

**FOR TENDER**

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OIQ n° 5066747

**Part 1            General**

**1.1                WORK BY OTHERS**

- .1            Not used

**1.2                WORK AS DEFINED IN CONTRACTUAL DOCUMENTS**

- .1            The work to be done as indicated in the current contract consists primarily, but is not limited to:
  - .1            Construction of a new observation tower, including the construction of the stairs, landings and roofing;
  - .2            Rehabilitation of the site after the work.
- .2            Specifically, the work includes, but is not limited to, the provision of labor, materials and equipment, and all operations necessary to:
  - .1            Site Preparation for Work;
  - .2            Installation of pile foundations;
  - .3            Construction of the tower, stairs and landings;
  - .4            Construction of the roof and cedar cladding;
  - .5            Rehabilitation of the site.

**1.3                WORK EXECUTION ORDER**

- .1            Coordinate the progress schedule of work according to occupancy;
- .2            Steps to provide for the completion of work, scheduling remains the responsibility of the contractor:
  - .1            Site installation;
  - .2            Site preparation, including removal of localized topsoil;
  - .3            Installation of the pile;
  - .4            Construction of the tower;
  - .5            Cleaning and restoring the premises to its original state.
- .3            Site Review: In order to become familiar with the terms of the project and to obtain all the information necessary for the proper performance of the contract, examine the work site. The ignorance of the conditions of the premises will in no way constitute a valid reason for claiming an additional payment.

**1.4                CONTRACTOR USE OF PREMISES**

- .1            The Contractor shall consider that the work is carried out in a National Wildlife Area. As such, only the licensed premises shall be used by the Contractor.
- .2            Site areas may be used without restriction until substantial completion of the work.
  - .1            Ensure work is performed within limits specified in contract documents. Do not clutter the premises unreasonably with materials.
  - .2            At no time shall it be permitted to move, park equipment or any other vehicle and store material on areas of vegetation.

- .3 Do not overload or allow any part of the structure to be overloaded in order not to compromise its integrity.
- .4 Find and pay for additional work areas or warehouses required to perform work under this Contract.
- .5 Parking: See section 01 52 00 - Site installation

### 1.5 ACCESS PATH

- .1 Only the vehicles, machinery, and equipment necessary for the execution of the work are authorized on the site, in the area permitted for the usage of the premises is limited to the areas necessary for the execution of the work, storage, and access in order to:

- .1 The use of the premises by the public for the zones on the outside of the construction site.

- .2 Maintain fire access/control

- .2 The Contractor will need to determine a working method that will limit the traffic flow. The construction zone access must minimize the disturbance of the premises and the environment. Access to the site must be maintained at all times for the public.

- .3 The Contractor will need to cross paths and tracks with machinery in order to reach the work site. The Contractor will need to repair any damage done to the pavement, grass, gravel, etc., after the crossing of the material.

- .4 A grass path must be used by the contractor to access the work site.

- .5 The Contractor shall use the Access Path provided for this purpose to enter the Work Area. The following constraints must be met:

- .1 Machinery and equipment on crawler moving on the trail shall not exceed a maximum weight of 6800 kg loading included.

- .2 Machinery and equipment on wheels moving on the trail shall not exceed a maximum weight of 4000 kg loading included.

- .3 Material may not be dragged to the ground at any time.

- .4 Machinery and equipment moving on the trail shall not exceed a maximum width of 2.2 m.

### 1.6 SIGNALMAN

- .1 Contractor shall provide signallers when using access roads outside of work area.

### 1.7 WORK HOURS:

- .1 The Contractor is responsible that the work respects decent work hours (from 7:30 am to 5 pm, from Monday to Friday) in order to limit the risk of disrupting the residents and the public. The applicable municipal regulation must also be followed.

- .2 The transport of materials should be done at the beginning and end of the day to minimize the inconvenience for the users of the reserve, before 8:00 and after 16:00.

## **1.8 INSTALLATION OF THE WORK**

- .1 The Contractor must respect the following procedures for the installation of the work to be built:
  - .1 Locate survey reference points on the work site as identified on the plans.
    - .1 Arrange for an on-site meeting with the Departmental Representative after the establishment of the anchor points by the surveyor mandated by the contractor. Work cannot commence until written approval of the positioning of the piles by the Departmental Representative is received.
    - .2 Submit DWG Survey File to Departmental Representative within 48 hours of initial survey and all survey adjustments during execution of Work.
  - .2 Plant the alignments, levels, and the benchmarks for the work to be built, these shall be done with respect to the geometry and elevations indicated in the plans.
  - .3 Determine excavations, column lengths and anchor angles for further work and for control of missing materials
  - .4 Implant pile foundation and mark reference elevations
  - .5 Check final location of the piles.
  - .6 In the case where the Contractor's work does not conform, all rework will be conducted at the expense of the Contractor.

## **1.9 REQUIRED DOCUMENTS**

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

## **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                RELATED REQUIREMENTS**

- .1      Section 01 11 01 – Work related general information
- .2      Section 01 32 16.07 – Construction progress schedule - bar (GANTT) chart.
- .3      Section 01 52 00 – Construction facilities.
- .4      Section 01 74 11 – Cleaning

**1.2                SPECIAL REQUIREMENTS**

- .1      This section presents various specific requirements that need to be met, at all times, during the work. These specific requirements include:
  - .1      Coordinate the work with the Departmental Representative in order to permit the normal operations of the building and its occupants.
  - .2      Noisy work will not be performed from Monday to Friday, between the hours of 5:00 PM and 7:00 AM and any time on weekend. Noisy work consists of, but is not limited to, deliveries of material, machinery or other items, the starting of machinery motors, demolition work, drilling related to the installation of anchors, concrete reinforcement bars and/or screws, and foundation work. The Departmental Representative reserves the right to stop work during normal working hours if the work is deemed to be too noisy.
  - .3      Submit the work schedule in accordance with section 01 32 16.07 Construction Progress Schedule -Bar (Gantt) Chart.
  - .4      Ensure that the General Contractor's onsite workers are aware of the regulations and respect them, most especially the rules concerning fire safety, traffic, and construction site safety.
  - .5      Ensure that the access points to the construction site remain blocked whenever the site is not in use. The General Contractor is responsible for providing protection against trespassing.
  - .6      The Contractor must deliver materials between the parking area and the work site between 7:00 am and 8:00 am or between 4:00 pm and 5:00 pm.
  - .7      **No machinery traffic will be permitted on the dike in order not to compromise it's structural integrity.**
- .2      This list of special requirements is non-exhaustive and the General Contractor must comply with all of the requirements stated in the specifications.

**1.3                CONSTRAINTS FOR THE OCCUPATION OF ACCESS PATH**

- .1      The General Contractor must refer to section 01 52 00 - Construction Facilities for the site boundaries to be respected.

**1.4 SECURITY**

- .1 Where security has been reduced by Work of Contract, provide temporary means to maintain security.

**1.5 BUILDING SMOKING ENVIRONMENT**

- .1 Comply with smoking restrictions. Smoking is not permitted.

**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                DEFINITIONS**

- .1      Activity: element of Work performed during course of Project. Activity normally has expected duration, and expected cost and expected resource requirements. Activities can be subdivided into tasks.
- .2      Bar Chart (GANTT Chart): graphic display of schedule-related information. In typical bar chart, activities or other Project elements are listed down left side of chart, dates are shown across top, and activity durations are shown as date-placed horizontal bars. Generally Bar Chart should be derived from commercially available computerized project management system. The source file and a pdf file must be submitted with each delivery.
- .3      Baseline: original approved plan (for project, work package, or activity), plus or minus approved scope changes.
- .4      Construction Work Week: Monday to Friday, inclusive, will provide five day work week and define schedule calendar working days as part of Bar (GANTT) Chart submission.
- .5      Duration: number of work periods (not including holidays or other nonworking periods) required to complete activity or other project element. Usually expressed as workdays or workweeks.
- .6      Master Plan: summary-level schedule that identifies major activities and key milestones.
- .7      Milestone: significant event in project, usually completion of major deliverable.
- .8      Project Schedule: planned dates for performing activities and the planned dates for meeting milestones. Dynamic, detailed record of tasks or activities that must be accomplished to satisfy Project objectives. Monitoring and control process involves using Project Schedule in executing and controlling activities and is used as basis for decision making throughout project life cycle.
- .9      Project Planning, Monitoring and Control System: overall system operated by Departmental Representative to enable monitoring of project work in relation to established milestones.

### **1.2                REQUIREMENTS**

- .1      Ensure Master Plan and Detail Schedules are practical and remain within specified Contract duration.
- .2      Plan to complete Work in accordance with prescribed milestones and time frame.
- .3      Limit activity durations to maximum of approximately 10 working days, to allow for progress reporting.
- .4      The Award of Contract or time of beginning, rate of progress, Interim Certificate and Final Certificate as defined times of completion are of essence of this contract.

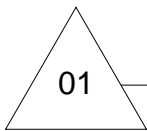
### **1.3                ACTION AND INFORMATIONAL SUBMITTALS**

- .1      Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2      Submit to Departmental Representative within five (5) working days of Award of Contract Bar (GANTT), before the mobilisation, Chart as Master Plan for planning, monitoring and reporting of project progress.

- .3 Submit Project Schedule to Departmental Representative within 2 working days of receipt of acceptance of Master Plan.

#### 1.4 MAJOR MILESTONES

- .1 Project milestones are essential contract conditions that must be stated and identified in the schedule. The milestones indicated for each phase are not limiting but represent the minimum objectives the Contractor must respect to meet the overall Critical Schedule. The Contractor must complete the indicated milestones before beginning a subsequent phase or by the stated date.
- .2 The Contractor must establish a work schedule that minimally respects the following milestones and deadlines:
  - .1 Contract award: no later than five (5) working days following the contract award;
  - .2 Submittals of shop drawings: no later than five (5) working days following the contract award;
  - .3 Job site delivery of the sawn lumber : no later than forty (40) working days following the contract award;
  - .4 Job site delivery of fabricate metal : no later than forty (40) working days following the contract award;
  - .5 Certificate of substantial performance : no later than may 13<sup>th</sup>, 2022.
  - .6 Exclusion fence installation : no later than march 1st 2022.



#### 1.5 MASTER PLAN

- .1 Structure schedule to allow orderly planning, organizing and execution of Work as Bar Chart (GANTT).
- .2 Departmental Representative will review and return revised schedules within 5 working days.
- .3 Revise impractical schedule and resubmit within 2 working days.
- .4 Accepted revised schedule will become Master Plan and be used as baseline for updates. The Contractor can only mobilize after the acceptance of the calendar.

#### 1.6 PROJECT SCHEDULE

- .1 Develop detailed Project Schedule derived from Master Plan.
- .2 Ensure detailed Project Schedule includes as minimum milestone and activity types as follows:
  - .1 Mobilization
  - .2 Work Phases
    - .1 Site preparation including required records and the positioning of the pile
    - .2 Installation of the piles
    - .3 Structure
    - .4 Stairs
    - .5 Railings and Architectural Elements
    - .6 Roof
    - .7 Cleaning
  - .3 Certificate of substantial performance



- .4 Demobilization
  - .1 The end date of the demobilization must be inserted as a "deadline".
- .5 Certificate of completion

**1.7 PROJECT SCHEDULE REPORTING**

- .1 Update Project Schedule on weekly basis reflecting activity changes and completions, as well as activities in progress.
- .2 Include as part of Project Schedule, narrative report identifying Work status to date, comparing current progress to baseline, presenting current forecasts, defining problem areas, anticipated delays and impact with possible mitigation.
- .3 Submit to the Departmental Representative, on each Friday, a forecast of upcoming work for the next week.

**1.8 PROJECT MEETINGS**

- .1 Discuss Project Schedule at regular site meetings, identify activities that are behind schedule and provide measures to regain slippage. Activities considered behind schedule are those with projected start or completion dates later than current approved dates shown on baseline schedule.
- .2 Weather related delays with their remedial measures will be discussed and negotiated.

**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                REFERENCE STANDARDS**

- .1    Migratory Birds Convention Act and the Migratory Birds Regulations
- .2    Canada Wildlife Act and the Wildlife Area Regulations
- .3    Species at Risk Act (SARA)
- .4    Canadian Environmental Assessment Act (2012)
- .5    U.S. Environmental Protection Agency (EPA)/Office of Water
  - .1    EPA 832/R-92-005-92 , Storm Water Management for Construction Activities, Chapter 3.
  - .2    EPA General Construction Permit (GCP) 2012 .

**1.2                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 humans; or degrade environment aesthetically, culturally and/or historically.
- .2    Environmental Protection: prevention/control of pollution and habitat or environmental disruption during construction.
- .3    Invasive alien species: A species that is alien to the ecosystem in which it is found, but capable of reproducing and may have adverse effects on the economy, the environment or human health (e.g., phragmite). In addition to plants, this type of pest includes certain animals, fungi and microorganisms that also pose a threat to biodiversity.
- .4    Species at risk: Wildlife species either fauna or flora which is legally protected under la Loi sur la conservation et la mise en valeur de la faune (Québec) and/or the Species at risk Act (Canada).

**1.3                CONTRACTOR OBLIGATIONS**

- .1    ECCC holds environmental permits for the planned work. The Contractor shall comply with the requirements of the conditions associated with each environmental permit :
  - .1    Temporary permit subjected to Canada Wildlife Act (R.S.C., 1985, c. W-9) and issued under Article 4 of Wildlife Area Regulations (C.R.C., c. 1609);
- .2    The work must be completed to the satisfaction of the Departmental Representative regarding standards and environmental regulations. The Contractor shall comply with the environmental guidelines of this analysis and this must include the costs associated with these requirements.
- .3    The Contractor must ensure that his work complies with:
  - .1    The laws and legislation of the municipal environmental provincial and federal authorities;

- .2 The requirements established in this specification;
  - .3 The requirements associated with each of the conditions of the environmental permits;
  - .4 To the other standards and guidelines that may be established by the Departmental Representative.
- .4 In the event of work not planned and stated in the environmental permits, the Contractor must, in addition to notifying and obtaining the consent of the of Departmental Representative, obtain from organizations concerned authorizations and permissions necessary to complete his work. Costs and delays related to compliance and enforcement of environmental requirements contained in these licenses and permits will be provided and borne entirely by the Contractor.

#### **1.4 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Submit in accordance with Section 01 33 00- Submittal Procedures.
- .2 Product Data:
  - .1 Submit manufacturer's instructions, printed product literature and data sheets.
  - .2 Submit 2 copies of WHMIS MSDS in accordance with 01 35 29.06- Health and Safety Requirements.
- .3 Before commencing construction activities or delivery of materials to site, submit Environmental Protection Plan for review and approval by Departmental Representative .
- .4 Environmental Protection Plan must include comprehensive overview of known or potential environmental issues to be addressed during construction.
- .5 Address topics at level of detail commensurate with environmental issues and required construction tasks.
- .6 Include in Environmental Protection Plan:
  - .1 Name of persons responsible for ensuring adherence to Environmental Protection Plan.
  - .2 Work area plan showing proposed activity in each portion of area and identifying areas of limited use or non-use.
    - .1 A plan of the work area showing the activities planned in each part of the work area and indicating the areas of restricted use and the prohibited areas of use. This plan shall include measures to mark the boundaries of usable areas and methods of protection of the elements within authorized work areas to be preserved.
  - .3 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.
  - .4 A cutting and plant protection plan. This plan must be approved by the Departmental Representative prior to the commencement of site clearing.
  - .5 Drawings showing the location of temporary excavations or site trails in embankments, watercourse crossings, materials, constructions, sanitary

installations, deposits of surplus materials or contaminated materials; The drawings illustrating the methods that will be used to control runoff and to confine the materials to the site.

- .6 Spill Control Plan to include procedures, instructions, and reports to be used in the event of unforeseen spill of regulated substance.
- .7 Non-hazardous and hazardous solid waste disposal methods and locations for solid waste disposal including clearing debris.
- .8 Detailing provisions to assure that dust, debris, materials, and trash, are contained on project site.
- .9 Potentially hazardous substances to be used on job site; intended actions to prevent introduction of such materials into air, water, or ground; and detailing provisions for compliance with Federal, Provincial, and Municipal laws and regulations for storage and handling of these materials.
- .10 Imported material used on site must come from authorized borrow pits and quarries, be clean and free of invasive species and contaminant

## **1.5 SITE PREPARATION AND MOBILIZATION**

- .1 Work and storage areas delineation must be approved by the Departmental Representative before construction begins. The contractor must ensure that the limits are visible throughout the work.
- .2 If the site facilities are located within 30 meters of a lake, watercourse or wetland:
  - .1 These facilities must be located as far away as possible from watercourses or wetlands.
  - .2 Limit volumes of hazardous materials and hydrocarbon on site.
  - .3 Hazardous materials and hydrocarbons may be stored on site in a impermeable container with a minimum volume equivalent to 110% of the MD or hydrocarbon content of the device or the capacity of the tank or container.
  - .4 The container must be protected from the rain and not accumulate precipitation.
  - .5 In the event of a bad weather or sudden flood, hazardous materials and hydrocarbons must be removed from the site.
- .3 Ensure that there will be no storage of materials, no machinery traffic, no trenching or other unauthorized intervention that may damage or modify lakes and intermittent or permanent watercourses, their respective shorelines and flood plains; or adjacent or isolated wetlands (ponds, marshes, swamps or peatlands).
- .4 All stationary equipment (generators, fuel tanks, etc.) must be placed on a waterproof and absorbent membrane to prevent any contamination of the soil by leaks or accidental oil spills.
- .5 Access to the various sites will be limited to the use of the existing trail
- .6 Site facilities must also meet the requirements of Section 01 52 00 - Construction Site Facilities.

## **1.6 FIRES**

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

**1.7 DRAINAGE**

- .1 Excavation and soil reclamation should be done during good weather, with no rain.
- .2 Provide temporary drainage and pumping required to keep excavations and site free from water.
- .3 Ensure pumped water into waterways, sewer or drainage systems is free of suspended materials.
- .4 Excavated soil must be directly transported off-site or stored on waterproof tarpaulins otherwise transported off-site. If soils are stored on site, limit storage time and protect them from the weather, if any.
- .5 Materials imported to the site and put in place during construction must be clean and free from invasive alien species.

**1.8 EROSION AND SEDIMENT CONTROL**

- .1 Provide Erosion and Sediment Control Plan identifying type and location of erosion and sediment controls provided to prevent soil loss from stormwater runoff or wind erosion, and the entrainment of that soil over properties and pathways. Ensure plan includes monitoring and reporting requirements to assure that control measures are in compliance federal, provincial and municipal regulations.
  - .1 The Erosion and Sediment Control Plan shall include sediment barriers to prevent runoff from carrying fine particulates into the water of the marsh or Mado Creek during any period of time.
  - .2 Sediment barrier must be installed above the high-water mark.
  - .3 The Erosion and Sediment Control Plan shall be approved by the Departmental Representative before construction begins.
- .2 Inspect and maintain maintenance and repair if necessary, during the whole construction period.
- .3 The Contractor must maintain, or add if necessary, temporary environmental measures during evenings and weekends to avoid any risk of erosion outside working hours.
- .4 Remove erosion control measures and timely recondition and stabilize the surfaces disturbed by this work.
- .5 Work likely to expose the soil must be carried out under appropriate weather (low wind, sunshine, etc.) in order to minimize the dispersion of soil particles.

**1.9 SITE CLEARING AND PLANT PROTECTION**

- .1 Stripping, tree pruning and cutting should be kept to a minimum. Only trees that interfere with the work can be felled. Trees to be felled must be identified and authorized by the Departmental Representative.
- .2 Restricting period
  - .1 Carry out forest clearing work outside nesting period, which is between April 10<sup>th</sup> and August 31<sup>st</sup> for most species in southern Quebec. Bird, eggs and nests

are legally protected. Working during nesting period implies that nests and nestlings must be protected until they have left the nest.

- .3 Ensure the protection of trees and plants on the site and on adjacent properties, as indicated.
  - .1 Protect trees and shrubs adjacent to construction sites, storage areas and trucking lanes.
  - .2 The canopy of butternut trees will be demarcated and protected with rigid and visible markers. The protective radius will have to be respected for the duration of the work.
  - .3 No butternut will be cut or affected by the work.
  - .4 Southern wildrice (*Zizania aquatica*) colonies will be demarcated and no work or passage of machinery will be permitted.
- .4 If the Contractor damages vegetation outside of the intended easement, it must be replaced at its own expense.
- .5 The felling of trees and shrubs must be carried out in accordance with Section 31 11 00 - Clearing and wiping.
- .6 Remove trees only in areas designated in the contractual documents and previously authorized by the Department's Representative.
- .7 Felling should be done so as not to damage the surrounding trees and shrubs to be conserved.
- .8 During excavation and earthmoving, protect the roots of the designated trees to the drip line so that they are not moved or damaged.
  - .1 Avoid circulating and unloading or storing materials unnecessarily over the root zone of protected trees.
- .9 Preserve trees in the Mado Creek banks.

#### **1.10 COMMON REED CONTROL**

- .1 Special procedures must be implemented in order to avoid the propagation of the common reed.
  - .1 Avoid walking on foot or with machinery in common reed.
  - .2 Contractor shall clean all machinery that will be brought on the site so that it is free plant fragments
  - .3 Contractor shall clean all machinery before leaving the construction area.
  - .4 Brush clothing and all equipment on site before leaving work site.

#### **1.11 WORK ADJACENT TO WATERWAYS**

- .1 This section applies:
  - .1 At the shoreline and banks of Mado Creek and the marsh of Digue-aux-Aigrettes (area extending from the high water mark to the center of the body of water);

- .2 Throughout the duration of the work, the Contractor must ensure that every person under his responsibility takes all necessary measures to protect aquatic, wetland and riparian environments.
- .3 Work in the riparian strip or in the water must be done in the presence of the Departmental Representative.
- .4 Any temporary installation for the movement of machinery near watercourses shall be designed and constructed to minimize erosion, while complying with the requirements of Section 01 52 00 - Construction Site Facilities.
- .5 Measures must be in place to contain and recover debris before it reaches the marsh or creek. Pay attention to limit the movement of particles in the water when removing the facilities.
- .6 No material can be piled in the aquatic environment and on the banks.
- .7 No borrow material to be collected from the marsh nor the creek.
- .8 Ensure that any material to be excavated and exported outside aquatic, wetland and riparian environments is replaced by a material in accordance with the contract documents and approved by the Departmental Representative.
- .9 Arrange for excavated material to be free of contamination, including topsoil contamination, so that when they are put back in place, they do not contaminate any body of water.

#### 1.12 FAUNA PROTECTION

- .1 The work area is a suitable habitat for Blanding's turtle, a protected species at risk. Third party preparatory work for the protection of the species will have been done prior construction begins.
  - .1 The Contractor must ensure, at all times, to avoid traveling within the turtle nesting area identified near the site.
  - .2 In the event of a fortuitous discovery of a nest with young turtles, the Contractor must stop the work and inform the Departmental Representative for an emergency relocation protocol to be implemented.
  - .3 Do not touch or handle young turtles.
  - .4 When the machinery is moving outside the work area, it will always be accompanied by a signalman to ensure that no turtles cross the trail at this time. In the presence of a turtle, the machinery will have to wait. The signalman will have to document the presence of turtles.

- .2 No later than March 1st 2022, the contractor must put in place an exclusion fence (sediment barrier, the lower part of which is backfilled). This barrier must be installed at the outer perimeter of the site fence as well as on both side of the access road located between the parking lot and the work area, to the satisfaction of the representative of the ministry To ensure the safety of workers, visitors and animals, stop traffic or machinery when wild animals are present on the site.

- .1 The Contractor shall ensure that the exclusion fence does not obstruct access to the site by the public.

- .3 Provide a safe escape route for the animal and keep a safe distance.
- .4 Observe at a distance, without approach, to avoid any disturbance or perception of harassment.
- .5 Contact the Canadian Wildlife Service – Quebec Region of Environment and Climate Change Canada for advice or support as needed.

**1.13 POLLUTION CONTROL**

- .1 It is prohibited to discharge waste materials into the environment in any way.
- .2 Focus on the use of products with the least adverse effects on the environment and human health.
- .3 Maintain temporary erosion and pollution control features installed under this Contract.
- .4 Control emissions from equipment in accordance with local authorities' emission requirements.
- .5 Prevent sandblasting and other extraneous materials from contaminating air and waterways beyond application area.
- .6 Cover or wet down dry materials and rubbish to prevent blowing dust and debris. Provide dust control for temporary roads.
- .7 Cover the waste materials with a geotextile or geogrid to prevent the wind from lifting dust or debris.
- .8 Recycling and reuse of residues and unused materials should be promoted.
- .9 Accumulation of solid waste on site will be avoided. The waste materials will be stored in appropriate containers and will be evacuated frequently to a disposal site authorized by the MELCC. Solid waste and dry materials will be managed in accordance with the requirements of the Règlement sur l'enfouissement et l'incinération de matières résiduelles.
- .10 All necessary measures shall be taken to minimize the suspension and transport of fine particles. Any accidental spill of concrete will be picked up and disposed. Concrete residues (dry or liquid materials) will be contained and placed in an authorized site.
- .11 It is prohibited to discharge waste materials into the environment in any way.

**1.14 MACHINERY USE**

- .1 Prior to transporting machinery and equipment to the work site, they must have been properly cleaned to minimize the risk of hydrocarbon contamination of the site. Excess oil or grease should be removed.
- .2 The equipment cleaning site must be more than 30 m from any wet or aquatic environment.
- .3 Use the smallest equipment possible to undertake the works.
- .4 Machinery and equipment used within 15 m of the marsh must be equipped with hydraulic systems using biodegradable vegetable oil and be in good condition.
- .5 Refueling and maintenance of machinery



- .1 A preliminary then weekly inspection of the machinery and equipment used will be carried out to ensure that they are in good condition, clean and free from any leakage of oil or other contaminants. Depending on the equipment and its use, the inspection should be done daily or weekly. Their exhaust and emission systems will also be inspected and repaired as needed.
- .2 Use machinery and equipment that is well maintained and in clean and good conditions and exempt of leaks. Repair immediately or exclude from the site.
- .3 The maintenance, refueling and cleaning of machinery and equipment containing petroleum products must be carried out on a site designed for this purpose where there is no risk of contamination of soil surface and groundwater. The surface of this site must be impermeable and have the capacity to contain all hydrocarbons in the event of spills or leaks. All these activities must be carried out under the constant supervision of the Contractor.
- .4 Place machinery on impermeable mats before refueling or use containment device to contain any spills.
- .5 Set up a sludge recovery bed at the exit of the site.
- .6 Access roads used by transport vehicles will be cleaned throughout the duration of the work to remove any accumulations of dust and debris.
- .7 Maintenance and refueling must be done at the location designated by the Departmental Representative in accordance with Section 01 52 00 - Construction Site Facilities. When refueling, the Contractor must take all necessary precautions to prevent accidental spills, regardless of the size of the spill.
- .6 It is forbidden to leave isolated machinery or gasoline equipment in a watercourse, or within 15 m of it, during the hours of closure of the site unless it is on an impermeable surface.
- .7 The Contractor is required to:
  - .1 Avoid idling any vehicle, equipment and machinery when not in use.
  - .2 Repair without delay equipment and machinery that produces excessive gas emissions, visible in the exhaust.
  - .3 Maintain the equipment's antipollution system in good condition.
- .8 The Contractor shall control noise levels from the site by the following measures:
  - .1 Noisy equipment must be equipped with silencers or a noise-canceling device that is functional at all times. The good condition of each of these equipments will be checked.
  - .2 Avoid slamming of rear panels.
  - .3 Promote the use of equipment generating a low level of noise / vibration (eg hydraulic equipment).
- .9 The Contractor is required to comply with the municipality's requirements for noise protection.
- .10 Noise levels must be respected the MELCC noise guidelines (for construction work):
  - .1 between 7h and 19h: 55 dBA LAr 12h, or the baseline noise level if it is higher.
  - .2 between 19h and 7h: 45 dBA LAr 1h, or the baseline noise level if it is higher.

- .11 It is forbidden to drive with the machine outside the working identity identified in the contract documents.

#### **1.15 HAZARDOUS MATERIAL AND HYDROCARBON MANAGEMENT**

- .1 Good practices must be adopted to prevent the release of oil and other hazardous materials into water from machinery or equipment.
- .2 Petroleum products and hazardous materials must be stored, handled and used with care on a stable and impervious surface which is inaccessible after construction hours.
- .3 Containment tanks (capacity of 125% of tank volume or equipment) will be used for all stationary equipment and machinery located near the marsh. Inspect tanks during rainy periods to prevent overflowing.
- .4 As needed, sample and treat water contained in containment tanks prior to discharge to a watercourse, sewer system or drainage system to meet MELCC criteria for surface water quality (protection of aquatic life - acute effect) and CMM regulation number 2008-47. Contractor to obtain authorisation from the Departmental Representative before discharging anything into the environment.
- .5 Be careful not to dispose of, spill or release organic or inorganic materials or petroleum products and their by-products (antifreeze or solvent) on the ground or in streams.
- .6 Make all arrangements, build all necessary facilities and use appropriate mitigation measures to prevent contamination of lakes and streams with new, used or excavated materials on site.
- .7 An environmental emergency intervention kit must be present on site, close to all work done near watercourse. The Contractor must have several kits on site if he decides to work simultaneously at different locations. Following the use of some or all of the contents of a kit, the Contractor must ensure that the elements used are immediately replaced so that the kit remains complete and ready for use.
- .8 The intervention kit must include containment rod, absorbent rolls, sphagnum moss, and related containers and accessories (gloves, etc.) essential to cover minor spills recovery, storage of soiled equipment and management of contaminated materials. The kit must have enough absorbent rollers to contain the petroleum products contained in the machinery involved.
- .9 As a result of any leakage or spilling of petroleum products (including hydraulic fluids) or other liquid hazardous materials, regardless of the quantity spilled, the Contractor shall immediately take the following actions:
  - .1 secure the premises;
  - .2 extinguish all sources of ignition;
  - .3 stop loss, leakage or spill at source;
  - .4 inform the Departmental Representative;
  - .5 immediately notify Urgence-Environnement at 1-866-694-5454. The telephone number must be posted on the job site and must be entered into the cell phone contacts of the site personnel;

- .6 contain spilled material with appropriate material (granular absorbent, sheet or coil, etc.);
- .7 unless an emergency service indicates another procedure to be followed, the Contractor must put in place absorbent sheets or coils to contain the maximum amount of product. Soiled absorbent material should be collected and temporarily stored in leakproof containers;
- .10 The Contractor is responsible for paying all costs for decontamination and disposal of contaminated soil following a spill or leak of a contaminant directly or indirectly from its activities. The Contractor shall dispose of the contaminated material to a site duly authorized by the MELCC. The available evidence must be sent to the Departmental Representative.
- .11 It is forbidden to mix contaminated soil with clean soil or soil less contaminated in order to have a less restrictive way of disposing of the contaminant.
- .12 Hazardous waste materials will be stored in sealed identified containers and loaded to a temporary and secure storage area located on the site, before disposal in an authorized MELCC site; all in accordance with the Règlement sur les matières dangereuses.
- .13 Used oil must be recovered, placed in barrels, identified and disposed of along with residual hazardous materials to a recycler that has been approved by the MELCC.
- .14 The development and implementation of Spill Contingency Plan will be included in the Environmental Protection Plan. Workers will have access to Managers contacts and alert procedure.

#### **1.16 TREATED WOOD MANAGEMENT**

- .1 Contractor shall manage treated wood in accordance with the Guidelines for Treated Wood Management (MDDELCC, 2011).
- .2 All treated wood debris shall be temporarily stored in tight containers prior their disposal in an authorized treatment site.
- .3 Treated wood storage on site shall not extend five (5) working days.
- .4 If possible, the temporary treated wood storage shall be located at more than 30 metres from the marsh, within the site boundary.

#### **1.17 SOIL INTRODUCTION**

- .1 If the Contractor intends to use soil from outside for backfilling, earthworks or seeding, he must send soil characterization results to the Departmental Representative to ensure that they are free of contaminants.
  - .1 Soil from different origin must be analyzed and characterized separately.
  - .2 Characterization shall be carried out by a laboratory accredited by the Center of Expertise in Environmental Analysis of Quebec (CEAEQ) for the parameters to be analyzed.
  - .3 All characterization must be carried out in accordance with the Land Characterization Guide as well as the specifications of the MELCC Sampling Guide for Environmental Analyzes;

- .4 The results must make it possible to ensure the conformity of each soil to the use for which it is intended.
- .5 The Contractor must pay the analysis fees.
- .6 Soils may be brought to the site and used for the purpose for which they are intended following the written approval of the Departmental Representative.
- .2 The introduced soils must also be subjected to various tests before their use in the work, according to the indications of the different technical sections of this specification.

### **1.18 RECLAMATION OF THE WORK AREA**

- .1 Proceed as soon as possible and as work progresses to restore disturbed areas (eg, stabilization and revegetation of exposed soil). Restorative elements must ensure that the environment is equivalent to or better than the situation prior to the intervention.
- .2 Site reclamation shall be done in accordance with Section 32 92 19.13 - Mechanical Seeding, to the satisfaction of the Departmental Representative.

### **1.19 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 Take action only 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.

## **Part 3 Execution**

### **3.1 CLEANING**

- .1 Progress Cleaning: clean in accordance with Section 01 74 11- Cleaning .
  - .1 Leave Work area clean at end of each day.
- .2 Ensure public waterways, storm and sanitary sewers remain free of waste and volatile materials disposal.

- .3 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11- Cleaning .
- .4 Waste Management: separate waste materials for reuse recycling in accordance with 01 74 19- Waste Management and Disposal .
  - .1 Remove recycling containers and bins from site and dispose of materials at appropriate facility.

### **3.2 SNOW DISPOSAL**

- .1 Refer to section 01 74 11 – Cleaning
- .2 Keel all access road free of ice and snow. Snow from the work area shall be disposed by the Contractor in a MELCC authorized site in agreement with the Departmental Representative.
- .3 No snow shall be stored in the marsh.

**END OF SECTION**

**Part 1          General**

**1.1            RELATED CONNECTIONS**

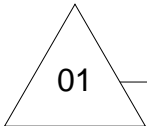
- .1      Canadian Standards Association (CSA International)
  - .1      CSA-0121, Douglas Fir Plywood.
  - .2      CAN/CSA-S269.2, Access Scaffolding for Construction Purposes.
  - .3      CAN/CSA-Z321, Signs and Symbols for the Occupational Environment.

**1.2            ACTION AND INFORMATIONAL SUBMITTALS**

- .1      Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.

**1.3            INSTALLATION AND REMOVAL**

- .1      Prepare site plan indicating proposed location and dimensions of area to be fenced and used by Contractor, number of trailers to be used, avenues of ingress/egress to fenced area and details of fence installation.
- .2      All areas subject to the circulation of machinery must be covered with a geotextile membrane and 150 mm of gravel to prevent tracking of mud. This requirement also applies to the access road between the parking lot and the work area.
- .3      Indicate use of supplemental or other staging area.
- .4      Provide construction facilities in order to execute work expeditiously.
- .5      The work site must be secured by the contractor at the end of every work day.
- .6      Remove from site all such work after use.



**1.4            SCAFFOLDING**

- .1      Scaffolding in accordance with CAN/CSA-S269.2.
- .2      Provide and maintain scaffolding ramps ladders swing staging platforms temporary stairs.

**1.5            HOISTING**

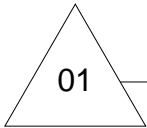
- .1      If required, provide, operate and maintain hoists cranes required for moving of workers, materials and equipment. Make financial arrangements with Subcontractors for their use of hoists.
- .2      Hoists cranes to be operated by qualified operator.

**1.6            SITE STORAGE/LOADING**

- .1      Confine work and operations of employees by Contract Documents. Do not unreasonably encumber premises with products.
- .2      Do not load or permit to load any part of Work with weight or force that will endanger Work.

### 1.7 CONSTRUCTION PARKING

- .1 An area proximity to the work site will be identified to be used by the Contractor for parking. This area will be in the Digue-aux-aigrettes parking located approximately 150m from the work site.
- .2 No non-essential vehicles will be tolerated on the work site. The contractor must provide an adapted mode of transport between the parking and the site.
- .3 The contractor must at all times limit their use of the parking lot to four (4) parking spaces. The rest of the parking lot must be exclusively dedicated to site users



### 1.8 USAGE OF TRAVEL LANES

- .1 Install and maintain lanes in order to provide access to the work site.
- .2 The contractor must provide signalers when using travel lanes outside the work area that are accessible to the public.
- .3 Traffic between the Digue-aux-Aigrettes parking area and the work site shall be kept to a minimum to minimize deterioration on the access road.
- .4 No storage will be tolerated on the travel lanes.

### 1.9 SECURITY

- .1 Due to the location of the work site, the contractor has the responsibility to ensure the security on the work site.
- .2 Hire reliable security personnel to ensure, after work hours and during holidays, proper surveillance of the work site and the materials, and incur the costs.

### 1.10 PROTECTION AND MAINTENANCE OF TRAFFIC

- .1 A grass road will be available to the Contractor to access the work area. The Contractor shall use it to access the work site and to maintain and maintain it during the work, at his own expense.
- .2 Protect travelling public from damage to person and property.
- .3 Contractor's traffic on roads selected for hauling material to and from site to interfere as little as possible with public traffic.
- .4 Verify adequacy of existing roads and allowable load limit on these roads. Contractor: responsible for repair of damage to roads caused by construction operations.
- .5 Provide necessary lighting, signs, barricades, and distinctive markings for safe movement of traffic.
- .6 Take the necessary steps to remove dust to ensure the safe conduct of activities at all times.

### 1.11 OFFICE

- .1 Provide a ventilated office, heated to a temperature of 22 degrees Celsius, equipped with lighting fixtures providing a luminance level of 750 lux and sufficient dimensions to allow the holding of site meetings, and provide a table for the spreading of the drawings.
- .2 Provide complete and identified first aid kit and store in an easy access location.

**1.12 EQUIPMENT, TOOL AND MATERIALS STORAGE**

- .1 Provide and maintain, in clean and orderly condition, lockable weatherproof sheds for storage of tools, equipment and materials.
- .2 Locate materials not required to be stored in weatherproof sheds on site in manner to cause least interference with work activities.

**1.13 SANITARY INSTALLATIONS**

- .1 Provide sanitary facilities for workers in accordance with the relevant ordinances and regulations.
- .2 Display the required notices and take all precautions required by the local health authorities. Keep the premises and the area clean.

**1.14 CONSTRUCTION SIGNAGE**

- .1 No other signs or advertisements, other than warning signs, are permitted on site.
- .2 Signs and notices for safety and instruction in both official languages Graphic symbols to CAN/CSA-Z321.
- .3 Maintain approved signs and notices in good condition for duration of project, and dispose of off site on completion of project or earlier if directed by Departmental Representative.

**1.15 CLEAN-UP**

- .1 Remove construction debris, waste materials, packaging material from work site daily.
- .2 Clean dirt or mud tracked onto paved or surfaced roadways.
- .3 Store materials resulting from demolition activities that are salvageable.
- .4 Stack stored new or salvaged material not in construction facilities.

**Part 2 Products**

**2.1 NOT USED**

- .1 Not Used.

**Part 3 Execution**

**3.1 NOT USED**

- .1 Not Used.

**END OF SECTION**