

PART 1 - GENERAL

1.1 SUBMITTALS

- .1 Submittals in accordance with Section 01 33 00 - Submittal Procedures.

1.2 QUALITY ASSURANCE

- .1 Quality Assurance in accordance with Section 01 45 00 – Testing and Quality Control.
- .2 Health and Safety.
 - .1 Do construction occupational health and safety in accordance with Section 01 35 29 - Health and Safety Requirements.

1.3 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
- .2 Divert excess materials from site to an approved disposal facility.

1.4 SUBMITTALS

- .1 Submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 The Contractor is responsible for fulfillment of reporting requirements.
- .3 Prior to beginning of Work on site submit detailed MSSP 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 haulers, waste facilities, and waste receiving organizations.
- .4 Submit copies of certified weigh bills and receipts from authorized disposal sites and reuse and recycling facilities for material removed from site on a weekly basis to Departmental Representative.
 - .1 Written authorization from Departmental Representative is required to

deviate from haulers, facilities and receiving organizations listed in MSSP.

- .5 Where required by authorities having jurisdiction, submit for approval drawings, diagrams or details showing sequence of demolition work and supporting structures and underpinning, along with proposed equipment types.
- .6 Submit above drawings stamped and signed by qualified professional engineer registered or licensed in Province of Newfoundland and Labrador, Canada.

1.5 DELIVERY STORAGE AND HANDLING

- .1 Storage and Protection.
 - .1 Protect in accordance with Section 31 23 33.01 - Excavating, Trenching and Backfilling.
 - .2 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 PWGSC.
 - .3 Remove and store materials to be salvaged, in a manner to prevent damage.
 - .4 Store and protect in accordance with requirements for maximum preservation of material.
 - .5 Handle salvaged materials as new materials.

1.6 ENVIRONMENTAL PROTECTION

- .1 Perform work in accordance with Section 01 35 43 - Environmental Procedures.
- .2 Develop and implement an erosion and sedimentation control plan in accordance with Section 01 35 21 - LEED 2009 Requirements and 01 35 43 - Environmental Procedures.

1.7 EXISTING CONIDITIONS

- .1 Remove contaminated or hazardous materials as defined by authorities having jurisdiction or as directed by Departmental Representative from site, prior to start of site demolition Work. Dispose at an approved disposal facility in safe manner and in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

1.8 SCHEDULING

- .1 Adhere to project schedule.
 - .1 Notify Departmental Representative in writing in the event of unforeseen delays.
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PART 2 - PRODUCTS

2.1 EQUIPMENT

- .1 Equipment and heavy machinery:
 - .1 On-road vehicles to meet applicable emission requirements as prescribed in CEPA-SOR/2003-2, On-Road Vehicle and Engine Emission Regulations.
 - .2 Off-road vehicles to meet applicable emission requirements as prescribed in EPA CFR 86.098-10 and EPA CFR 86.098-11.
- .2 Leave machinery running only while in use, except where extreme temperatures prohibit shutting machinery down. This shall not result in additional costs to PWGSC.
- .3 Equipment is not to be left running without an operator or person in charge present.
- .4 Departmental Representative will order poor working equipment off site if deemed not meeting emission requirements and/or is in poor condition or leaking. Contractor to replace with good working equipment at no cost to PWGSC.

PART 3 - EXECUTION

3.1 PREPARATION

- .1 Inspect site with Departmental Representative and Consultant and verify extent and location of items designated for removal, disposal, alternative disposal, recycling, salvage and items to remain.
 - .2 Locate and protect existing utilities. Preserve and protect active utilities traversing site in good operating condition.
 - .3 Notify and obtain approval of authorities having jurisdiction before starting demolition.
 - .4 Obtain all necessary permits/certificates including clearance to dig permit.
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3.2 REMOVAL OPERATIONS

- .1 Removal of sanitary and storm sewer, water distribution and steam infrastructure:
 - .1 In the event that staining or odours are encountered during excavation, stop work and notify Departmental Representative. Dispose of soil as directed by the Departmental Representative.
 - .2 Disconnect pipes to remain from pipe to be removed where required and install approved caps prior to undertaking removal of any other associated infrastructure.
 - .3 Remove mains and laterals to extents shown on drawings.
 - .4 Removed items shall be disposed of off the property at an approved facility.
- .2 Do not disturb items designated to remain in place.
- .3 Prevent contamination with base course aggregates, when removing asphalt pavement.
- .4 Excavate at least 300 mm below pipe invert, when removing pipes under existing or future pavement area.
- .5 Disposal of Material.
 - .1 Dispose of materials in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
- .6 Backfill.
 - .1 Backfill in areas as indicated and in accordance with Section 31 23 33.01 - Excavating, Trenching and Backfilling.

3.3 CONTAMINATED SOIL MANAGEMENT

- .1 Contractor should be aware that there will be the possibility of encountering unidentified impacted (contaminated) soil across CCG Southside Base St. John's resulting from historical activities:
 - .1 The Contractor shall have a contingency plan in place prior to site activities that shall incorporate potential situations with on-site contamination. If the contamination appears to be an immediate threat to health and safety, immediate action by the Contractor will be required.
 - .2 Appropriate measures shall be taken to ensure any encountered contamination on-site to prevent migration of contaminants into clean soil, groundwater and surface water as directed by the Departmental Representative.
 - .3 All persons working on the project must be aware of the potential for impacted soil and appropriate handling procedures and proper personal

protective equipment (PPE).

- .2 The Contractor shall perform the complete set of activities for soil management in conformity with environmental procedures and provincial policies and regulations:
 - .1 Soil management activities shall include the identification, physic-chemical characterization and designation of contaminated soil. Also involves extend and depth of the excavation and the identification of soil temporarily stored or that must not be disturbed:
 - .2 The Contractor shall develop an Impacted Soil Management Plan prior to work activities. The plan will be provided to the Project Manager, or delegate, for review.
 - .3 The Impacted Soil Management will address known soil contamination at the project sites and describe the distribution of contaminants, identify methods and procedures for the management of soils onsite and approved locations for offsite soil disposal.
- .3 Transportation of impacted soil to approved offsite locations shall be in accordance with applicable guidelines and regulations for offsite soil disposal, and loads will be secured and covered to prevent release/dispersion of material.

3.4 STOCKPILING

- .1 Label stockpiles, indicating material type and quantity.
- .2 Designate appropriate security resources/measures to prevent vandalism, damage and theft.
- .3 Locate stockpiled materials convenient for use in backfilling, landscaping and grading to eliminate double handling wherever possible.
- .4 Contractor shall implement on-site control measures to minimize potential environmental impacts for contaminated soil:
 - .1 Contractor must provide, maintain and operate storage/stockpiling areas as required and to the approval of the Departmental Representative. The objective is to temporarily store excavated soils so that testing can be performed to confirm disposal requirements.
 - .2 Contractor must install liner (minimum 6 mil Polyethylene underlay material) below all proposed stockpile locations to prevent contact between potentially contaminated stockpile material and clean ground surface. Stockpiles are to be covered with 6 mil poly with overlapping seams (min 1 meter) and extending a minimum 1-3 beyond the base of the pile. Must include anchoring system to prevent the tarp from being blown off the pile or becoming dislodged.

- .5 Stockpile locations to be cleaned up so that no visible signs of material that was in the stockpiles is present.

3.5 REMOVAL FROM SITE

- .1 Prior to commencing work, the Contractor shall provide to the Departmental Representative for approval, a plan identifying designated traffic routes for construction vehicles on base for each phase of work to be carried out under this contract.
- .2 Remove stockpiles of source-separated materials from property once collection of materials is complete.
- .3 Transport material designated for alternate disposal using approved haulers, facilities and receiving organizations listed in Waste Reduction Workplan (WRW) and in accordance with applicable regulations.
 - .1 Written authorization from Departmental Representative is required to deviate from haulers, facilities or receiving organizations listed in WRW.
- .4 Dispose of materials not designated for alternate disposal in accordance with applicable regulations.
 - .1 Disposal Facilities: approved and listed in WRW.
 - .2 Written authorization from Departmental Representative is required to deviate from disposal facilities listed in WRW.
- .5 Ensure use of hauling equipment that meets Newfoundland and Labrador Department of Transportation and Works requirements, no depositing of contents on roadways, and loads to be secured and tarped.
- .6 Care must be taken to ensure proper impacted soil disposal requirements are met as well as the health and safety of workers and neighboring areas are met.

3.6 RESTORATION

- .1 Restore areas and existing works outside areas of demolition and areas disturbed by Work of the Contract as indicated; otherwise, original conditions shall be reinstated.
 - .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.
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3.7 CLEANING

- .1 Remove debris and leave work site clean, upon completion of Contract.