waste or volatile materials in watercourses, storm or sanitary sewers.
- .3 Do not pump water with suspended materials into watercourses, storm or sanitary sewers.
- .4 Protect trees and plants on site and adjacent properties.
- .5 Cover or wet down dry materials and waste to prevent blowing dust and debris. Control dust on site and from blowing onto adjacent streets and roads.

1.7 SITE CONDITIONS

- .1 Existing conditions:
 - .1 Should material resembling spray or trowel-applied asbestos or other designated substance be encountered, stop work, take preventative measures, and notify Departmental Representative immediately.
 - .2 Do not proceed until written instructions have been received from Departmental Representative.
- .2 Items to be removed and re-installed:
 - .1 Carefully remove all items noted on drawings to be removed and re-installed.
 - .2 Store items which are not being immediately re-installed in secure, clean location to prevent any damage or loss until such time as those items are able to be re-instated in the work.
 - .3 Items to be removed and re-installed, but not limited to, include:
 - .1 Security cameras: to be removed and temporarily reinstalled on temporary mounting brackets affixed to louvres during removal of existing cladding. Following installation of new cladding, security cameras will be reinstalled in original locations.
 - .2 Building signage and associated lighting.
 - .3 Roof access ladders.
 - .4 Roof safety railing system: to be removed, reinstalled and re-certified by manufacturer once roof work in that area is complete.
 - .5 Snow/ice guards on barrel vault above loading dock area.
 - .6 Hose bibbs, electrical outlets and other existing wall mounted devices and fittings.
- .3 Items to be protected during demolition work:
 - .1 Protect items to remain during demolition work so as to maintain free from damage.

1.7 SITE CONTIONS (continued)

- .3 (continued)
- .2 Items to be protected, but not limited to, include:
 - .1 Chain-link fence enclosure at fuel storage tank area.
 - .2 Water shut off valve.
 - .3 Gas meter.
 - .4 Skylights.
 - .5 Existing doors, windows, glazing and louvres.
 - .6 Roof-top mechanical equipment and connections.
 - .7 Exhaust stacks on roof and at barrel vault roof.
 - .8 Loading dock equipment and bollards.
 - .9 Building and site lighting.
 - .10 Roof anchors: to be re-certified by ProTek Roof Anchors Inc., Dartmouth, Nova Scotia (tel: 902-444-5123) upon completion of roofing work.
- .4 Prevent movement, settlement or damage of structures, services, walks, paving, trees, and grades. Provide bracing and shoring as required during the demolition work. Repair damage caused by demolition work as directed by Departmental Representative.
- .5 Support affected structures and if safety of structure appears to be endangered take immediate preventative measures. Cease operations and immediately notify Departmental Representative.

PART 2 - PRODUCTS

2.1 NOT USED

PART 3 - EXECUTION

3.1 PREPARATION

- .1 Verification of existing conditions: Inspect building 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, 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.

3.1 PREPARATION (continued)

- .4 (continued)
 - .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 Departmental Representative should uncharted utility or service be encountered, and await instruction in writing regarding remedial action.
- .5 Re-route electrical, telephone, communications and other service lines entering the building in areas affected by demolition work. Maintain building services at all times.
- .6 Provide measures during demolition work to prevent airborne dust and debris entering into the building mechanical systems.

3.2 PROTECTION

- .1 Prevent damage to existing furnishings, equipment, fittings and/or finishes to remain. Immediately report any damage caused by demolition work to Departmental Representative. Make good any damage caused.
- .2 Protect existing items designated to remain and items designated for salvage and re-instatement in the Work. In event of any damage to such items, immediately advise Departmental Representative and replace or make repairs to acceptance of Departmental Representative at no additional cost to the Contract.
- .3 Prevent movement, settlement, or damage to adjacent structures, utilities, and parts of building to remain in place. Provide bracing and shoring required.
- .4 Keep noise, dust, and inconvenience to occupants to minimum. Comply with requirements described in Section 01 14 10 – Scheduling and Management of Work.
- .5 Protect building mechanical and electrical systems, building services and equipment.
- .6 Provide weather tight closures at all exterior envelope openings. Provide in accordance with Section 01 50 00 – Temporary Facilities.
- .7 Provide temporary dust screens, covers, barriers, guards, railings, supports and other protection in accordance with Section 01 50 00 – Temporary Facilities.
- .8 Do Work in accordance with Section 01 35 29 - Health and Safety.

3.3 SITE REMOVALS

- .1 Remove items as indicated.
- .2 Removal of Pavements, Curbs and Gutters:
 - .1 Square up adjacent surfaces to remain in place by saw cutting or other method approved by Departmental Representative.
 - .2 Protect adjacent joints and load transfer devices.
 - .3 Protect underlying and adjacent granular materials.
- .3 Rebuilding Timber Mowing Strip around building perimeters:
 - .1 Maintain present dimensions of mowing strip as shown on drawings.
 - .2 Remove existing continuous timber curb and replace with new pressure-treated timber curb as shown on drawings. See requirements of Section 31 00 99 – Earthworks for Minor Works.
 - .3 Remove and salvage existing gravel paving. Install new gravel sub-base and filter fabric. Place and level salvaged gravel over filter fabric and install additional new gravel as required to match finish grade levels.
 - .4 Make good boundary between timber dividers and adjacent grass.
- .4 Removals at Current Dumpster location:
 - .1 Remove concrete curb, sidewalk, small tree and sodded area at current dumpster location as shown on drawings.
 - .2 Provide new concrete pad for dumpster as indicated on drawings.

3.4 DEMOLITION

- .1 Remove parts of existing building wall and barrel vault cladding, roof assemblies, selected interior areas, site areas, structural items, mechanical and electrical equipment, fitments and fixtures and all other items indicated on drawings to permit new construction.
- .2 Throughout course of demolition work, employ workmanship procedures to minimize damage to materials to remain.
- .3 Employ workers and subcontractors trained to carry out work in accordance with appropriate demolition techniques.
- .4 Project Supervisor with previous demolition experience to be present on site during demolition period.
- .5 Demolish in accordance with CSA S350 and other applicable safety standards.
- .6 Systematically remove portions of the exterior wall and barrel vault cladding, roof assemblies, and selected interior areas, site areas, structural items, mechanical and electrical equipment, fitments and fixtures and all other items as indicated on drawings.

3.4 **DEMOLITION** (continued)

- .7 Carefully maintain and protect existing windows and louvres to remain against any damage. Provide temporary protection at windows and temporary closures over louvres to prevent demolition dust and debris from entering the mechanical system.
- .8 Maintain building security cameras operational during demolition work.
- .9 Carefully maintain existing doors and frames to remain where demolition work is being carried out. Provide protection for glazing in doors and entrance framing. Ensure all exit doors have overhead hoarding protection and remain operational with unobstructed egress route for occupants during demolition and new construction period.
- .10 Remove wall and barrel vault roof cladding in sequence, starting from highest levels and proceeding down to grade. Transfer removed materials from heights to ground level. Follow appropriate safety measures.
- .11 Carefully remove and storage existing items to be salvaged and re-installed in a manner to prevent damage and ensure proper function when re-installed in completed work.
 - .1 Store salvaged items in secure location approved by Departmental Representative. Protect from all damage.
 - .2 Carefully re-install salvaged items in locations as shown on drawings.
- .12 Sort demolished materials into appropriate piles for disposal and for recycling.

3.5 **DISPOSAL**

- .1 Dispose of removed materials, to appropriate recycling facilities except where specified otherwise, in accordance with authority having jurisdiction.

END OF SECTION