

PART 1 - GENERAL

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| <u>1.1 Precedence</u> | .1 | For Federal Government projects, Division 1 Sections take precedence over technical specification sections in other Divisions of this Project Manual. |
| <u>1.2 Related Sections</u> | .1 | Section 01 35 45 - Environmental Protection Refueling Vehicles. |
| <u>1.3 Fires</u> | .1 | Fires and burning of rubbish on site not permitted. |
| <u>1.4 Disposal of Wastes</u> | .1 | Do not bury rubbish and waste materials on site. |
| | .2 | Do not dispose of waste or volatile materials, such as mineral spirits, oil or paint thinner into waterways, storm or sanitary sewers. |
| | .3 | Dispose of uncontaminated construction/demolition material which cannot be recycled or reused, at an approved construction and debris disposal site. |
| <u>1.5 Site Clearing and Plant Protection</u> | .1 | Protect trees and plants on site and adjacent properties. |
| | .2 | Timber and vegetation shall not be cleared unless approved by Departmental Representative. |
| | .3 | Protect roots of trees to dripline during excavation and site grading to prevent disturbance or damage. Avoid unnecessary traffic, dumping and storage of materials over root zones. |
| | .4 | Minimize stripping of topsoil and vegetation. |
| | .5 | Restrict vegetation removal to areas indicated or designated by Departmental Representative. |
| | .6 | No roadside vegetation clearing will be permitted during the annual songbird nesting period of June and July. |
| | .7 | Whenever possible, organic debris removed during grading operations should be stored for use during site restoration. Such stockpiles should be located well away from any stream or water body and should be covered with coarse material or tarps to minimize wind and water erosion. |
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- .8 All cleared trees and timber shall become the property of the Contractor, and are to be disposed of at an approved disposal site as agreed upon with the Departmental Representative.
- .9 All cut shrub vegetation and underbrush shall be chipped and evenly dispersed on-site or dragged from sight into the adjacent forest edge. No burning of any vegetation or debris will be permitted within the park boundaries.

1.6 Work Adjacent
to Waterways

- .1 Do not operate construction equipment in waterways.
- .2 Do not use waterway beds for borrow material without Departmental Representative's approval.
- .3 Do not dump excavated fill, waste material or debris in waterways.
- .4 Design and construct temporary crossings to minimize erosion to waterways.
- .5 Avoid indicated spawning beds when constructing temporary crossings of waterways.
- .6 Temporary diversion ditches, approved by the Departmental Representative, are to be plastic lined.
- .7 Temporary storage sites for debris generated from clearing operations should be deposited away from watercourses and should be surrounded by a natural vegetative buffer.

1.7 Pollution Control

- .1 Maintain temporary erosion and pollution control features installed under this contract.
- .2 Control emissions from equipment and plant to meet the emission requirements of local authorities.

1.8 General
Requirements

- .1 Work under this contract is to be carried out in a National Park and environmental protection must be given a high priority by all staff involved with the work.
- .2 An Environmental Briefing will be held prior to work commencing at the site, which will outline

environmental factors to be considered during the work. It is mandatory that all current staff of the Contractor attend this meeting with the Departmental Representative and Environmental Protection Officer (EPO). The Departmental Representative will coordinate this meeting.

1.9 Site Set-up
and Use

- .1 All site activities related to construction are to be confined within the defined project boundaries.
- .2 Work sites will be equipped with appropriate and properly maintained sanitary facilities.
- .3 Garbage must be collected and removed daily from the work site. All material must be removed, transported and disposed of in accordance with existing provincial - municipal and Park solid waste disposal guidelines and/or regulations.
- .4 Littering is prohibited.
- .5 Temporary storage, parking areas, and turn-a-round facilities for contractor-related equipment and vehicles will be limited to those areas agreed to and designated by the Departmental Representative.

1.10 Environmental
Protection Plan

- .1 The Contractor is required to submit a plan showing all pollution control measures that will be used to fulfill the requirements of the Environmental Protection Section. This plan will be reviewed by the Departmental Representative and the Environmental Protection Officer prior to commencement of any work. Any deviation from this plan will require further approval by the Departmental Representative. The protection plan shall be submitted prior to the pre-construction meeting.
 - .2 The Environmental Plan will outline how the Contractor will address the environmental protection requirements, including removal and installation of culverts, and ensure pollution created by the construction is controlled. It will show sufficient detail on products to be used and physical placement on site to determine effectiveness of these items.
 - .3 The plan must cover all activities within the limits of all construction, laydown and traffic diversion areas if required.
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1.11 Environmental
Performance

- .1 The Contractor is required to follow the Canadian Environmental Protection Act.
- .2 The Contractor is held responsible to ensure that all necessary permits related to Environmental Protection have been obtained and that necessary documentation is available on-site.

1.12 Vehicular
Movements

- .1 Restrict movement of vehicles and equipment to existing disturbed areas (access roads, borrow pits disposal areas and right-of-ways).

1.13 Storage and
Handling of Fuels
And Dangerous Fluids

- .1 Locate fuel storage facility outside Park and a minimum of 100 m from any water body in an area approved by Departmental Representative and construct impermeable dykes so that any spillage is contained.
- .2 Fueling of vehicles or equipment will not be permitted within 100 m of any water body.
- .3 Maintenance of vehicles and equipment will be permitted only in designated areas as directed by the Departmental Representative.
- .4 Exercise care in handling of fuels or dangerous materials to minimize potential for spills. Report immediately any spills to Departmental Representative. Contractor is responsible for responding immediately to any spill to minimize environmental damage and for clean-up, repair or rehabilitation resulting from any spills to the satisfaction of the Departmental Representative.
- .5 Supply and maintain on site emergency response material to contain spills and minimize environmental damage, i.e. absorbent material, to the approval of Departmental Representative. Disposal of all contaminated material shall be off-site at an approved facility.
- .6 Dangerous goods, whose release into the environment could cause adverse effect, should be stored and handled in a manner which gives due regard for workers and public safety, and for the protection of the environment.
- .7 No material toxic to fish or any aquatic life shall

be permitted to enter any stream, river, or lake. This shall include, but not be limited to lubricants, fuels, testing fluids, insecticides, detergents, herbicides, cement, lime or concrete.

- .8 The management of fuels, lubricants and chemicals must meet with the requirements of the Newfoundland & Labrador Department of Environment & Conservation and all other appropriate provincial and federal regulations.
- .9 Fuel storage containers must be accompanied by impermeable structures that would provide containment of 125% of the container capacity in the event of a leak or spill.
- .10 All refueling and lubricating operations should employ protection measures such as drip pans, to reduce the potential for escape of petroleum products to the environment.
- .11 The Departmental Representative and the Park's Environmental Protection Officer (EPO) must be immediately contacted after a spill of fuel or lubricant, and after any amount of other chemical products has escaped.
- .12 Storage of any fuel has to occur only in previously approved locations, and with Park consent. The Contractor must submit plans for fuel management and a Spill Contingency Plan seven days prior to the start of the Work. The Contractor is expected to be prepared to effect the containment and cleanup of all spills related to the Work.
- .13 Storage of hazardous material, including explosives, shall not be permitted, except for quantities which shall normally be expected to be utilized in a day of Work.

1.14 Erosion and
Sediment Control

- .1 Appropriate preventative controls should be in place at all times during construction to prevent undue erosion and sedimentation. The Contractor is required to provide to the Departmental Representative for approval ten (10) working days before start-up an erosion and sedimentation control plan, as part of the Environmental Protection Plan. The plan shall

incorporate all necessary silt fences, silt traps, plastic lined trenches and ditches as approved by the Departmental Representative.

- .2 The Contractor shall install and maintain all sedimentation and erosion control features for the duration of the project, in accordance with the approved plan. The Contractor shall remove all sedimentation and erosion control upon completion of the work and when requested by the Departmental Representative.
- .3 Sediment fences and erosion control structures shall be constructed in roadside ditches or at culvert inlets prior to any excavation as directed by Departmental Representative.
- .4 To minimize run-off, work on slopes which may affect water body will be curtailed during periods of heavy rainfall, as directed by the Departmental Representative.
- .5 Prior to carrying out work, check long range weather forecast to ensure that there is adequate time before forecast of heavy rain storms to stabilize the work. Provide details of stabilization plan to Departmental Representative for review.
- .6 Maintain a stockpile of appropriate erosion and environmental protection materials (e.g. silt fences, straw bales, wood chips, clean rock fill and aggregate base course) on site at all times.
- .7 Install additional erosion control measures as required by site conditions to prevent sediment from entering drainage courses.
- .8 Inspect erosion and sediment control measures on a daily basis and maintain as necessary.

1.15 Fisheries
Regulations

- .1 Adhere to all conditions stipulated by Federal Department of Fisheries and Oceans in accordance with the Federal Fisheries Act.
- .2 Contractor is required to adhere to all mitigations

stipulated in the Parks Canada Environmental Assessment documents for this project.

1.16 Relics and Antiquities

- .1 Relics and antiquities and items of historical or scientific interest found on site, shall remain property of Canada. Protect such articles and request direction from Departmental Representative.
- .2 Give immediate notice to Departmental Representative if evidence of archaeological finds are encountered during construction and await his written instructions before proceeding with work in this area.

1.17 Treated Wood

- .1 Workers shall be made aware of the possible health risks associated with exposure to CCA treated timber as well as the recommended safe practices for handling such materials.
- .2 Disposal of treated wood wastes including saw-dust must be outside of the site, and in accordance with all applicable Provincial and Municipal regulations. Similar attention must be given to disposal of any replaced treated guiderail posts which must also be removed from the park for disposal.

1.18 Environmental Incident or Emergency

- .1 In the event of an environmental incident or emergency such as:
 - .1 Chemical spill or petroleum spill;
 - .2 Poisonous or caustic gas emission;
 - .3 Hazardous material spill;
 - .4 Sewage spill;
 - .5 Contaminated water into waterways.
 - .6 The Contractor or his employees shall immediately:
 - .1 Notify the Contractor's job superintendent.
 - .2 Call the local emergency services and give type of emergency.
 - .3 Notify the Departmental Representative and the Park's Environmental Protection Officer (EPO).
- .2 The Contractor is to submit to Departmental Representative a copy of its Environmental/Spill Response Plan for review.

- 1.19 Site
Decommissioning
- .1 Unless prior permission from the Departmental Representative is obtained, all contractor equipment, facilities and materials must be removed from the Park at the finish of each work phase, or if work is suspended due to weather or other circumstances, upon the suspension of work activities.
 - .2 All work sites must be returned to a neat and tidy condition upon site abandonment.