

PART 1 -GENERAL

1. DESCRIPTION OF WORK

.1 The project is located at the Alexander Graham Bell National Historic Site (AGB), 559 Chebucto Street, Baddeck, NS. The project involves the complete removal of decorative concrete panels from the exterior of the building **approximately 300ft long along with the disposal of the panels offsite**. The panels are located on two roof levels at the AGB complex and their height above ground surface varies due to contours of the grounds adjacent to the AGB. Approximately 211ft of panel material must be removed from the upper roof deck which includes Sections 1, and 2 shown on Sketch in Appendix A. The other 89ft of panel material is to be removed from the lower roof deck, Sections 3, 4 and 5 on Sketch in Appendix A. Appendix B provides existing building drawings for the Contractors reference.

The panels are suspended from the existing concrete membrane roof structure by several different attachment methods. Contractor will be required to confirm exact attachment conditions in the field and ensure they can remove attachment without damaging the existing roof structure. Once Contractor removes the panel the Contractor must immediately ensure all sharp or protruding objects are cut flush with the edge of the roof deck to prevent anyone from hurting themselves on these objects.

Contractor must supply and install a temporary wooden railing to National building code standards to prevent anyone from falling over the edge of the newly exposed roof. The railing must be securely fastened to the existing roof deck to ensure the safety of workers and the public until the permanent railing system can be installed. The permanent railing structure will be constructed by others following the completion of this project.

The panels must be removed using equipment that can totally support the panel while it is being divided into smaller sections, suspended from the building and removed. Parks Canada will not approve removal methods of the panels which do not support the panels during removal due to the large size and weight of the panels. Without adequate support the panels will damage the adjacent building or grounds not to mention the danger to personnel removing the panels. Removal of the panels using a jackhammer in combination with genie lifts maybe considered but details of this method and size of material to be jack hammered along with method to prevent building structural damage must be pre-approved by the Department Representative. This pre-approval must be completed prior to submitting tender in order to guarantee acceptance.

There are 2 methods to access the two roof sections requiring panel removal which include:

1. Travel along the grass area that runs parallel to the front of the AGB complex in combination with the concrete walkway at the front of the building. Both of these locations are restricted by the width of the location and any damage by the contractor must be reinstated upon project completion.
2. Travel along the grass area at the rear of the AGB complex to panel location. This access is extremely restrictive given the steep bank between the rear of the building and the panels located at the front face of the building.
3. Heavy equipment on the roof surface itself will not be permitted for this project.

4. Parks Canada will consider alterations to the existing landscaping that could provide the Contractor easier access to the project area. Any alterations must be restored to original or better conditions at the completion of the project and at the Contractors expense.
- .2 Contractor will be completely responsible for ensuring the security of the site while removal is taking place. Once removal has been completed the Contractor must dispose of all materials offsite at the contractors expense.
- .3 All damage to sod, concrete walkways, asphalt surfaces, building, etc. must be reinstated immediately to the satisfaction of the Department Representative to equal or better conditions then original condition.
- .4 Contractor will be responsible to locate all existing services, obtain all permits, and clearance reports from appropriate utilities prior to commencing construction.
- .5 Contractor to provide Department Representative a minimum of 24 hours notice prior to commencing construction.
- .6 Contractor is required to provide all the labour, materials and equipment to totally remove and dispose of concrete panels at the AGB complex, along with all sharp objects / protrusions, soffit, etc. that would leave newly exposed area in an unsafe condition.
- .7 The Contractor will be fully responsible to provide all labour, equipment and materials required to install a temporary wooden railing following the removal of concrete panels.

3. MAINTENANCE OF WORK DURING CONSTRUCTION

- .1 Maintain work during construction. Undertake continuous and effective maintenance of work day by day, with adequate equipment and forces so that the structures are continuously kept in a condition satisfactory to Departmental Representative.

4. CODES

- .1 Perform work in accordance with Code of Practice of the Department of Labour, Canada Labour Code, Standard Specifications for Municipal Services and all applicable codes 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, Standard Municipal Specifications, AWWA, and other standards organizations.
- .3 Conform to latest revision of any referenced standard as reaffirmed or revised to date of specification. Standards or codes not dated shall be deemed editions in force on date of tender advertisement.

5. WORK WITHIN PARK BOUNDARIES

.1 The Contractor shall be fully aware that the project is within a National Historic Site 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 Department Representative.
- .2 If Contractor fails to repair damage to the satisfaction of Department, the Department Representative may complete at Contractor's expense.
- .3 The Contractor shall ensure that contracted work meets the standards outlined in the contract specifications.
- .4 The Contractor shall ensure that no damage will be done to underground services.

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.

7. SITE CONDITIONS

- .1 The Contractor will be deemed to have familiarized themselves with existing site and working conditions and all other conditions which may affect performance of the Contract. No plea of ignorance of such conditions as a result of failure to make all necessary examinations will be accepted as a basis for any claims for extra compensation or an extension of time.
- .2 The Contractor will be deemed to have examined the site of work for nature of location of work, local conditions, soil and subsurface structure and topography, nature and quality of material to be used, equipment and facilities needed to execute the work, means of access, existing underground and overhead infrastructure and understand the risk, contingencies and circumstances that may affect the Work.
- .3 Any information provided by the Department Representative as to the subsurface or concealed conditions is only for informational purposes.

8. WORK SCHEDULE

- .1 Submit to the Department Representative a minimum of 24hrs prior to construction.
- .2 The final completion date shall be December 31, 2013.

9. SANITATION

.1 The Contractor shall provide and maintain, so long as any workers are employed on the works, adequate sanitary facilities for their use at locations specified by the Department Representative. Provide, maintain and remove sanitary facilities in accordance with the requirements of provincial government and municipal statutes and authorities.

10. CONTRACTOR'S USE OF SITE

.1 The Department Representative will specify the areas for work and storage.

11. PROJECT MEETINGS

.1 Department Representative will arrange project meetings and assume responsibility for setting times and recording and distributing minutes.

12. SETTING OUT OF 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 Department Representative's inspection of work.

13. EXISTING SERVICES

- .1 Carry out work at times directed by authorities having jurisdiction, with minimum of disturbance to operations of surrounding facilities.
- .2 Before commencing work, establish location and extent of service lines in area of work and notify Department Representative of findings.
- .3 Submit schedule to and obtain approval from Department 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 Department Representative and confirm findings in writing.

14. TRAFFIC DIRECTION AND CONTROL

- .1 Provide sufficient signs and barriers to redirect pedestrians or vehicle traffic away from work area. Comply with all applicable federal, provincial and local authorities having jurisdiction.
- .2 Ensure that at least one lane of traffic is maintained at construction sites at all times.
- .3 Ensure pedestrian and other traffic is not unduly impeded, interrupted or endangered by execution or existence of work or plant.
- .4 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.
- .5 Although the facility is closed to the visiting public after October 14, 2013, there is still a lot of local pedestrian traffic including children that walk

around the perimeter of the building so extreme care must be taken to ensure operations do not create a safety hazard either during construction or after hours.

15. RELICS, ANTIQUES &

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 Department Representative and wait Department 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.

16. PERMITS / AUTHORITIES

.1 The Contractor shall be responsible for obtaining all applicable permits, inspections and approvals required and shall pay all charges in connection therewith. The Contractor also shall comply with all pertinent regulations of all authorities having jurisdiction over the work. The Contractor shall provide copies of all permits to the Owner prior to starting the work.

PART 1 -GENERAL

- 1. SUBMITTALS**
- .1 Submit to Department Representative copies of the following documents, including updates issued:
 - .1 Site Specific Health and Safety Plan.
 - .2 Site Specific Hazard Assessment.
 - .3 Compliance certificates and other permits obtained
 - .4 Reports or directions issued by Federal, Provincial inspectors or other Authority having jurisdiction.
 - .5 Formal Safety Inspection Reports
 - .6 Accident or Incident Reports
 - .7 MSDS data sheets.
 - .8 Name of person(s) designated to perform full time health and safety site supervision.
 - .2 Submit other data, information and documentation upon request as stipulated elsewhere in this section.

2. COMPLIANCE REQUIREMENTS

- .1 Comply with the Occupational Health and Safety Act for the Province of Nova Scotia, and the Regulations made pursuant to the Act.
- .2 Comply with Canada Labour Code Part II, and the Canada Occupational Safety and Health Regulations made under Part II of the Canada Labour Code.
- .3 Observe and enforce construction safety measures required by:
 - .1 2005 National Building Code of Canada, Division B, Part 8;
 - .2 Provincial Worker's Compensation Board;
 - .3 Municipal statutes and ordinances.
 - .4 In event of conflict between any provisions of above authorities the most stringent provision will apply. Should a dispute arise in determining the most stringent requirement, Department Representative will advise on the course of action to be followed.
 - .5 A copy of the Canada Labour Code Part II may be obtained by contacting:
Canadian Government Publishing
Public Works & Government Services Canada
Ottawa, Ontario, K1A 0S9
Tel: (819) 956-4800 (1-800-635-7943)
Publication No. L31-85/2000 E or F)

- .6 Maintain Workers Compensation Coverage for duration of Contract. Submit Letter of Good Standing to Department Representative prior to commencing project.

3. RESPONSIBILITY

- .1 Be responsible for safety of persons and property on work site and for the general public circulating adjacent to work operations to extent that they may be affected by conduct of work.
- .2 Enforce compliance by workers and other persons granted access to work site with safety requirements of Contract Documents, applicable federal, provincial, and local statutes, regulations, and ordinances, and with site-specific Health and Safety Plan.

4. SITE CONTROL AND ACCESS

- .1 Control work site and entry points. Grant and allow entry to only workers and other persons so authorized. Immediately stop non-authorized persons from circulating within construction areas and remove from site.
- .2 Implement procedures for granting permission to enter onto work site to all persons who require access. Procedures to include the provision of a site safety orientation session.
- .3 Delineate and isolate construction areas from other areas of site by use of appropriate means. Erect barricades, fences, hoarding and temporary lighting as required.
- .4 Erect signage at entry points and at other strategic locations around site, clearly identifying construction area(s) as being "off-limits" to non-authorized persons. Signage must be professionally made in both official languages or by use of well understood graphic symbols.
- .5 Secure site at night time or provide security guard as deemed necessary to protect site against entry.
- .6 Ensure persons granted access are fitted and wear appropriate personnel protective equipment (PPE). Be responsible for the provision of such PPE to persons who require access to conduct work or perform inspections.

5. PROTECTION

- .1 Provide temporary facilities for protection and safe passage of public pedestrians and vehicular traffic around and adjacent to work site.
- .2 Provide safety barricades, lights and signage on work site as required to provide a safe working environment for workers.
- .3 Carry out work placing emphasis on health and safety of public, building employees, site personnel and protection of the environment.
- .4 Should unforeseen or peculiar safety related hazard or condition become evident during performance of work, immediately take measures to rectify the situation and prevent damage or harm. Advise Department Representative verbally and in writing.

6. FILING OF NOTICE

- .1 File Notice of Project and other Notices with Provincial, Federal, etc. authorities prior to commencement of Work.
- .2 Upon request, Department Representative will provide name and mailing address of provincial department to whom the Notice of Project must be sent.

7. PERMITS

- .1 Obtain permits, licenses and compliance certificates, at appropriate times and frequency as stipulated by authorities having jurisdiction.
- .2 Where particular permit or compliance certificate cannot be obtained at the required stage of work, notify Department

8. HAZARD ASSESSMENTS

- .1 Implement and carry out a health and safety hazard assessment program as part of the work. As a minimum the program shall include:
 - .1 Initial hazard assessment carried out immediately upon notification of contract award and prior to commencement of work.
 - .2 On-going hazard assessments performed during the progress of work identifying new or potential health risks and safety hazards not previously known. As a minimum hazard assessments shall be carried out when:
 - .1 New sub trade work, new subcontractor(s) or new workers arrive at the site to commence another portion of the work.
 - .2 The scope of work has been changed by Change

Order. Notify the Representative in writing and obtain Department Representative's approval to proceed prior to carrying out that portion of work.

.3 Potential hazard or weakness in current health and safety practices are identified by Department Representative or by an authorized safety representative.

.3 Hazard assessments to be project and site specific, based on review of contract documents, site and weather conditions.

.4 Each hazard assessment to be made in writing. Keep copies of all assessments on site for duration of work. Upon request, make available to Department Representative for inspection.

9. PROJECT/SITE CONDITIONS

.1 The following are known or potential project related safety hazards at site:
.1 Working adjacent to existing utilities: irrigation system, storm culverts, power, phone, etc.

10. SAFETY MEETINGS

.1 Provide site safety orientation session to all workers and other authorized persons prior to granting them access to work site. Brief persons on site conditions and on the minimum site safety rules in force at site.

.2 Conduct site specific occupational health and safety meetings during the entire work as follows:
.1 Formal meetings on a minimum monthly basis
.2 Informal tool box meetings on a regular basis from a predetermined schedule.

.3 Keep workers informed of anticipated hazards, on safety practices and procedures to be followed and of other pertinent safety information related to:

.1 Changes in site and project conditions.

.4 Record and post minutes of meetings. Make copies available to Department Representative upon request.

- .5 Post all permits on site as required by authority having jurisdiction. Submit copies to Department Representative.

**11. HEALTH AND
SAFETY PLAN**

- .1 Develop written site-specific Project Health and Safety Plan, based on hazard assessments, prior to commencement of work. Submit plan to Department Representative within 7 calendar days of Contract Award date.
- .2 Health and Safety Plan shall contain the following three (3) parts:
 - .1 Part 1: List of individual health risks and safety hazards identified by hazard assessments.
 - .2 Part 2: List of specific measures to control or mitigate each hazard and risk identified in part one of Plan. Describe the engineering controls, personnel protective equipment and safe work practises to be implemented and followed when performing work related to each identified hazard or risk.
 - .3 Part 3: Emergency Measures and Communications Procedures as follows:
 - .1 Emergency Measures: on-site operating procedures, evacuation measures and emergency response to be implemented in the occurrence of an incident. Procedures to be specific and relevant to identified hazards. Measures to complement and be integrated with the facility and tenants Emergency Response Plans in place at site.
 - .1 Obtain information on existing emergency and evacuation plans from Department Representative and incorporate appropriate data.
 - .2 Communication Procedures:
 - .1 List of names and telephone numbers of designated officials, to be contacted should an incident or emergency situation occur, including the following.
 - .1 General Contractor and all Subcontractors.
 - .2 Federal and Provincial Departments and local emergency resources organizations, as resources organizations, as applicable laws and regulations.
 - .3 Implement, maintain and enforce compliance with requirements of the Health and Safety Plan until final completion of work and demobilization from site.

- .4 As work progresses, review and update Plan addressing additional health risks and safety hazards identified by on-going hazard assessments.
- .5 Submission of the Health and Safety Plan, and updates, to the Department Representative is for review and information purposes only. Its submission shall not be construed to imply approval by Department Representative, be interpreted as a warranty of being complete, accurate and legislative compliant and shall not relieve Contractor of his legal obligations for the provision Health and Safety on the construction project.

**12. SAFETY
SUPERVISION AND
INSPECTIONS**

- .1 Designate competent person or persons to be present on site at all times during work, responsible for supervising health and safety and conducting safety inspections of work site.
- .2 Assign responsibility, obligation and authority to such designated person(s) to stop and start work as deemed necessary for reasons of health and safety.
- .3 Provide names of designated individuals to Department Representative.
- .4 Cooperate with Health and Safety Site Coordinator responsible for the entire site.
- .5 Conduct regularly scheduled safety inspections of work site as follows:
 - .1 Informal Inspections: carry out on a minimum daily basis. Note deficiencies and remedial action taken in a log book or diary.
 - .2 Formal Inspections: carry out on a minimum weekly basis. Use standardized safety checklist forms. Prepare written report for each formal inspection.
- .6 All persons in Contractor's employ responsible for health and safety requirements specified in the Contract Documents to be competent in Occupational Health and Construction Safety as defined in the Provincial Occupational Health And Safety Act.

13. TRAINING

- .1 Ensure that workers, subcontractors and other authorized persons granted access to site is trained and have been fully instructed, by a competent instructor, on:

- .1 Safe operation of tools and equipment.
 - .2 Proper wearing and use of personnel protective equipment (PPE) as applicable to the purpose and activities to be conducted on site.
 - .3 Safe work practices and procedures to be followed during the performance of their given work tasks or function on site.
 - .4 Site Conditions and minimum site safety rules provided through site orientation sessions.
- .2 Make training records available for review by Department Representative upon request.

14. MINIMUM SITE SAFETY RULES

- .1 Notwithstanding the requirement to abide by federal and provincial health and safety regulations, the following safety rules shall be considered minimum requirements at the work site and obeyed by all persons granted access:
- .1 Wear personnel protective equipment (PPE) appropriate to function and task on site; the minimum requirements being hard hat, safety footwear (and eye protection where appropriate).
 - .2 Immediately report unsafe activities, conditions, near-miss accidents, injuries and damages.
 - .3 Maintain site in tidy condition.
 - .4 Obey warning signs and safety tags.
- .2 Brief workers on site safety rules, and on the disciplinary measures to be taken for violation or non compliance of such rules. Post such information on site.

15. ACCIDENT REPORTING

- .1 Investigate and report incidents and accidents as outlined in Provincial Occupational Safety and Health Act and Regulations.
- .2 Investigate and immediately report to Department Representative incidents and accidents which results, or has the potential of resulting in:
- .1 Injuries requiring medical aid,
 - .2 Property damage in excess of \$5000.00,
 - .3 Interruption to building operations with potential loss to Owner or client in excess of \$5000.00,
 - .4 Required notification to Workers Compensation Board or other regulatory agencies as stipulated by applicable regulations.

.3 Medical aid in above clause shall have the same meaning as the term "medical aid injury" as defined in the Canadian Dictionary of Safety Terms -1987 issue, from the Canadian Society of Safety Engineers (C.S.S.E) as follows:

.1 Medical Aid Injury: any minor injury for which medical treatment was provided and the cost of which is covered by Workers' Compensation Board of the province in which the injury was incurred.

**16. TOOLS AND
EQUIPMENT SAFETY**

- .1 Implement and follow a scheduled tool and equipment inspection / maintenance program at work site. Regularly check tools, equipment and machinery for safe operation and perform maintenance at pre-established time and frequency intervals as recommended by manufacturer. Include subcontractor's equipment as part of the inspection process.
- .2 Use standardized checklists to ensure established safety checks are stringently followed.
- .3 Immediately tag and remove items found faulty or defective off site.
- .4 Maintain written documentation on each inspection. Make available to Department Representative upon request.

**17. HAZARDOUS
PRODUCTS**

- .1 Comply with requirements of Workplace Hazardous Materials Information Systems (WHMIS).
- .2 Keep MSDS data sheets on site. Provide copies of all data sheets to Department Representative upon receipt of materials on site.

**18. RECORDS ON
SITE**

- .1 Maintain on site copy of safety documentation as specified in this section and other safety related reports and documents issued to or received from authorities having jurisdiction.
- .2 Make available to Department Representative, or authorized safety representative, for inspection upon request.

PART 1 -GENERAL

1. RELATED WORK

- .1 General Instructions 01 11 00

2. REFERENCES

- .1 WHMIS: Workplace Hazardous Materials Information System, Health Canada.
- .2 Transportation of Dangerous Goods Act Transport Canada, update 2008-02-21.
- .3 Guidelines for the Use of Explosives in or Near Canadian Fisheries Waters, Department of Fisheries and Oceans Canada, 1998.
- .4 MBCA: Migratory Birds Convention Act, Environment Canada, 1994.
- .5 Canadian Coast Guard Regulations, Department of Fisheries and Oceans Canada.
- .6 Canadian Shipping Act, Transport Canada, 2001.
- .7 AWPA: American Wood Preserver Association.

3. 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.

4. DEFINITIONS

- .1 Environmental Pollution and Damage: presence of chemical, physical, biological elements or agents which adversely affect human health and welfare; unfavourably 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 include management of visual aesthetics; noise; solid; chemical, gaseous, and liquid waste; radiant energy and radioactive material as well as other pollutants.
- .3 Watercourse: refers to the bed and shore of a river, stream, lake, creek, pond, marsh, estuary or salt-water body that contains water for at least part of each year.
- .4 Alien species: refers to a species or subspecies introduced outside its normal distribution whose establishment and spread threaten ecosystems, habitats or species with economic or environmental harm.

- .5 Buffer zone: a vegetated land that protects watercourses from adjacent land uses. It refers to the land adjacent to watercourses, such as streams, rivers, lake, ponds, oceans, and wetlands, including the floodplain and the transitional lands between the watercourse and the drier upland areas.

5. SUBMITTALS

- .1 Prior to commencing construction activities or delivery of materials to site, submit Environmental Protection Plan for review and approval by Department Representative. Environmental Protection Plan is to present comprehensive overview of known or potential environmental issues which must be addressed during construction.
- .2 Address topics at level of detail commensurate with environmental issue and required construction tasks.

6. 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 worksite to keep the site sanitary and to prevent unwanted interactions with Park fauna (e.g. bears). 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. Violators will be fined in accordance with the National Park Act.
- .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 Department Representative.
- .6 To reduce potential negative impacts on Park fauna (especially moose), noise control measures, such as properly functioning mufflers on equipment, must be in place.

7. FIRES

- .1 Fires and burning of rubbish on site are not permitted.
- .2 The Contractor is required to comply with the Fire Protection Regulations of the National Parks Act.
- .3 In accordance with these Regulations, the Park Superintendent may restrict activities, or access to work areas, in the interest of fire prevention.
- .4 The Contractor's equipment must be in proper working condition, and be used in such a manner as to minimize the potential for ignition of vegetation.
- .5 Vehicles and stationary equipment must be equipped with fire suppression equipment such as an operable fire extinguisher.

- .6 If storage and/or operation of in-Park equipment during a high fire hazard season is of concern to the Park, the Contractor may be required to prepare and implement a Fire Suppression Contingency Plan.
- .7 The Department Representative and the Duty Warden of the Park must be contacted immediately in the event of a fire. The Contractor is held responsible to make all reasonable efforts to extinguish any fires on the site.

8. SITE CLEARING & PLANT PROTECTION

- .1 Vegetation should not be cleared unless approved by Department Representative.
- .2 Avoid disturbance to low cover vegetation.
- .3 Protect trees and plants on site and adjacent areas.
- .4 Bulldozers, graders, and other clearing and grubbing equipment should not be operated outside of designated clearing boundaries and should have a restricted turning radius.

9. WORK ADJACENT TO WATERWAYS

- .1 Do not operate construction equipment in waterways.
- .2 Do not use waterway beds for borrow material.
- .3 Do not dump excavated fill, waste material or debris in waterways.
- .4 Design and construct temporary crossings to minimize erosion to waterways.
- .5 Do not clean or drain equipment in waterways.
- .6 Avoid indicated spawning beds when constructing temporary crossings of waterways.
- .7 Temporary diversion ditches, approved by the Department Representative are to be plastic lined.
- .8 Temporary storage sites for debris and soil generated from clearing operations should be deposited away from watercourses, should be surrounded by a natural vegetative buffer, should be screened from the road and should be selected by the Department Representative.

10. DISPOSAL OF WASTES

- .1 All waste generated from this project will be disposed of outside of park boundaries.
- .2 Do not bury rubbish and waste materials on site. Remove all garbage from site daily.
- .3 Do not dispose of waste or volatile materials, such as mineral spirits, oil or paint thinner into waterways, storm or sanitary sewers.

11. DRAINAGE

- .1 Provide temporary drainage and pumping as necessary to keep excavations and site free from water.
- .2 Do not pump water containing suspended materials into waterways.
- .3 Control disposal or runoff of water containing suspended materials or other harmful substances in accordance with local authority requirements.

12. POLLUTION CONTROL

- .1 Maintain temporary erosion and pollution control features installed under this contract.
- .2 Control emissions from equipment and plant to Federal, Provincial and local authorities emission requirements.
- .3 Cover or wet down dry materials and rubbish to prevent blowing dust and debris. Provide dust control for temporary roads. Chemicals used in dust control must have prior approval of the Department Representative.

13. EARTH MOVEMENT

- .1 Where engineering requirements can be met, excavated materials from this project must be used for backfilling.
- .2 There are no borrow areas available in the Park.
- .3 All surplus excavated material must be removed from the Park as soon as possible and disposed of at an approved location and in an approved manner.
- .4 Areas of unstable clays should be left undisturbed.
- .5 Aggregates shall not be removed from streams.
- .6 Sediment traps, basins, or ponds, whether temporary or permanent, should be installed before construction begins on the rest of the site.
- .7 Where there is potential for severe erosion and/or downstream siltation the Contractor shall cover excavations during major precipitation events as directed by Department Representative.

14. EROSION AND SEDIMENTATION CONTROL

- .1 Appropriate preventative controls should be in place at all times during construction to prevent undue erosion and sedimentation, in accordance with the Nova Scotia Manual for Erosion and Sedimentation Control, Handbook for Construction Sites (1988). Such a plan shall incorporate necessary silt fences, silt traps, plastic lined trenches and ditches, temporary culverts or diversions as approved by the Department Representative.

- .2 Backfilled slopes should be mechanically compacted and grades should be consistent with the prevailing down-slope grade. Where it is felt that immediate revegetation is needed to stabilize an area, hydroseeding operations will be carried out, as directed by Department Representative.

15. HAZARDOUS MATERIALS

- .1 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.
- .2 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.
- .3 The management of fuels, lubricants and chemicals must meet with the requirements of the Nova Scotia Dangerous Goods and Hazardous Wastes Management Criteria and all other appropriate provincial and federal regulations to include but not be limited to the following:
 - .1 Temporary fuel storage sites are to be located a minimum 100 m from any watercourse.
 - .2 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.
 - .3 Fuelling and lubricating of equipment cannot be done closer than 100m to any watercourse.
 - .4 All refuelling and lubricating operations should employ protection measures such as drip pans, to reduce the potential for escape or petroleum products to the environment.
- .4 The Department Representative and the Park Warden must be immediately contacted after any spill of any fuel or lubricant, and after any amount of other chemical products has escaped.

16. SITE DECOMMISSIONING

- .1 Unless prior permission from the Department 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 circumstance, upon the suspension of work activities.
- .2 All work sites must be returned to a neat and tidy condition upon site abandonment.

APPENDIX A
Sketch of Panels to be Removed at
Alexander Graham Bell National Historic Site

APPENDIX B
Existing Building Drawings