

PART 1 - GENERAL

- 1.1 Description of Work .1 The work will be carried out on the Shoal Cove Brook Bridge approximately 23km North of the South entrance of Gros Morne National Park.
- .2 The work of this contract includes the provision of all materials, labour, equipment, and ancillaries, all as necessary for the completion of the work as indicated on the drawings and as described in the specifications and notes. Work on this project consists generally of, but is not limited to, the following:
- .1 Site erosion and sediment control measures, including check dams, silt fencing, hay/straw bales, vegetative stabilization and other measures as required, maintained for the duration of the project and removed following completion.
 - .2 Supply and operation of traffic control and signage for the duration of the project.
 - .3 Cold planning of existing asphalt to depths and widths as specified, complete with transportation, placement and compaction of milled asphalt on existing gravel roads within the park boundaries.
 - .4 Excavation and disposal of existing roadway structure.
 - .5 Removal and replacement of guiderail.
 - .6 Ditching in locations as directed by Departmental Representative.
 - .7 Clearing/grubbing in locations as directed by Departmental Representative.
 - .8 Design, supply, installation, maintenance and removal of cofferdam at foundation excavations.
 - .9 Foundation excavation, including rock excavation as required. Installation of temporary cofferdams and dewatering.
 - .10 Placement of tremie mud slab concrete to level under foundations.
 - .11 Supply and installation of new cast-in-place Rigid Portal Frame, complete with waterproofing membrane, drainage pipes, backfill, headwalls, footings and rip rap aprons as indicated;
 - .12 Hauling, placement and compaction of fill-against-structure materials behind rigid portal frame.
 - .13 Hauling, placement and compaction of Owner-supplied aggregates and granular materials
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for bedding and surround, roadway structure, and shoulder treatment.

.14 Supply and construction of new asphalt pavement, including asphalt gutters and keyed joints at existing pavement.

.15 Supply and installation of steel-beam guiderail.

.16 Pavement markings.

.17 Existing Bridge Removal.

.18 All other labour, materials and work necessary to complete the project to the Departmental Representative's full satisfaction.

.3 All work to be carried out in accordance with applicable federal and provincial regulations for those agencies having jurisdiction for the work. The work is subject to the National Park Act and Regulations, Canadian Environmental Protection Act, Canada Labour Code and the NL Occupational Health and Safety Act and Regulations.

.4 The Contractor is advised that other construction work may be being performed by others at several different locations during the time frame of this contract.

.5 Owner-supplied stockpiles of blasted rock and crushed aggregates, suitable for further processing, are available for use at Contractor's discretion. Stockpiles are located at Rocky Barachois (approx. 7.0km from South of the site). Refer to Section 31 05 17 - Aggregates: General.

.6 Milled material is to be hauled, placed and compacted on Lomond Road, located off Route 431 approximately 15 km from the intersection with Route 430, near the community of Wiltondale, or at other locations as designated by the Departmental Representative.

1.2 Familiarization
With Site

.1 Before submitting a bid, it is recommended that bidders visit the site to review and verify the form, nature and extent of the work, materials needed, the means of access and the temporary facilities required to perform the Work.

.2 The chainage referred to for this contract is

located along the centre line of Route 430, with the South Park Boundary located near the community of Wiltondale as Station 0+000.

- .3 Obtain prior permission from the Parks Canada Asset Manager before carrying out such site inspection.
- .4 Contractors, bidders or those they invite to site are to review specification Section 01 35 29 - Health and Safety Requirements before visiting site. Take all appropriate safety measures for any visit to site, either before or after acceptance of bid.

1.3 Interpretation of Documents

- .1 Supplementary to the Order of Precedence article of the General Conditions of the Contract, the Division 01 sections take precedence over the technical specification sections in other Divisions of the Specification Manual.

1.4 Term Engineer

- .1 Unless specifically stated otherwise, the term Engineer where used in the Specifications and on the Drawings shall mean the Departmental Representative as defined in the General Conditions of the Contract.

1.5 Setting Out Work

- .1 Contractor to carry out all layout.
- .2 Assume full responsibility for and execute complete layout of work to locations, lines and elevations indicated.
- .3 Supply such devices as straight edges and templates required to facilitate Departmental Representative's inspection of work.
- .4 Provide coordinates, elevations and dimensions in the field, as required by the Departmental Representative.

1.6 Measurement For Payment

- .1 Notify Departmental Representative sufficiently in advance of operations to permit required measurements for payment.

1.7 Maintenance of

- .1 Maintain work during construction. Undertake

Work During
Construction

continuous and effective maintenance work day by day, with adequate equipment and forces so that the roadway or structures are continuously kept in a condition satisfactory to Departmental Representative.

1.8 Codes and Standards .1

Perform work in accordance with National Parks Act, Code of Practice of the Department of Labour, as it pertains to the Traffic Control Manual (Department of Transportation & Works) and any other code of federal, provincial or local application provided that in any case of conflict or discrepancy, the more stringent requirements shall apply.

- .2 Materials and workmanship must conform to or exceed applicable standards of Canadian General Standards Board (CGSB), Canadian Standards Association (CSA), American Society for Testing and Materials (ASTM) and other standards organizations.
- .3 Conform to latest revision of any referenced standard as re-affirmed or revised to date of specification. Standards or codes not dated shall be deemed editions in force on date of tender advertisement.

1.9 Work Within
Park Boundaries

- .1 The project is within a national park and it is essential that lands remain as undisturbed as possible. The Contractor will be expected to use standards and methods beyond those for normal construction in order to protect the environment and ensure the aesthetics of the work. Contract limits shall be strictly adhered to and every precaution shall be taken to minimize environmental damage and disruption to vegetation, wildlife habitat, and structures or existing services, both on construction and storage sites.
 - .1 If any damage occurs during construction, the Contractor is responsible to bear the expense to immediately restore such damaged areas to the satisfaction of the Departmental Representative.
 - .2 If Contractor fails to repair damage to the satisfaction of the Departmental Representative, the Departmental Representative may have repairs

completed by others at the Contractor's expense.

.3 The Contractor shall ensure that contracted work meets the standards outlined in the contract specification and drawings.

.4 The Contractor shall ensure that no damage will be done to any existing underground telephone cables.

.5 All sources of aggregate and asphalt cement must be submitted to the Departmental Representative for approval at least two weeks prior to the start of any work.

.6 The Contractor is responsible to follow the Provincial requirements regarding the following:

.1 Pit and Quarry Guidelines

.2 Environmental Construction Practice specifications

.7 The Contractor will make arrangements with authorities or owners of private properties for quarrying and transporting materials and machinery over their properties and be responsible for obtaining and paying of fees.

1.10 Documents
Required

- .1 Maintain at job site, one copy each of following:
- .1 Contract drawings.
 - .2 Specifications.
 - .3 Addenda.
 - .4 Reviewed drawings.
 - .5 Change orders.
 - .6 Other modifications to Contract.
 - .7 Copy of approved work schedule.
 - .8 Field test reports.
 - .9 Manufacturer's installation and application instructions.
 - .10 Site specific Health and Safety Plan and other safety related documents.
 - .11 Other documents as stipulated elsewhere in the Contract Documents.

1.11 Site
Conditions

- .1 The Contractor will be responsible to visit the roadway and review existing site conditions.

1.12 Departmental
Representative

- .1 Departmental Representative will be assigned after contract award.

1.13 Work Schedule

- .1 Provide to the Departmental Representative in writing and within 5 working days after Contract

award, a detailed construction schedule and traffic control plan. The schedule shall show proposed work to be undertaken and anticipated completion dates for each category of work.

1.14 Sanitary Services

- .1 The Contractor shall provide and maintain sanitary facilities for the use of workers at locations specified by the Departmental Representative. Provision of sanitary facilities shall meet requirements of provincial government and municipal statutes and authorities.

1.15 Contractor's Use of Site

- .1 Use of site: for execution of work within roadway right of way and those areas specified by the Departmental Representative.
- .2 The Departmental Representative will specify the areas for work and storage.

1.16 Project Meetings

- .1 Contractor will arrange project meetings and assume responsibility for setting times and recording and distributing minutes.
- .2 After receiving the Contractor's schedule, traffic control plan, health and safety hazard assessment, and environmental protection plan, and prior to start of construction, a meeting involving Contractor, Departmental Representative and Parks Canada will be held at a place and time to be determined by the Departmental Representative. This meeting will review implications of the contract, design, schedule of work health and safety, methods of construction, environment protection methods and traffic control.
- .3 Interim reviews of work progress based on work schedule will be conducted as decided by Departmental Representative and schedule updated by Contractor in conjunction with and to approval of Departmental Representative.
- .4 No work will begin until the pre-construction meeting is held, and all submittals have been approved.
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- .5 Following the pre-construction meeting and approval of submittals, the work will be carried out to meet the time restraints and have the project completed on time.

1.17 Cutting & Patching

- .1 Cut and patch as required to make work fit.
- .2 Where new work connects with existing and where existing work is altered, cut, patch and make good to match existing work.

1.18 Existing Services

- .1 Carry out work at times directed by authorities having jurisdiction, with minimum of disturbance to pedestrian and vehicular traffic.
 - .2 Before commencing work, establish location and extent of service lines in area of work and notify Departmental Representative of findings.
 - .3 Submit schedule to and obtain approval from Departmental Representative for any shut down or closure of active service or facility. Adhere to approved schedule and provide notice to affected parties.
 - .4 Where unknown services are encountered, immediately advise Departmental Representative and confirm findings in writing.
 - .5 Record locations of maintained, re-routed and abandoned service lines.
 - .6 Ensure that at least one (1) lane of alternating two-way traffic is maintained at construction sites at all times.
 - .7 Ensure pedestrian and other traffic is not unduly impeded, interrupted or endangered by execution or existence of work or plant.
 - .8 Maintain existing signs at all times. When it is necessary to temporarily remove a sign, it shall be dismantled and re-established on a temporary post or stand set back from construction area. The work is considered to be incidental and no separate payment will be made for maintaining or moving signs.
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.9 Verify locations of any underground utilities.

1.19 Additional Drawings

.1 Departmental Representative may furnish additional drawings for clarification. These additional drawings have same meaning and intent as if they were included with plans referred to in Contract documents.

1.20 Relics, Antiques and Wildlife Habitat

.1 Protect relics, antiquities, wildlife habitat, items of historical or scientific interest such as cornerstones and contents, animal nesting sites, commemorative plaques, inscribed tablets, and similar objects found during course of work.

.2 Give immediate notice to Departmental Representative and await Departmental Representative's written instructions before proceeding with work in this area.

.3 Relics, antiquities and items of historical or scientific interest remain her Majesty's property.

1.21 National Park Act

.1 For projects within boundaries of National Park, perform work in accordance with National Parks Act.

1.22 Measurement of Quantities

.1 Linear: Items which are measured by metre or kilometer are to be measured along centreline of installation unless otherwise shown on plans.

.2 Area:
.1 Longitudinal and transverse measurements for areas to be measured horizontally.

.3 Mass:
.1 Term "tonne" shall mean 1000 kg.
.2 Materials which are specified for measurement by mass shall be weighed on scales approved by and at locations designated by Departmental Representative. Units used to haul material being paid for by mass shall bear legible identification numbers plainly visible to scale person as it approaches and leaves scale-house.

- .4 Time:
- .1 Unless otherwise provided for elsewhere or by written authority of Departmental Representative, hourly rental of equipment will be measured in actual working time and necessary travelling time of equipment within limits of project at an all-inclusive rate. Equip each unit of mobile equipment with an approved device to register hours of operation. Devices which only measure hours of running of motor will not be accepted.

1.23 Permits/
Authorities

- .1 The Contractor shall obtain, and pay for, permits from authorities as required for all operations and construction. He shall also comply with all pertinent regulations of all authorities having jurisdiction over the work. The Contractor shall provide copies of all permits to the Departmental Representative prior to starting the work. The Contractor shall be responsible for obtaining all applicable permits, inspections and approvals required and shall pay all changes in connection therewith.

1.24 Equipment
Rental Rates

- .1 Upon written request, the Contractor will supply the Departmental Representative with a list of the rental equipment to be used on work beyond the scope of bid items. Equipment rental rates will be in accordance with current rates published by the Newfoundland and Labrador Department of Transportation and Works.

1.25 Existing Survey

- .1 Topographic survey used in the preparation of these Contract Documents was provided by PWGSC.

1.26 Protection

- .1 Store all materials and equipment to be incorporated into work to prevent damage by any means.
- .2 Repair and replace all materials or equipment damaged in transit or storage to the satisfaction of the Departmental Representative and at no cost to Crown.
- .3 Contractor will take adequate precautions to protect existing structures when operating tracked equipment.
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- .4 Exercise care so as not to obstruct or damage public or private property in the area.

- .5 At completion of work, restore area to its original condition. Damage to ground and property will be repaired by Contractor. Remove all construction materials, residue, excess, etc., and leave site in a condition acceptable to Departmental Representative.