



INVITATION TO TENDER (ITT)	Title-Sujet McKenzies Brook Bridge Replacement - Highway 431, Gros Morne National Park (GMNP)			
Amendment #1	Solicitation No No. de linvitation 5P201-19-0028/A	Date: May 22, 2019		
RETURN BIDS TO:	GETS Reference No. I No de reference o SEAG PW-19-00874279	Client Ref. No. I No. de réf du client. 1268		
Parks Canada Agency - Central Registry Contracting Operations	Solicitation Closes (YY-MM-DD):			
111 Water Street East Cornwall, Ontario, K6H 6S2 Solicitation No. <i>5P201-19-0028/A</i>	at 🛛 à on 🛛 le 2:00 PM 2019-05-30	Time Zone - Fuseau horaire: EDT - HAE		
	F.O.B F.A.B. Plant-Usine: Destination	n: Other-Autre:		
Tender To: Parks Canada Agency	Address Inquiries to: Adresser toute demande de renseignements à : Sheldon Lalonde (sheldon.lalonde@canada.ca)			
We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.	Telephone No No de téléphone (613) 938-5948	Fax No. I No de FAX: (877) 558-2349		
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Issuing Office	Telephone No N° de téléphone:			
Parks Canada Agency - Central Registry Contracting Operations, 111 Water Street East	Facsimile No N° de télécopieur:			
Cornwall, Ontario, K6H 6S2	Signature	Date		



Amendment #1 May 22, 2019

THE PURPOSE OF THIS AMENDMENT IS TO GIVE EFFECT TO THE FOLLOWING:

- 1. In the Specifications, remove section 01 29 00 in its entirety and replace with the revised section 01 29 00 Payment Procedures May 20190, attached herewith.
- 2. **APPENDIX 1 COMBINED PRICE FORM** is to be deleted in its entirety and replaced by: **APPENDIX** <u>1 - COMBINED PRICE FORM (REV.0517)</u> attached below.
- **3.** Revision to specifications as follows:
- 1. In the Specifications, ADD Section 31 23 33.01 [] Excavating, Trenching and Backfilling
 - 1.1.4. Section 31 24 13 Roadway Embankments
- 2. In the Specifications, **REMOVE** Section 31 23 33.01 I Excavating, Trenching and Backfilling
 - **1.3.4:** Borrow Material: material obtained from locations outside area to be graded and required for construction and fill areas or for other portions of work.
 - **REPLACE:** Section 31 23 33.01 Excavating, Trenching and Backfilling
 - **1.3.4:** Borrow Material (Rock): Rock shall be hard, durable, evenly graded blasted stone with a maximum particle size no greater than 150mm and will contain no more than six percent (6%) by weight passing the 25.4mm sieve and be free of cobbles and boulders. Rock borrow to be evenly graded within the limits specified.
- 3. In the Specifications, ADD Section 31 23 33.01 [] Excavating, Trenching and Backfilling
 - **3.8.10** Rock borrow shall be placed in compacted lifts not exceeding 450mm and compacted to 100 percent of the materials Standard Proctor Maximum Dry Density (SPMDD).
- 4. In the Specifications, section 31 62 18, delete clause 3.1.2 and replace with new clause 3.1.2 to read:

3.1.2 Limit of two (2) full strength welded splices per pile will be permitted for the required pile length. No splices will be permitted within the top six meters (6.0m) of the pile.

.1 Use complete joint penetration groove welds. Test weld soundness to W59 Section 11, Statically Loaded Structures.

5. Revisions to the Drawings:

S9 All references depicting GFRP shall be DELETED. All concrete reinforcing shall be galvanized reinforcing steel.

- 4. Questions and Answers:
- Q1 Are there two different types of concrete reinforcement required for construction?
- A1 All concrete reinforcement shall be galvanized reinforcing steel.
- Q2 The supply and installation of galvanized reinforcement is included in the pricing under Item No. 1 -Cast-in-Place Reinforced Concrete, however an approximate tonnage for rebar was not supplied. Could you please provide estimated amount of rebar to be utilized in the project?
- A2 The galvanized reinforcement quantity has been separated from Item #1 Cast-in-Place Reinforced Concrete of the Unit Price Table. See revised Section 01 29 00 - Payment Procedures.
- Q3 The table of contents in the specification for this project lists 32 91 19.13 [] Topsoil Placement and Grading however the section isn included with the specification. Could you please forward this section?
- A3 See Section 32 91 19.13 [] Topsoil Placement and Grading (attached).

ALL OTHER TERMS AND CONDITIONS OF THE ITT REMAIN UNCHANGED

APPENDIX 1 - COMBINED PRICE FORM (rev.0517)

- 1) The prices per unit will govern in establishing the Total Extended Amount. Any arithmetical errors in this Appendix will be corrected by Canada.
- 2) Canada may reject the bid if any of the prices submitted do not reasonably reflect the cost of performing the part of the work to which that price applies.

Bidders are reminded that it is their responsibility to include in their bid all work as described in the drawings and specifications. Pricing for work not accounted for in the Unit Price Table including but not limited to Mobilization, De-Mobilization, etc. is to be included in the Lump Sum Table.

LUMP SUM TABLE

The Total Lump Sum Amount designates Work to which a Lump Sum Arrangement applies:

- a) Bidders are reminded that it is their responsibility to include in their bid all work as described in the drawings and specifications.
- b) Pricing for work not accounted for in the Unit Price Table is to be included in the Lump Sum Amount.
- c) Work included in the Lump Sum Amount represents all work described in the Summary of Work document (Including but not limited to Mob/Demob, testing, inspections, travel, etc.).

ltem No.	Specification Reference	Class of Labour, Plant or Material	Unit of Measurement	Estimated Quantity	Estimated Total Price GST/HST extra
1	01 25 20	Mobilization / Demobilization	Lump Sum	1	
2	01 35 43	Environmental Procedures	Lump Sum	1	
3	01 52 00	Construction Facilities	Lump Sum	1	
4	02 41 13	Structure Demolition	Lump Sum	1	
5	31 23 33.01	Foundation Excavation Bridge	Lump Sum	1	
6	32 17 23	Painted Traffic Lines and Markings	Lump Sum	1	
7	03 20 00	Concrete Reinforcing	Lump Sum	1	
8	01 29 00	Other Items Not Included in the Unit Price Table	Lump Sum	1	
TOTAL LUMP SUM AMOUNT (LSA) Excluding HST					

UNIT PRICE TABLE

The unit price table designates the Work to which a Unit Price Arrangement applies

- (a) The Price per Unit and the Price must be entered for each Item Listed
- (b) Work included in each item is as described in the referenced specification section

ltem No.	Specification Reference	Class of Labour, Plant or Material	Unit of Measurement	Estimated Quantity	Price per Unit GST/HST extra	Estimated Total Price GST/HST extra
1	03 30 00	Cast-in-Place Concrete	cubic metre	353		
2	05 50 00	Galvanized Armour Angles	Each	2		
3	07 15 00	Bridge Deck Waterproofing	square metre	435		
4	31 11 00	Clearing	Hectare	0.45		
5	31 11 00	Grubbing	Hectare	0.45		
6	31 23 33.01	Unclassified Excavation Roadway and Drainage	cubic metre	2900		
7	31 23 33.01	Borrow Common	cubic metre	24500		
8	31 24 14	Fill Against Structure	Tonne	1950		
9	32 92 19.16	Hydraulic Seeding	square metre	10700		
10	32 92 19.16	Dry Mulch	square metre	10700		
11	32 92 19.16	Top Soil	square metre	10700		
12	34 71 13.25	Steel W-Beam Guiderail	Metre	790		
13	34 71 15	Galvanized Steel Barrier and Metal Railings for Structures	Metre	77		
14	03 41 00	Precast Concrete Girders	Each	5		
15	31 62 18	Steel H-Piles - Supply	linear metres	666		
16	31 62 18	Steel H-Piles - Install	linear metres	666		
17	32 12 16	Asphalt Surface Course	Tonne	645		
18	31 12 16	Asphalt Base Course	Tonne	1370		
19	32 11 23	Granular A Base	Tonne	2500		
20	32 11 16.01	Granular B Subbase	Tonne	4000		
21	32 11 23	Shouldering I Granular B	Tonne	600		
22	33 41 00	1800mm dia. Culvert Pipe - Supply	metre	29		
23	33 41 00	1800mm dia. Culvert Pipe I Install	Metre	29		
24	31 37 00	Rip Rap R-50	Tonne	450		
25	31 37 00	Rip Rap R-100	Tonne	1100		
	TOTAL EXTENDED AMOUNT (TEA) Excluding HST					

TOTAL BID AMOUNT

TOTAL BID AMOUNT (LSA + TEA) Excluding HST

<u>END</u>

Part 1 General

1.1 GENERAL REQUIREMENTS OF THE BID AND ACCEPTANCE FORM

- .1 Unit prices and Lump Sum prices bid are full compensation for the work necessary to complete each item in the Contract and in combination for all work necessary to complete the Work as a whole.
- .2 All measurement shall be along a horizontal plane unless otherwise indicated.
- .3 Overhaul will not be paid for on this project.
- .4 The quantities listed in the Bid and Acceptance Form are approximate only and are for the purpose of tendering. Payment to the Contractor will be based on actual quantities of work completed in accordance with the Drawings and Specifications.
- .5 The numbers of the items described below correspond to the numbers of the items in the Bid and Acceptance Form.
- .6 Should the Contractor need to remove any existing regulatory/warning/information signs or posts in order to complete their Work, the removal and reinstatement of the signs and posts shall be considered incidental.
- .7 There will be no measurement or payment for Work carried out beyond the limits defined on the Drawings.

1.2 MEASUREMENT AND PAYMENT

- .1 Mobilization / Demobilization
 - .1 Unit of Measurement is Lump Sum
 - .2 50% of Lump Sum Contract Price for Mobilization and Demobilization to be paid when mobilization to site is complete. The remainder of the Lump Sum Price for Mobilization and Demobilization to be paid when work is complete and all materials, equipment, buildings, shops, offices, and other facilities have been removed from site and site cleaned and left in condition to the satisfaction of the Departmental Representative and all other Agencies having jurisdiction.
- .2 Environmental Procedures
 - .1 Unit of Measurement is Lump Sum
 - .2 This item includes all environmental protection, sedimentation and erosion control measures required to complete the project, such as (but not limited to) diversion ditching, silt fences, temporary ground covers and rock flow checks in accordance with Parks Canada National Best Management Practices – Roadway, Highway, Parkway and Related Infrastructure. Also included is the periodic and general maintenance of all erosion control measures or as directed by the Departmental Representative.
- .3 Construction Facilities
 - .1 Unit of Measurement is Lump Sum
 - .2 This item includes the provision of construction facilities required to complete the project. This item includes:

- Provide and maintain adequate access to project site.
- Build and maintain temporary roads during period of Work.
- Upon completion of work, rehabilitate any temporary roads to the satisfaction of the Departmental Representative.
- Clean roads and parking areas where used by the Contractor or employees.
- Provide, erect and maintain project identification site signs, safety and instruction signs and notices.
- Provide sanitary facilities.
- Construction site trailer(s).
- Removal of temporary facilities from site as directed by the Departmental Representative.
- .4 Structure Demolition
 - .1 Unit of Measurement is Lump Sum
 - .2 This item includes demolition of the existing bridge superstructure (deck, curbs, railings, asphalt and girders) and the demolition of the existing foundations to 1 meter below the finished grade lines. This item also includes excavation of all material of whatever nature encountered to access existing foundations for the purpose of demolition, excavation and preparation of slopes for the placement of Armour Rip Rap and water control. This item also includes all permits required for demolition and disposal of material.
- .5 Foundation Excavation Bridge
 - .1 Unit of Measurement is Lump Sum
 - .2 This item includes all excavation regardless of type (unclassified) for the construction of the abutments and placement of Fill Against Structure and Armour Rip Rap as shown on the drawings, including the disposal of all material resulting from this operation.
- .6 Painted Traffic Lines and Markings
 - .1 Unit of Measurement is Lump Sum
 - .2 This item includes supply of all materials and application of all traffic lines and markings on the pavement for the approaches and bridge deck as indicated.
- .7 Concrete Reinforcing Galvanized
 - .1 Unit of Measurement is Lump Sum
 - .2 This item includes supply and installation of galvanized reinforcing steel for Cast-In-Place Concrete as indicated and necessary for this work. Approximate galvanized steel reinforcing quantities are provided solely for information purposes and PCA makes no claims with respect to their accuracy. The Contractor shall review the drawings and is responsible to prepare their own quantities. The approximate reinforcing quantity is 42,000 kg (based on ungalvanized).
- .8 Other Items Not Included in the Unit Price Table
 - .1 Unit of Measurement is Lump Sum
 - .2 This item includes all other work considered incidental to the work and which are not specifically mentioned or accounted for in the Unit Price Table or other items

in the Lump Sum Table, but are necessary to complete the work in accordance with the Contract, the Drawings and Specifications. This item shall include, but are not limited to, the following: Project Layout and Surveying, Weigh Scales, Traffic Control, Permits, Temporary Structures, Sign and Sign Post Installation, Cold Weather Protection and Curing of Materials and Water Control.

1.3 ITEMS – UNIT PRICE TABLE

- .1 Cast-in-Place Reinforced Concrete
 - .1 Unit of Measurement is Cubic Meter (m³)
 - .2 This item includes supply, formwork, placing, compacting and finishing of all concrete for the bridge abutments, wingwalls, pilasters, crash blocks, bridge deck (including curbs), approach slab, and approach baffle drains. Measurement shall be based on Contract Drawings with no deduction for displacement by reinforcement. Concrete joint sealant will not be measured separately and will be considered incidental to this pay item.
- .2 Galvanized Armour Angles
 - .1 Unit of Measurement is Each
 - .2 This item includes shop drawings, supply and installation of the armour angle assembly at approach ends of approach slabs.
- .3 Bridge Deck Waterproofing
 - .1 Unit of Measurement is Square Meter (m²)
 - .2 This item includes preparation of surfaces, supply and installation of waterproofing system on bridge deck and approach slabs as applied to the bridge deck and approach slabs and extending 80 millimeters vertically on each curb. Measurement shall be based on contract drawings.
- .4 Clearing
 - .1 Unit of Measurement is Hectare (ha)
 - .2 This item includes cutting and disposal of all trees, brush, and vegetative growth from areas identified.
- .5 Grubbing
 - .1 Unit of Measurement is Hectare (ha)
 - .2 This item includes the removal and off-site disposal of all stumps, roots, visible rock fragments greater than 0.25 m³, downed timber, embedded logs, humus, root mat and topsoil from areas identified.
- .6 Unclassified Excavation Roadway and Drainage
 - .1 Unit of Measurement is Cubic Meter (m³)
 - .2 This item includes excavation of unclassified material after removal of grubbing and topsoil and for placement and compacting of approved fill (common and rock) from on-site sources to lines and elevations indicated. This item shall also include excavation for the removal of culverts which will not be replaced.

- .7 Rock Fill
 - .1 Unit of Measurement is Tonne (t)
 - .2 This item includes loading, transportation, placement and compacting of approved rock backfill material from areas off site, required for construction of embankments or for other portions of work, to lines and elevations indicated. Measurement shall be based on cross sections taken at the source of the material.
- .8 Fill Against Structure
 - .1 Unit of Measurement is Tonne (t)
 - .2 This item includes supply, placement and compaction of fill against abutments to lines and elevations identified. Supply and installation of perforated pipe drain system as shown on the Contract Drawings are included under this item.
- .9 Hydraulic Seeding
 - .1 Unit of Measurement is Square Meter (m²)
 - .2 This item includes supply of all materials, preparation of surface, application and maintenance to areas identified.
- .10 Dry Mulch
 - .1 Unit of Measurement is Square Meter (m²)
 - .2 This item includes supply of all materials, preparation of surface, application and maintenance to areas identified.
- .11 Top Soil
 - .1 Unit of Measurement is Square Meter (m²)
 - .2 This item includes salvage work of existing topsoil, preparation of surface, supply of imported topsoil if applicable, as per Departmental Representative directives, application and maintenance to areas identified. All imported topsoil must come from a location near the Park boundary and is required to be approved by GMNP's Resource Conservation Division.
- .12 Steel W-Beam Guiderail
 - .1 Unit of Measurement is Meter (m)
 - .2 This item includes supply of all materials including Michigan Shoes, channel, reflectors, installation, backfilling, compaction, disposal of excess material and reinstatement of disturbed surfaces. Measurement shall be based on linear measure of the completed sections, end to end (including buried sections), regardless of the number of rails between individual posts. Removal of existing guiderail will not be measured and will be considered incidental to this pay item.
- .13 Galvanized Steel Barrier and Metal Railings for Structures
 - .1 Unit of Measurement is Meter (m)
 - .2 This item includes supply and installation including galvanizing, nuts, bolts, washers, anchors, anchor plates, grouting, railing, posts, base plates, epoxy grout, and all other items necessary to complete the work and as detailed on the drawings.

.14 Precast Concrete Girders

- .1 Unit of Measurement is Each (ea)
- .2 This item includes the supply and installation as indicated and necessary for this work. Incidentals to this item includes bearing assemblies, joint reinforcing and grouting.
- .15 Steel H-Piles Supply
 - .1 This item is measured in Linear Meters (lm)
 - .2 This item includes the supply of steel H-piles, pile shoes, cap plates and other items required to complete the work.
 - .3 Measure installation of piles in meters of pile acceptably incorporated into work following trimming and cutting of the piles. Measurement will be taken from the final pile tip elevation to the top of pile elevation remaining in the work.
 - .4 Supply of pile shoes will be considered incidental to the work.
 - .5 Extra piling to replace damaged piles will be considered incidental to the work and will not be measured for payment.
- .16 Steel H-Piles Install
 - .1 This item is measured in Linear Meters (lm)
 - .2 This item includes the installation of steel H-piles, pile shoes, cap plates and other items required to complete the work.
 - .3 Measure installation of piles in meters of pile acceptably incorporated into work following trimming and cutting of the piles. Measurement will be taken from the final pile tip elevation to the top of pile elevation remaining in the work.
 - .4 Installation of pile shoes will be considered incidental to the work.
 - .5 The Contractor shall be responsible for hiring their own certified testing company for PDA and should be considered incidental to the work.
- .17 Asphalt Surface Course
 - .1 Unit of Measurement is Tonne (t)
 - .2 This item includes supply, transportation of all materials include asphalt tack coat and asphalt binder; production, handling, preparation of surface, placing (including material transfer device), rolling and compaction of asphalt concrete. This item also includes keyed joints at each end of construction and isolated areas of patch paving throughout construction. This item also includes the paving of the bridge deck (thickness as per drawings).
 - .3 There will be no payment for extra thickness or extra width of asphalt placed outside of the theoretical lines and grades as indicated on the drawings. Whenever, in the opinion of the Departmental Representative, there is extra thickness or extra width, the appropriate weight will be deducted.
- .18 Asphalt Base Course
 - .1 Unit of Measurement is Tonne (t)
 - .2 This item includes supply, transportation of all materials include asphalt binder; production, handling, preparation of surface, placing (including material transfer device), rolling and compaction of asphalt concrete. This item also includes

keyed joints at each end of construction and isolated areas of patch paving throughout construction.

- .3 There will be no payment for extra thickness or extra width of asphalt placed outside of the theoretical lines and grades as indicated on the drawings. Whenever, in the opinion of the Departmental Representative, there is extra thickness or extra width, the appropriate weight will be deducted.
- .19 Granular A Base
 - .1 Unit of Measurement is Tonne (t)
 - .2 This item includes supply, haulage, placement and compaction of crushed rock base granular material to the limits and at the locations indicated on the drawings. There will be no payment for extra thickness of base material placed outside of the theoretical lines and grades as indicated on the drawings. Whenever, in the opinion of the Departmental Representative, there is extra thickness, the appropriate weight will be deducted.
- .20 Granular B Subbase
 - .1 Unit of Measurement is Tonne (t)
 - .2 This item includes supply, haulage, placement and compaction of crushed rock subbase granular material to the limits and at the locations indicated on the drawings. There will be no payment for extra thickness of subbase material placed outside of the theoretical lines and grades as indicated on the drawings. Whenever, in the opinion of the Departmental Representative, there is extra thickness, the appropriate weight will be deducted.
- .21 Shouldering Granular B
 - .1 Unit of Measurement is Tonne (t)
 - .2 This item includes supply, haulage, placement and compaction of shouldering material to the limits and at the locations indicated on the drawings. There will be no payment for extra thickness of shoulder material placed outside of the theoretical lines and grades as indicated on the drawings. Whenever, in the opinion of the Departmental Representative, there is extra thickness, the appropriate weight will be deducted.
- .22 1800mm dia Culvert Pipe Supply
 - .1 Unit of Measurement is Meter (m)
 - .2 This item includes the supply of culvert pipe, including all excavation, compaction, end treatments, grading, and all other items necessary to complete the work and as detailed on the drawings.
- .23 1800mm dia Culvert Pipe Install
 - .1 Unit of Measurement is Meter (m)
 - .2 This item includes the installation of culvert pipe, including all excavation, compaction, end treatments, grading, and all other items necessary to complete the work and as detailed on the drawings.
- .24 Rip Rap R-50
 - .1 Unit of Measurement is Cubic Meter (t)

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- .2 This item includes supply and placement where indicated. This item also includes the supply and installation of geotextile material beneath the armour rip rap as required. Measurement shall be based on contract drawings.
- .25 Rock fill Rip-Rap R-100
 - .1 Unit of Measurement is Cubic Meter (t)
 - .2 This item includes supply and placement where indicated. This item also includes the supply and installation of geotextile material beneath the rip-rap as required. Measurement shall be based on contract drawings.
- Part 2 Products
- 2.1 NOT USED
 - .1 Not Used.
- Part 3 Execution
- 3.1 NOT USED
 - .1 Not Used.

END OF SECTION

Part 1 General

1.1 SCOPE OF WORK

.1 This section specifies topsoil, topsoil amendments, the stripping of topsoil, the preparation of existing grades, the placement of topsoil, and finish grading.

1.2 RELATED SECTIONS

.1 Section 32 92 19.16 – Hydraulic Seeding

1.3 REFERENCES

.1 Specifications Book Highway Design Division - NL Department of Transportation and Works, Section 631.

1.4 QUALITY ASSURANCE

- .1 Test Reports: certified test reports showing compliance with specified performance characteristics and physical properties.
- .2 Certificates: product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.
- .3 Pre-Installation Meetings: conduct pre-installation meeting to verify project requirements, installation instructions and warranty requirements.

1.5 TESTING

.1 All soil and sand used in this project shall be tested for compliance with texture specification by a laboratory designated by the Owner. Soil sampling, testing and analysis to be in accordance with Provincial regulations and standards. Contractor will arrange and pay for cost of tests.

1.6 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate and recycle waste materials.
- .2 Divert unused soil amendments from landfill to official hazardous material collections site approved by Departmental Representative.
- .3 Do not dispose of unused soil amendments into sewer systems, into lakes, streams, onto ground or in locations where it will pose health or environmental hazard.

Part 2 Products

2.1 TOPSOIL

.1 Topsoil for this project to consist of topsoil stripped from site and imported topsoil to be supplied by the Contractor, if required. The Contractor shall obtain imported topsoil locally and obtain approval from the Departmental Representative prior to importing

topsoil. The Departmental Representative will verify the location and/or stockpile of imported topsoil for any invasive species of plant that could be present.

- .2 Topsoil composition shall consist of 20 to 70% sand and contain 2 to 10% organic matter by weight.
- .3 Topsoil shall be free of debris and stones larger than 75mm in greatest dimension and large clods, roots and any other coarse vegetative material, of a size equal to or greater than the thickness of the layer of topsoil to be placed.
 - .1 In areas of lawn restoration, topsoil shall be free of debris and stones larger than 25mm in greatest dimension.

2.2 SOURCE QUALITY CONTROL

.1 The Contractor shall notify the Departmental Representative of the source(s) of topsoil to be obtained from outside the Work Site, at least 7 days prior to importing material from off site.

Part 3 Execution

3.1 STRIPPING OF TOPSOIL

- .1 Commence topsoil stripping of areas after all wood brush and grasses have been removed from site.
- .2 Strip and pulverize topsoil to depths as indicated. Avoid mixing topsoil with subsoil where textural quality will be moved outside acceptable range of intended application.
- .3 Stockpile in locations as directed by Departmental Representative. Stockpile height not to exceed 2 metres.
- .4 Unused topsoil is to remain on site.
- .5 Protect stockpiles from contamination and compaction.

3.2

PREPARATION OF EXISTING GRADE AND PLACEMENT OF TOPSOIL

- .1 The Contractor shall carry out the Work as indicated in the Contract Documents and/or as specifically directed by the Departmental Representative.
- .2 Areas to be topsoiled shall be scarified or otherwise loosened to a depth of at least 50mm within 1 day preceding the placement of topsoil.
- .3 Topsoil placement in the Work Area shall be completed prior to the placement of any Roadbed materials above Subgrade, unless otherwise approved by the Departmental Representative.
- .4 Topsoil shall be spread on the prepared area(s) to a depth of 100mm±25mm and shall be brought to a true and even surface meeting the required grade.
 - .1 Hand placement and raking shall be required in areas adjacent to finished lawns or in areas of restricted access.
 - .2 In areas of lawn restoration, topsoil shall be rolled using a lawn roller or approved equivalent.

- .3 Topsoil shall be placed on foreslopes from Subgrade shoulder down in cuts and fills, including the slopes of the Borrow "A" quality material as identified in the Contract Documents; and on backslopes or as directed by the Departmental Representative.
- .4 Placing of topsoil shall not be carried out on frozen materials or when materials are wetted to such a degree that balling and clumping results.
- .5 Topsoil shall not be placed after the end of the week in which September 30th occurs without approval of the Departmental Representative.
- .6 If excess topsoil material exists after completion of the Work, this material shall remain the property of the Owner.

3.3 ACCEPTANCE

.1 Departmental Representative will inspect and test topsoil in place and determine acceptance of material, depth of topsoil and finish grading.

3.4 CLEANING

- .1 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.
- .2 Clean all exposed rock and boulder surfaces to approval of Departmental Representative.

END OF SECTION