

**PARKS CANADA
HIGHLAND LINKS BERM CONSTRUCTION
PROJECT NO. CBH140604**

JUNE 2014

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APPENDIX A DRAWINGS

- PC-002-100: Clyburn Brook Stabilization - Phase I Key Map
- PC-002-203: Clyburn Brook Stabilization - Phase I Berm to Protect Fairway 11 Plan and Profile Sta. 0+000 to 0+380
- PC-002-204: Clyburn Brook Stabilization - Phase I Berm to Protect Fairway 11 & 12 Plan and Profile Sta. 0+380 to 0+750
- PC-002-205: Clyburn Brook Stabilization - Phase I Berm to Protect Fairway 11 & 12 Berm Cross Sections

PART 1 - GENERAL

1.1 WORK COVERED BY
CONTRACT DOCUMENTS

.1 Work of this Contract includes but is not limited to:

Parks Canada requires a Contractor to provide their equipment / services for an Earthmoving project at the Highlands Links Golf Course that will construct an earth berm between #11 and #12 fairways to prevent flood damage at the Highlands Links Golf Course.

Work includes but is not limited to: the construction of a new earth berm from approximate chainage 0+140 - 0+540 shown on the drawings in Appendix A. The berm will be constructed of a combination of Rip Rap and gravel bar and berm materials to dimensions shown in Appendix A. All gravel material for the project is to be provided by Parks Canada and is located in Roper's Pit, 36601 Cabot Trail. The Contractor will be required to load and haul this material from Roper's Pit to #11 / #12 at the Highlands Links Golf Course, Ingonish, NS. Once material arrives onsite the Contractor will be required to place and compact fill material from approximate chainage 0+140 - 0+540 using designated haul road and berm road.

The work under this requirement comprises the furnishing of all skilled licensed labour, materials, tools, equipment, transportation and supervision required to carry out the performance of supply of heavy equipment with and without operators, in Ingonish, NS. The project location includes but is not limited to: the Highlands Links Golf Course, Ropers Pit 36601 Cabot Trail and haul route between these two locations.

Heavy Equipment supplied for this project may be asked to provide any of the following minimum services as part of this contract:

- Tandem trucks to haul material (Type I gravel, Type II gravel, 4" - 6" Rip Rap, Borrow material, etc.) from Ropers Pit to Highlands Links Golf Course #11 - #12 Fairways
- Excavator or Backhoe to load Trucks at Ropers Pit with (Type I gravel, Type II gravel, 4" - 6" Rip Rap, Borrow material, etc.)
- Excavator to unload trucks at Highlands Links Golf Course #11 - #12
- Excavator to place berm material, compact and shape Type I gravel, Type II gravel, 4" - 6" Rip Rap, Borrow material, etc.
- Walk behind Compactor to compact all berm materials to a minimum of 95% Proctor density.
- Additional requirements as specified during construction such as maintaining access road to

site, ditching to ensure water runoff is not trapped, etc.

The survey work for this project will be provided by Parks Canada which will provide the Contractor with: centerline and edges of the berm along with designated amount of fill required for the berm at these locations.

The tree removal at the berm location will also be completed by Parks Canada prior to the Contractors arrival.

Parks Canada anticipate this being a continuous project once it begins; however, weather / existing conditions may cause delays in the schedule that will be mutually agreed upon between the Contractor and the Department Representative. In addition the Contractor maybe required to supply any or all of the equipment being quoted depending on the schedule being mutually agreed upon by the Contractor and Department Representative.

The Contractor must adhere to the following standards during the performance of the work:

- Canada Labour Code (CLC)
- Canadian Standards Association (CSA)
- Nova Scotia Occupational Health and Safety Act (OHSA)
- Workers Compensation Act (WCA)

All of the Contractor's personnel performing work on-site must have the appropriate trade licenses and certifications to perform the work specified on the call-up document. Contractor will be required to provide a copy of all personnel's certification along with safety documentation prior to commencing each project. Failure to supply these documents will result in the employees not being permitted to complete the project.

a) Certifications include:

- NSCSA Certification
- Letter of Good Standing with the NS Workers Compensation Board
- Standard First Aid Certification

At no time will the Contractor enter or leave Canada's facilities without signing in and out with the Department Representative. Please note time of arrival and time of departure on the work slips; which must be signed daily by Department Representative in order to receive payment.

The Contractor shall clean and tidy up work site daily. All empty containers, discarded materials and the like shall be removed from the site at the completion of each day's work. This debris shall not be placed in

the occupant's garbage cans located inside or out, but will be disposed off site by the Contractor. On completion of the job, the site shall be left clean and tidy to the complete satisfaction of the Department Representative.

Contractor will be required to review all necessary permits prior to commencing work and must review these permits to ensure their own hazard assessment can be completed prior to commencing work. Parks Canada will also provide a hazard assessment for the project which the contractor will be required to review.

Additional project details such as drawings are included in Appendix A.

1.2 CONTRACT METHOD

.1 Contract Work under unit price contract. Contractor will be required to provide unit prices on all categories provided and a low bidder will be selected for each category as per the enclosed specifications.

.2 Parts and material that is not free issue will be supplied by Contractor at the laid down price plus a markup. The mark up is to include all invoice costs, overhead costs, transportation costs, exchange charges, customs, duty, and brokerage charges. GST/HST will be extra

The Owner reserves the right to supply materials to the Contractor on a project by project basis. In the event the Owner is supplying the materials it will be stated at the time of call up.

1.3 WORK SEQUENCE

.1 The Work must be completed between July 1 - September 1, 2014. Contractor and Department Representative will mutually agree on tentative schedule upon contract award that will be adjusted according to weather and site conditions.

.2 Construct Work to accommodate Owner's continued use of premises during construction.

.3 Contractor must keep a travel lane open to golf carts and pedestrian traffic at all times.

.4 Contractor to Commence work as per Department Representatives requirements.

.5 Maintain Emergency Services access/control.

1.4 CONTRACTOR USE
OF PREMISES

- .1 At completion of operations condition of existing work: equal to or better than that which existed before new work started.

1.5 EXISTING
SERVICES

- .1 Notify Departmental Representative and utility companies of intended interruption of services and obtain required permission.
- .2 Where Work involves breaking into or connecting to existing services, give Department Representative 48 hours notice for necessary interruption of mechanical or electrical service throughout course of work. Minimize duration of interruptions. Carry out work at times as directed by governing authorities with minimum disturbance to vehicular traffic.
- .3 Provide alternative routes for vehicular traffic.
- .4 Establish location and extent of service lines in area of work before starting Work. Notify Department Representative of findings.
- .5 Where unknown services are encountered, immediately advise Department Representative and confirm findings in writing.

1.6 DOCUMENTS
REQUIRED

- .1 Maintain at job site, one copy each document as follows:
 - .1 Specifications.
 - .2 Addenda.
 - .3 Change Orders.
 - .4 Other Modifications to Contract.
 - .5 Field Test Reports.
 - .6 Copy of Approved Work Schedule.
 - .7 Health and Safety Plan and Other Safety Related Documents.
 - .8 Other documents as specified.

PART 2 - PRODUCTS

2.1 NOT USED

- .1 Not used.

PART 3 - EXECUTION

3.1 NOT USED

- .1 Not used.

PART 1 - GENERAL

1.1 General Requirements

- .1 The Form of Tender includes several unit priced items.
- .2 There are unit price items included in this Contract for possible work which may or may not be required to complete the project, for which an accurate assessment of the quantity of the item cannot be made until the work is in progress.
- .3 The Contractor in submitting their Tender for the project understand that they will only be entitled to payment under the unit price items when prior written authorization has been received from the Departmental Representative for utilization and then only to the extent of the work authorized by the Departmental Representative.
- .4 Additional instructions for measurement and/or payment for items of the work may be contained in specific sections of the Technical Specifications. In the case of a conflict between the instructions for measurement for payment contained in this section with that of any other section, the requirement of this section shall apply.
- .5 The submitted tender prices will be inclusive of all costs for the complete supply and installation of all materials, labour and equipment required to complete the work. No separate payment will be made for any testing, inspections and approvals required by Contractor.
- .6 Tender prices for unit price items including aggregate materials pavement shall be inclusive of the costs for transport, placement and compaction. Parks Canada will supply all of the aggregate materials to a designated pit location, Ropers Pit 36601 Cabot Trail.

1.2 Unit Price Items

.1 INGONISH EXCAVATOR ONLY SUPPLY

Unit of Measure: Per Week & Per Hour

Description of Measurement

- .1 Excavator Only Price: all labour, equipment and materials required to supply an Excavator ONLY approximate size 12,000 - 15,000kg, 86-100hp or approved equal to Ingonish, either Highlands Links Golf Course or Ropers Pit, 36601 Cabot Trail. Mobilization cost will be a separate line item.
- .2 Equipment Rate pricing is an all inclusive price for the supply, operation and labour for each piece of equipment responding to a request. This price includes

but is not limited to: all traveling expenses while working onsite or hauling to a disposal site, profit, overhead, direct labour, tools and equipment required to perform work on weekly basis after mobilization of equipment has taken place. It is Parks Canada's intention to have continuous construction on this project once it begins; however, this will be weather / existing conditions dependent so all equipment may not be required for the full length of the project. The cost of mobilizing equipment to the site is NOT included in the Equipment Rate pricing and will be provided as a lump sum price in addition to the weekly rate.

.3 **Regular Hours** are between 7:30 a.m. to 4:30 p.m. Monday to Friday excluding Statutory Holidays. This is also the basis for the hours expected to cover the daily and weekly rates. Contractor should base bid prices on an average 40hr work week but the Contractor with prior approval from the Department Representative maybe permitted to alter work hours to suite site conditions. Weather and site conditions may require variations to these hours.

.4 The Offeror must indicate a price to perform work at the Highlands Links Golf Course in Cape Breton Highlands Ingonish, NS.

.2 **MOBILIZATION EXCAVATOR ONLY SUPPLY**

Unit of Measure: Per Mobilization

Description of Measurement

.1 **Mobilization pricing** is an all inclusive price to transport each piece of equipment to and from the designated job site (Highlands Links Golf Course, or Ropers Pit Ingonish, NS). This price includes but is not limited to: all traveling expenses, profit, overhead, direct labour, tools and equipment required to mobilize the equipment to and from the job site. This price will not be included in the weekly rate quoted in the tender all work associated with mobilization will be completed outside the normal weekly times provided. Mobilization pricing will not be applicable if the equipment is already at the site when Call-up is received by the Contractor.

.2 The Offeror must indicate a price to perform work at the Highlands Links Golf Course in Cape Breton Highlands Ingonish, NS.

.3 **INGONISH EXCAVATOR & OPERATOR SUPPLY**

Unit of Measure: Per Week & per hour

Description of Measurement

.1 Excavator and Operator Price: all labour, equipment and materials required to supply an Excavator and Qualified Operator approximate size of machine 12,001 - 15,000kg, 86-100hp or approved equal to Ingonish, either Highlands Links Golf Course or Ropers Pit, 36601 Cabot Trail. Mobilization cost will be a separate line item.

.2 **Equipment Rate pricing** is an all inclusive price for the supply, operation and labour for each piece of equipment responding to a request. This price includes but is not limited to: all traveling expenses while working onsite or hauling to a disposal site, profit, overhead, direct labour, tools and equipment required to perform work on weekly basis after mobilization of equipment has taken place. It is Parks Canada's intention to have continuous construction on this project once it begins; however, this will be weather / existing conditions dependent so all equipment may not be required for the full length of the project. The cost of mobilizing equipment to the site is NOT included in the Equipment Rate pricing and will be provided as a lump sum price in addition to the weekly rate.

.3 **Regular Hours** are between 7:30 a.m. to 4:30 p.m. Monday to Friday excluding Statutory Holidays. This is also the basis for the hours expected to cover the daily and weekly rates. Contractor should base bid prices on an average 40hr work week but the Contractor with prior approval from the Department Representative maybe permitted to alter work hours to suite site conditions. Weather and site conditions may require variations to these hours.

.4 The Offeror must indicate a price to perform work at the Highlands Links Golf Course in Cape Breton Highlands Ingonish, NS.

.4 MOBILIZATION EXCAVATOR & OPERATOR SUPPLY

Unit of Measure: Per Mobilization

Description of Measurement

.1 **Mobilization pricing** is an all inclusive price to transport each piece of equipment to and from the designated job site (Highlands Links Golf Course, Ingonish, NS). This price includes but is not limited to: all traveling expenses, profit, overhead, direct labour, tools and equipment required to mobilize the equipment to and from the job site. This price will not be included in the weekly rate quoted in the tender all work associated with mobilization will be completed outside the

normal weekly times provided. Mobilization pricing will not be applicable if the equipment is already at the site when Call-up is received by the Contractor.

.2 The Offeror must indicate a price to perform work at the Highlands Links Golf Course in Cape Breton Highlands Ingonish, NS.

.5 INGONISH TRUCK & OPERATOR SUPPLY

Unit of Measure: Per Week & Per hour

Description of Measurement

.1 Tandem truck and Operator Price: all labour, equipment and materials required to supply a Tandem truck and Qualified Operator with gross vehicle weight of 26,000kg, 330-450hp that will be used to haul material to Ingonish, Either Highlands Links Golf Course or Ropers Pit 36601 Cabot Trail. Mobilization cost will be a lump sum price included as a separate line item, not included in the weekly cost. Material hauling costs to and from this site and designated disposal site(s) are to be included in the weekly costs for this equipment. All labour, equipment, fuel and materials required to operate the tandem truck once mobilized to the site must be included in the weekly rate.

.2 **Equipment Rate pricing** is an all inclusive price for the supply, operation and labour for each piece of equipment responding to a request. This price includes but is not limited to: all traveling expenses while working onsite or hauling to a disposal site, profit, overhead, direct labour, tools and equipment required to perform work on weekly basis after mobilization of equipment has taken place. It is Parks Canada's intention to have continuous construction on this project once it begins; however, this will be weather / existing conditions dependent so all equipment may not be required for the full length of the project. The cost of mobilizing equipment to the site is NOT included in the Equipment Rate pricing and will be provided as a lump sum price in addition to the weekly rate.

.3 **Regular Hours** are between 7:30 a.m. to 4:30 p.m. Monday to Friday excluding Statutory Holidays. This is also the basis for the hours expected to cover the daily and weekly rates. Contractor should base bid prices on an average 40hr work week but the Contractor with prior approval from the Department Representative maybe permitted to alter work hours to suite site conditions. Weather and site conditions may require variations to these hours.

.4 The Offeror must indicate a price to perform work at the Highlands Links Golf Course in Cape Breton Highlands

Ingonish, NS.

.6 MOBILIZATION EXCAVATOR ONLY SUPPLY

Unit of Measure: Per Mobilization

Description of Measurement

.1 Mobilization pricing is an all inclusive price to transport each piece of equipment to and from the designated job site (Highlands Links Golf Course, Ingonish, NS). This price includes but is not limited to: all traveling expenses, profit, overhead, direct labour, tools and equipment required to mobilize the equipment to and from the job site. This price will not be included in the weekly rate quoted in the tender all work associated with mobilization will be completed outside the normal weekly times provided. Mobilization pricing will not be applicable if the equipment is already at the site when Call-up is received by the Contractor.

.2 The Offeror must indicate a price to perform work at the Highlands Links Golf Course in Cape Breton Highlands Ingonish, NS.

.7 INGONISH BACKHOE & OPERATOR SUPPLY

Unit of Measure: Per Week & per Hour

Description of Measurement

.1 Backhoe and Operator Price: all labour, equipment and materials required to supply a Backhoe and Qualified Operator with a minimum of 80hp and over capacity to move material in Ingonish, either Highlands Links Golf Course or Ropers Pit, 36601 Cabot Trail. Mobilization cost will be a lump sum price included as a separate line item, not included in the weekly cost. Material hauling costs to and from this site and designated disposal site(s) are to be included in the weekly costs for this equipment. All labour, equipment, fuel and materials required to operate the tandem truck once mobilized to the site must be included in the weekly rate.

.2 Equipment Rate pricing is an all inclusive price for the supply, operation and labour for each piece of equipment responding to a request. This price includes but is not limited to: all traveling expenses while working onsite or hauling to a disposal site, profit, overhead, direct labour, tools and equipment required to perform work on weekly basis after mobilization of equipment has taken place. It is Parks Canada's intention to have continuous construction on this project once it begins; however, this will be weather / existing conditions dependent so all equipment may not be required for the full length of the project. The cost of

mobilizing equipment to the site is NOT included in the Equipment Rate pricing and will be provided as a lump sum price in addition to the weekly rate.

.3 **Regular Hours** are between 7:30 a.m. to 4:30 p.m. Monday to Friday excluding Statutory Holidays. This is also the basis for the hours expected to cover the daily and weekly rates. Contractor should base bid prices on an average 40hr work week but the Contractor with prior approval from the Department Representative maybe permitted to alter work hours to suite site conditions. Weather and site conditions may require variations to these hours.

.4 The Offeror must indicate a price to perform work at the Highlands Links Golf Course in Cape Breton Highlands Ingonish, NS.

.8 **MOBILIZATION EXCAVATOR ONLY SUPPLY**

Unit of Measure: Per Mobilization

Description of Measurement

.1 **Mobilization pricing** is an all inclusive price to transport each piece of equipment to and from the designated job site (Highlands Links Golf Course, Ingonish, NS). This price includes but is not limited to: all traveling expenses, profit, overhead, direct labour, tools and equipment required to mobilize the equipment to and from the job site. This price will not be included in the weekly rate quoted in the tender all work associated with mobilization will be completed outside the normal weekly times provided. Mobilization pricing will not be applicable if the equipment is already at the site when Call-up is received by the Contractor.

.2 The Offeror must indicate a price to perform work at the Highlands Links Golf Course in Cape Breton Highlands Ingonish, NS.

.9 **INGONISH WALK BEHIND COMPACTION EQUIPMENT & OPERATOR**

Unit of Measure: Per Week & Per hour

Description of Measurement

.1 **Walk behind Compaction equipment and operator:** all labour, equipment and materials required to supply walk behind compaction equipment that is a minimum of 32" - 36" wide and can achieve 95% Proctor Density compaction on specified berm materials. All compaction to be completed in Ingonish, Highlands Links Golf Course or Ropers Pit, 36601 Cabot Trail. Mobilization cost will be a lump sum price included as a sparate line item, not included in the weekly cost.

.2 **Equipment Rate pricing** is an all inclusive price for the supply, operation and labour for each piece of equipment responding to a request. This price includes but is not limited to: all traveling expenses while working onsite or hauling to a disposal site, profit, overhead, direct labour, tools and equipment required to perform work on weekly basis after mobilization of equipment has taken place. It is Parks Canada's intention to have continuous construction on this project once it begins; however, this will be weather / existing conditions dependent so all equipment may not be required for the full length of the project. The cost of mobilizing equipment to the site is NOT included in the Equipment Rate pricing and will be provided as a lump sum price in addition to the weekly rate.

.3 **Regular Hours** are between 7:30 a.m. to 4:30 p.m. Monday to Friday excluding Statutory Holidays. This is also the basis for the hours expected to cover the daily and weekly rates. Contractor should base bid prices on an average 40hr work week but the Contractor with prior approval from the Department Representative maybe permitted to alter work hours to suite site conditions. Weather and site conditions may require variations to these hours.

.4 The Offeror must indicate a price to perform work at the Highlands Links Golf Course in Cape Breton Highlands Ingonish, NS.

.10 **MOBILIZATION EXCAVATOR ONLY SUPPLY**

Unit of Measure: Per Mobilization

Description of Measurement

.1 **Mobilization pricing** is an all inclusive price to transport each piece of equipment to and from the designated job site (Highlands Links Golf Course, Ingonish, NS). This price includes but is not limited to: all traveling expenses, profit, overhead, direct labour, tools and equipment required to mobilize the equipment to and from the job site. This price will not be included in the weekly rate quoted in the tender all work associated with mobilization will be completed outside the normal weekly times provided. Mobilization pricing will not be applicable if the equipment is already at the site when Call-up is received by the Contractor.

.2 The Offeror must indicate a price to perform work at the Highlands Links Golf Course in Cape Breton Highlands Ingonish, NS.

PART 1 - GENERAL

1.1 SECTION
INCLUDES

- .1 Health and safety considerations required to ensure that PWGSC shows due diligence towards health and safety on construction sites, and meets the requirements laid out in PWGSC/RPB Departmental Policy DP 073 - Occupational Health and Safety - Construction.

1.2 REFERENCES

- .1 Canada Labour Code, Part 2, Canada Occupational Safety and Health Regulations
- .2 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
 - .1 Material Safety Data Sheets (MSDS).
- .3 Province of Nova Scotia
 - .1 Occupational Health and Safety Act, S.N.S. [1996].

1.3 SUBMITTALS

- .1 Make submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Submit site-specific Health and Safety Plan: Within 7 days after date of Notice to Proceed and prior to commencement of Work. Health and Safety Plan must include:
 - .1 Results of site specific safety hazard assessment.
 - .2 Results of safety and health risk or hazard analysis for site tasks and operation found in work plan.
- .3 Submit [2] copies of Contractor's authorized representative's work site health and safety inspection reports to Department Representative.
- .4 Submit copies of reports or directions issued by Federal, Provincial health and safety inspectors.
- .5 Submit copies of incident and accident reports.
- .6 Submit WHMIS MSDS - Material Safety Data Sheets in accordance with Section [01 47 15 - Sustainable Requirements: Construction] and Section [02 81 01 - Hazardous Materials].
- .7 Department Representative will review Contractor's site-specific Health and Safety Plan and provide

comments to Contractor within [3] days after receipt of plan. Revise plan as appropriate and resubmit plan to Departmental Representative within [3] days after receipt of comments from Department Representative.

- .8 Department Representative's review of Contractor's final Health and Safety plan should not be construed as approval and does not reduce the Contractor's overall responsibility for construction Health and Safety.
- .9 On-site Contingency and Emergency Response Plan: address standard operating procedures to be implemented during emergency situations.

1.4 SAFETY ASSESSMENT

- .1 Perform site specific safety hazard assessment related to project.

1.5 MEETINGS

- .1 Schedule and administer Health and Safety meeting with Department Representative prior to commencement of Work.

1.6 REGULATORY REQUIREMENTS

- .1 Comply with Nova Scotia Temporary Workplace Traffic Control Manual requirements.

1.7 PROJECT/SITE CONDITIONS

- .1 Work at site will involve contact with:
 - .1 Departmental Representative.
 - .2 Vehicular traffic using the Cabot Trail.

1.8 GENERAL REQUIREMENTS

- .1 Develop written site-specific Health and Safety Plan based on hazard assessment prior to beginning site Work and continue to implement, maintain, and enforce plan until final demobilization from site. Health and Safety Plan must address project specifications.
- .2 Department Representative may respond in writing, where deficiencies or concerns are noted and may request re-submission with correction of deficiencies or concerns.

1.9 RESPONSIBILITY

- .1 Be responsible for health and safety of persons on

site, safety of property on site and for protection of persons adjacent to site and environment to extent that they may be affected by conduct of Work.

- .2 Comply with and enforce compliance by employees with safety requirements of Contract Documents, applicable federal, provincial, territorial and local statutes, regulations, and ordinances, and with site-specific Health and Safety Plan.

1.10 COMPLIANCE REQUIREMENTS

- .1 Comply with Occupational Health and Safety Act, Occupational Safety General Regulations, N.S. Reg.

1.11 UNFORSEEN HAZARDS

- .1 When unforeseen or peculiar safety-related factor, hazard, or condition occur during performance of Work, follow procedures in place for Employee's Right to Refuse Work in accordance with Acts and Regulations of Province having jurisdiction and advise Departmental Representative verbally and in writing.

1.12 POSTING OF DOCUMENTS

- .1 Ensure applicable items, articles, notices and orders are posted in conspicuous location on site in accordance with Acts and Regulations of Province having jurisdiction, and in consultation with Department Representative.

1.13 CORRECTION OF NON-COMPLIANCE

- .1 Immediately address health and safety non-compliance issues identified by authority having jurisdiction or by Department Representative.
- .2 Provide Department Representative with written report of action taken to correct non-compliance of health and safety issues identified.
- .3 Department Representative may stop Work if non-compliance of health and safety regulations is not corrected.

1.14 BLASTING

- .1 Blasting or other use of explosives is not permitted.

1.15 POWDER
ACTUATED DEVICES

- .1 Use powder actuated devices only after receipt of written permission from Department Representative.

1.16 WORK STOPPAGE

- .1 Give precedence to safety and health of public and site personnel and protection of environment over cost and schedule considerations for Work.

PART 2 - PRODUCTS

2.1 NOT USED

- .1 Not used.

PART 3 - EXECUTION

3.1 NOT USED

- .1 Not used.

PART 1 - GENERAL

1.1 REFERENCES

- .1 Definitions:
 - .1 Environmental Pollution and Damage: presence of chemical, physical, biological elements or agents which adversely affect human health and welfare; unfavorably alter ecological balances of importance to human life; affect other species of importance to humankind; or degrade environment aesthetically, culturally and/or historically.
 - .2 Environmental Protection: prevention/control of pollution and habitat or environment disruption during construction. Control of environmental pollution and damage requires consideration of land, water, and air; biological and cultural resources; and includes management of visual aesthetics; noise; solid, chemical, gaseous, and liquid waste; radiant energy and radioactive material as well as other pollutants.
- .2 Reference Standards:
 - .1 Canadian Construction Documents Committee (CCDC)
 - .1 CCDC 2-2008 Stipulated Price Contract.
 - .2 U.S. Environmental Protection Agency (EPA)/Office of Water
 - .1 EPA 832/R-92-005-[92], Storm Water Management for Construction Activities, Chapter 3.

1.2 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Provide submittals to Department Representative.
- .2 Prior to commencing construction activities or delivery of materials to site, provide Environmental Protection Plan for review and approval by Departmental Representative.
- .3 Ensure Environmental Protection Plan includes comprehensive overview of known or potential environmental issues to be addressed during construction.
- .4 Include in Environmental Protection Plan:
 - .1 Name[s] of person[s] responsible for ensuring adherence to Environmental Protection Plan.
 - .5 Erosion and sediment control plan identifying type and location of erosion and sediment controls

to be provided including monitoring and reporting requirements to assure that control measures are in compliance with erosion and sediment control plan, Federal, Provincial, and Municipal laws and regulations[, EPA 832/R-92-005, Chapter 3 requirements.

.5 Spill Control Plan including procedures, instructions, and reports to be used in event of unforeseen spill of regulated substance.

1.3 FIRES

- .1 Fires and burning of rubbish on site not permitted.

1.4 WORK ADJACENT TO WATERWAYS

- .1 Construction equipment to be operated on land only.
- .2 Do not use waterway beds for borrow material without Departmental Representative's approval.
- .3 Waterways to be free of excavated fill, waste material and debris.
- .4 Design and construct temporary crossings to minimize erosion to waterways.
- .5 Do not skid logs or construction materials across waterways.
- .6 Avoid indicated spawning beds when constructing temporary crossings of waterways.

1.5 POLLUTION CONTROL

- .1 Maintain temporary erosion and pollution control features installed under this Contract.
- .2 Control emissions from equipment and plant to local authorities' emission requirements.
- .3 Prevent sandblasting and other extraneous materials from contaminating air and waterways beyond application area.
 - .1 Provide temporary enclosures where [indicated] directed by Departmental Representative.
- .4 Cover or wet down dry materials and rubbish to prevent blowing dust and debris. Provide dust control for temporary roads.

1.6

HISTORICAL/ARCHAEOLOGICAL CONTROL

- .1 Provide historical, archaeological, cultural resources biological resources and wetlands plan that defines procedures for identifying and protecting historical, archaeological, cultural resources, biological resources and wetlands known to be on project site: and/or identifies procedures to be followed if historical archaeological, cultural resources, biological resources and wetlands not previously known to be onsite or in area are discovered during construction.
- .2 Plan: include methods to assure protection of known or discovered resources and identify lines of communication between Contractor personnel and Departmental Representative.

1.7 NOTIFICATION

- .1 Departmental Representative will notify Contractor in writing of observed noncompliance with Federal, Provincial or Municipal environmental laws or regulations, permits, and other elements of Contractor's Environmental Protection plan.
- .2 Contractor: after receipt of such notice, inform Departmental Representative of proposed corrective action and take such action for approval by Departmental Representative.
 - .1 Do not take action until after receipt of written approval by Departmental Representative.
- .3 Departmental Representative will issue stop order of work until satisfactory corrective action has been taken.
- .4 No time extensions granted or equitable adjustments allowed to Contractor for such suspensions.

PART 2 - PRODUCTS

2.1 NOT USED

- .1 Not Used.