



MISTAGANCE CAMPGROUND AREA, « C » LOOP

EARTHWORKS AND FOUNDATIONS FOR TWELVE (12) SITES OF "OTENTIK" TENT

SPECIFICATIONS

Ref.: 15792

OCTOBER 14TH, 2014



PARKS CANADA LA MAURICIE NATIONAL PARK



EARTHWORKS AND FOUNDATIONS FOR TWELVE (12) SITES OF "OTENTIK" TENT

MISTAGANCE CAMPGROUND AREA, « C » LOOP

SPECIFICATIONS

FOR BID OCTOBER 14TH, 2014 DATE: **OCTOBER 14TH, 2014** DO NOT USE FOR CONSTRUCTION 2014.10.14 PREPARED BY: APPROUVED BY: Stéphane Isabe Amenagement

VERIFIED BY

REFERENCES: PROJECT N°/C:

PROJECT N/N°: 15792

Fichier: 15792PRapp001_GDevis_EN.doc CONSULTANTS MESAR INC.

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1.0 GENERAL INSTRUCTIONS

1.1 INTERPRETATION



- .1 The words, terms and abbreviations with known technical or professional signification, must be understood with the meaning carried out in these specifications and drawings.
- .2 The dimensions shown on the drawings or scope or represented by a module or lines, arrows or otherwise, should be given priority priority on the drawings.
- .3 The large-scale drawings take precedence over those on a smaller scale. In addition, priority is given to the most up-to-date specifications and drawings.
- .4 When there is no match between the numerical dimensions shown on the drawings, reference must be made to the Agency Representative to obtain applicable dimensions.
- .5 All discrepancies between the specifications and drawings must be submitted in writing to the Agency Representative, to obtain a written final decision.
- The specifications and drawings are complementary so that what is required by one is also required by the other. The structure to be built, in accordance with the specifications and drawings, must be a complete work in its essential parts which must include all items arising from specifications and drawings, even if these items are not all specifically mentioned. The Contractor shall not take advantage, at the expense of the agency, of any manifestly unintentional error or omission that he could find. When the quality of work or material is not specifically indicated, the concerned trades must provide de best quality.
- .7 The Agency Representative may, for clarification purposes only, provides the Contractor additional drawings to ensure proper execution of work. These drawings will have the same meaning and the same scope as if they were part of the drawings mentioned on the contractual documents.

1.2 SCOPE OF WORK



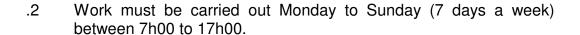
- .1 The Work covered by this contract include mainly, but not limited to:
 - .1 The development of twelve (12) sites where the oTENTik tents are to be built at the La Mauricie National Park of Canada. The oTENTik tents will offer users confort during three (3) seasons. The work is planned in the "C" loop of the Mistagance Campground area.
 - .2 Supplying, transporting and implementing of:
 - gravel 0 to ³/₄ (MG 20);
 - stone dust (sifted stone);
 - geotextile (membrane).
- .2 In a particular way, the work includes:
 - .1 <u>Land developpement for oTENTik tents</u>
 - .1 Deforestation, excavation, removal and disposal of stumps, trees and branches. The disposal should be done in an accredited site outside the La Mauricie National Park.
 - .2 Excavation of 6 inches (150 mm) of gravel for the 12 sites and reuse if necessary for the grading of the field (area of 50 feet X 50 feet) (15,24 m x 15,24 m).
 - .3 Recovery of top soil to rehabilitate the sites.
 - .4 The construction of stilts will be done on the oTENTik tents sites. Stilts construction includes piles and wooden ties installation where the floor structure of the oTENTik will be placed. Each oTENTik tent will rest on 9 piles and 3 wooden ties. The piles must be buried at a depth of 5 feet (1,5 m) according to the drawing attached. The wooden ties must be leveled and perfectly squared. Piles, wooden ties, screws, brackets and anchors for piles on the rock are provided by Parks Canada.



- .5 The Installation of rock anchors will be required before the rock profile will reach 5 feet in depth (standard) into the ground, as specified by Parks Canada. The rock anchor is mandatory regardless of the rock depth between 0 and 5 feet (0 and 1,5 meter).
- .6 At two locations, there are existing drains (HDPE pipe) across the field whose diameters are 200 and 300 mm respectively. These pipes must be changed to HDPE R-320 with the same diameter at the same location. Vermin proof screens may be reused if possible, otherwise, new vermin proof screens will have to be provided and installed.
- .7 The wooden ties of the tent will measure 24 feet (7,32 m) in order to install the tent and porch floor at 5 feet (1,5 m) in depth.
- .8 6 inches (150 mm) of natural gravel 0 to $\frac{3}{4}$ (MG 20) will be placed below the oTENTik tents area (20 feet x 24 feet) (6,1 m x 7,32 m).
- .9 The leveling of the parking area and the placing of 3 inches (75 mm) of compacted gravel at 0 à ¾ (MG 20) (area of 12 feet X 50 feet for each parking) (3,66 m x 15,24 m).
- .10 New signposts (4 X 4) will be placed at the edge of the road for the new oTENTik tents sites.
- .11 If additional material is required, only the project manager of Parks Canada can authorize any extras to the contract.
- .12 Final cleaning and leveling.

1.3 WORK SCHEDULE

.1 The work must be completed within six (6) weeks following the contract award.





.3 The Contractor may have his own lighting system and extend a few hours a day for site operations.

SAFETY MEASURES

- .1 The Contractor must ensure that the work complies with the requirements of the Canadian Construction and Safety Code, provincial government, the Compensation Board (C.S.S.T.) and all other requirements referenced.
- .2 The Contractor is responsible (at his own expense) for the health and safety of people on site, as well as the protection of property located on site; is also responsible, in adjacent areas to the site, of the protection of people and of the environment insofar as they are affected by the work.

1.5 LAWS AND REGULATIONS

- .1 The Contractor must comply with all provincial, municipal or federal laws, and any other laws or regulations relating to this work. The Contractor is responsible for all deviations of the following laws and regulations, which will require specific attention:
 - Canada National Parks Act:
 - Canada Environmental Protection Act.

1.6 USE OF PREMISES BY THE CONTRACTOR

- .1 Restrict the use to areas specified by the Agency Representative for the execution of the work and storage.
- .2 Do not unduly accumulate any materials or equipment so that it can clutter the premises.
- .3 Move stored materials or equipment that can impair the work of the Agency Representative or any other Contractor.



- .4 Throughout the duration of the work, do not use the construction site or elsewhere on the property of the Agency for lodging or temporary residence for the employees of the Contractor.
- .5 After obtaining the required authorizations, assume costs of storage area use or any additional work required for development work and storage area rehabilitation.
- .6 The « C » loop will be closed to the public and also to the Park.
- .7 The Contractor must ensure snow removal from the entrance of the Jackson Lake Road to the construction site at the "C" loop of the Mistagance campground during the entire construction period.

1.7 NOTICE OF INITIATION OF CONSTRUCTION SITE

- .1 The Contractor must complete and submit to the Representative of the Agency certification and proof of compliance with health and safety requirements.
- .2 The Contractor must produce and deliver to the Representative of the Agency a mitigation plan.

1.8 <u>CONSTRUCTION SITE</u>

- .1 Trucks and all the machinery must be in good working condition to avoid any leakage of oil, grease or fuel. Equipments emitting noise and exhaust gas level above normal must be repaired or modified to make them acceptable.
- .2 Copy of each of the documents must be kept on site:
 - .1 Contractual drawings, specifications and addendum.
 - .2 Complementary notes and drawings.
 - .3 Change Orders.
 - .4 Approved schedule for the entire work.

1.9 GEOTECHNICAL INVESTIGATION (SURVEYS)

No survey of soil investigation has been carried out on work site.

The Contractor is responsible of establishing the type of soil to be excavated and the rock depth.



In the places where there are rocky outcrops, the Contractor must do his own searches in order to determine the proper height of the piles into the ground and the anchors application into the ground.

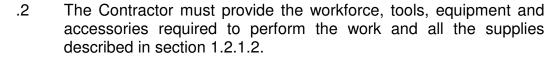
No additional costs will be paid by the Owner if rock is encountered.

1.10 LUMP-SUM CONTRACT

- .1 The work is paid at an inclusive price, which means that the Contractor agrees to do the job for a single price at a loss or gain. The price must includes, all work, disbursements, expenses, payments, direct or indirect costs, profits and all liabilities, obligations, acts, facts, omissions or errors attributable to the Contractor for this work.
- .2 The overall price also includes transportation and implementation of materials, as well as all overhead costs of the company, administration, insurance, contributions, interest, rent, taxes and all other incidental expenses.
- .3 It must cover the losses and damages that may result from the work, the prices and wages fluctuations, business risk, strikes, delays beyond the control of the Agency, accidents, environmental causes and any other casualty.
- .4 It is mandatory for the Contractor to submit detailed delivery orders (weight certificate and equipment description for each delivery) up to the amount of quantities listed in 1.2.1.2.
- .5 Parks Canada will make the payment upon receipt of the final invoice after acceptance of the work.

1.11 MATERIAL SUPPLY

.1 The Contractor must, at all times, be able to demonstrate that the requirements for quality assurance are met.





.3 The Contractor must provide topsoil, geotextile, gravel 0-3/4 (MG-20), stone dust, anchoring systems for fire places and BBQ, signposts at the entrance of the sites and cement curbs for fireplaces (62 in. X 62 in) (1,57 m x 1,57 m).

1.12 WASTE MATERIAL

.1 The Contractor must dispose of all refuse material, waste, stumps and scrap material to a location authorized by the Parks Canada engineer, Mauricie Management unit.

1.13 TRANSPORTATION/HANDLING/STORAGE

- .1 The Contractor must pay the costs of transportation, unloading, handling and storage and material required for the execution of the work.
- .2 Material likely to be damaged by the weather must be kept in an weatherproof enclosure.
- .3 The Contractor must load and transport the piles, the wooden ties, accessories and hardware for stilts construction. Piles and wooden ties are stored at 2141 chemin Saint-Paul at Saint-Mathieu-du-Parc (backyard operational center), located at 5 kilometers from the Park entrance.

1.14 LIABILITY INSURANCE

.1 The Contractor must provide a proof of liability insurance of five (5) million \$ for the contract award.

END

2.0 EXECUTION OF WORK

2.1 VISUAL INSPECTION



- .1 The field visit is essential (MANDATORY) to become familiar with the project conditions and to gather all the information necessary for the bid evaluation and to the proper performance of the contract. Ignorance of site conditions will not, under any circumstances, be a valid reason to claim payment or any extra.
- .2 In the course of the bidding process, a site visit will be organized.

2.2 <u>IMPLEMENTATION</u>

Refer to Section 1.2 « Work Description ».

.1 <u>Preparatory work</u>

.1 Each site has been staked by the Owner in order to locate the space required for the work location.

All furniture (tables and fireplaces) and concrete blocks will be removed from the site by the Contractor and set aside where indicated by the representative of the Owner. It will be placed in the storage yard at the operational center located before the Park, 2141, chemin Saint-Paul, Saint-Mathieu-du-Parc (5 km from the Park entrance). Replacement will be done by the Park in spring.

- .2 Do earth-working in accordance with the bid documents to ensure their compliance with requirements.
- .3 Excavation of 150 mm of crushed gravel on the surface of the sites in order to be stored and reused for the sites grading (50 ft x 50 ft) (15,24 m x 15,24 m).
- .4 Recovery of topsoil to rehabilitate the sites.

.2 Rock anchors



.1 The piles are buried at a 5 feet depth (1,5 meters) using a drill, with a consolidated granular material base for the general piles installation.

In the presence of rock, piles must be built using rock anchors. To do so, the Contractor must be required to make excavations and explorations for each location before starting the work in order to determine the profile of the rock in place.

All piles whose base will be composed of less than 5 feet (1,5 meter) of backfill material from the ground level, must be anchored to the rock, and then backfilled with granular materials (MG 112) and densified. Excavation material must be approved by an engineer.

Anchors installation and piles fixation on the rock will be as such as the structure specifications on drawing 15792-2001.

2.3 DEVELOPMENT OF SITE EXTREMITIES AND SLOPE STABILIZATION

.1 The Contractor must use recovered topsoil for the development of site extremities and the slope stabilization. In the case where slopes are steep, the removal of stumps and overburden must be limited in order to preserve the stabilization.

In some cases where the slope is very steep and in areas prone to erosion, vegetation alone will not ensure adequate and immediate stabilization on a disturbed surface. Therefore, mechanical stabilization in these areas is needed. Mechanical stabilization must includes, if necessary, the proper use of appropriate geotextiles with rip-rap 4"-8" (see Park Canada drawing in the appendix).

Geotextile membrane must be used as a filter to keep any fine particles within the slope and to prevent erosion.

2.4 FINAL CLEANING AND LEVELING



- .1 At substantial completion of work, remove surplus materials, tools and equipment and construction materials that are no longer necessary for the implementation of the remaining work.
- .2 When work is completed, the Contractor must remove from work site not only his equipment but unused material, waste, refuse, stones, rubble and wood debris, stumps or roots; clean material and equipment sites; repair or rebuild fences and other necessary structures that have been demolished or damaged and dispose of all material in a way not to exceed the work area and related work. Finally the Contractor, must repair all damage that he has caused on the work site, public or private property affected by its work, on storage or supply material sites, on environment and forest land.

2.5 INFORMATION REQUEST

.1 Anyone wishing to obtain technical information must contact:

Product development officer Parks Canada, Mauricie Management Unit 702,5° Rue Shawinigan (Québec) G9N 1E9

To the attention of Jean-François Villemure 819 536-2638, ext. 234 819 244-1162 (cellphone) jean-francois.villemure@pc.gc.ca

.2 Anyone interested in submitting a bid for the work described in this specification and wants to obtain administrative information should be directed to:

Officer, Market, Supply and Management Material Parks Canada, Mauricie Management Unit 2141, chemin St-Paul Saint-Mathieu-du-Parc (Québec) G0X 1N0 To the attention of Patrice Déry 819 536-2638, ext. 240 819 536-3661 (Fax) patrice.dery@pc.gc.ca



3.0 LIST OF DRAWINGS

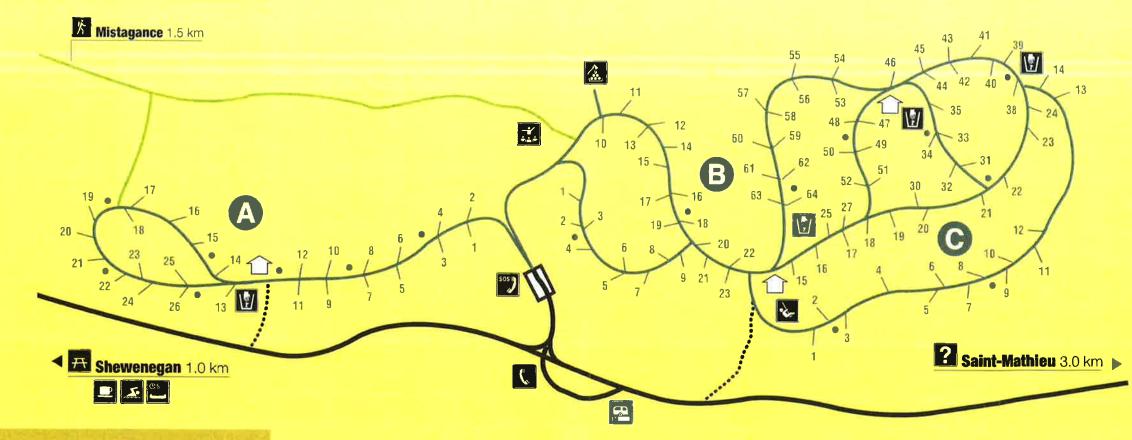


PLAN N°	DESCRIPTION
15792-9000	Plan View
15792-9001	Site C-1 Plan View and Profile
15792-9002	Site C-17 Plan View and Profile
15792-9003	Site C-4 Plan View and Profile
15792-9004	Site C-5 Plan View and Profile
15792-9005	Site C-7 Plan View and Profile
15792-9006	Site C-8 Plan View and Profile
15792-9007	Site C-10 Plan View and Profile
15792-9008	Site C-12 Plan View and Profile
15792-9009	Site C-13 Plan View and Profile
15792-9010	Site C-14 Plan View and Profile
15792-9011	Site B-38 Plan View and Profile
15792-9012	Site B-39 Plan View and Profile

END



La Mauricie National Park



Légende / Legend

- Sortie d'urgence / Emergency exit
- Centre d'accueil / Visitor Reception Centre
- Sentier de randonnée / Hiking Trail
- Baignade / Swimming
- Pique-nique / Picnicking
- Location d'embarcations / Boat Rental

- Kiosque / Kiosk
- Casse-croûte / Snack-bar
- ** Amphithéâtre / Amphitheatre
- ·ç-Terrain de jeux / Playground
- Bois à brûler / Firewood
- Point d'eau / Water outlet

- Toilettes et douches / Toilets and Showers
- Téléphone / Telephone
- Téléphone d'urgence / Emergency Telephone
- Contenant à déchet / Litter container
 - Poste de vidange / Trailer Dumping



oTENTik Tent Example











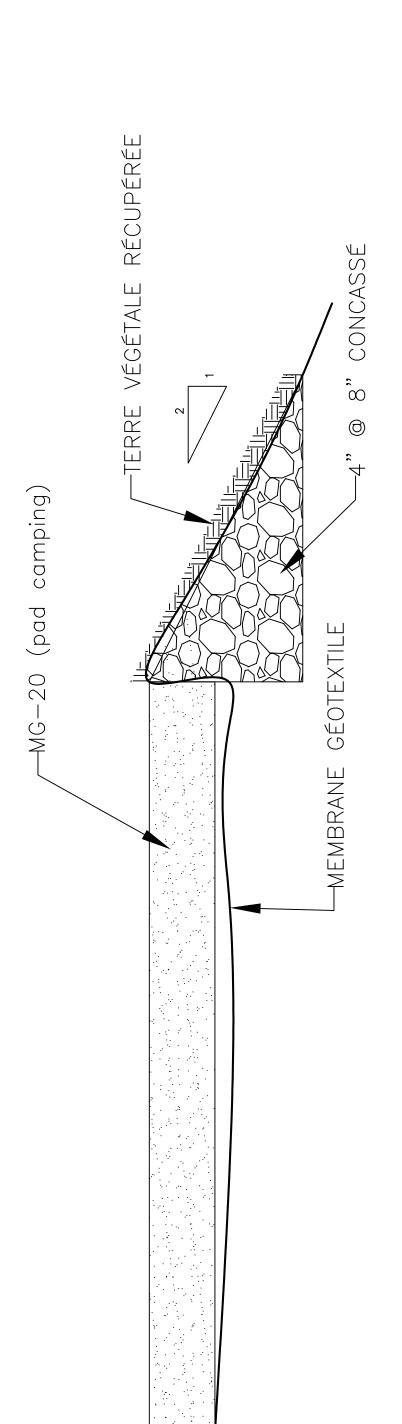


SCHÉMA #1 Stabilisation des talus

