

Trout Brook Campground Siteworks (5P201-18-0105/A)
ADDENDUM #3

Questions:

1. **Clarification of Drawings** – The drawings show fencing along the coastline is the responsibility of this earthworks contract; however, this work will be completed by Parks Canada so it can be removed from the scope of work.

2. **Question: Building Description Legend, Drawing C-102 :**

C – New Water Treatment

D – New Solar Equipment Building

shows they are included but no details for the buildings.

Answer: The exterior of the buildings will be installed by Parks Canada and its basic dimensions have been included in this package, all interior plumbing, electrical, equipment arrangement, ventilation required to operate the new water treatment and solar equipment systems must be provided by the contractor along with any penetrations into or out of the building to attach to the new water, sewer or electrical connections are to be included in this earthworks contract scope of work. The Contractor will also be required to supply basic lighting requirements, outlets, panels, etc. required to operate these new buildings as part of their scope of work. The interior building finish work such as walls, painting, etc. will be provided by Parks Canada and will be coordinated with the Contractor to ensure they can install their electrical, plumbing and ventilation at the most appropriate time where possible.

D - Solar equipment building.

This is to be constructed in the existing building, Building H. Please refer to drawing E-103, detail 2. The locations of the equipment in the Battery Room will depend upon the equipment selected by the contractor. The design was based on the use of eight 6 Volt batteries: Rolls 6CS27P. They're 286 mm wide and 559 mm deep, so allowing for a gap between each battery, they would take up floor space of approximately 2400 mm x 559 mm. They could be stacked on a rack to reduce the floor space to approximately 1200 mm x 559 mm. The drawing assumes a 1-tier storage rack, and shows an allocation of 700 mm x 2500 mm. This is likely the largest single component in the room, and a minimum clearance of 1 metre in front of the rack is required. Assuming that there are no devices mounted on the interior wall that faces the batteries, then that new partition wall in Building H should be at least 1700 mm from the exterior wall opposite. This dimension may vary based on the components chosen by the contractor and how they are oriented in the space, consequently, the contractor should confirm all equipment sizes and locations before proceeding. The new partition wall shall extend the full width of the existing building, as shown.

3. **Question: Summary of work, Item # 22, notes topsoil / hydroseed not included. Is it included in the tender for the disposal system details? Note 1, Drawing C102, states it's included.**

Answer: This contract requires hydroseeding to be provided at the new septic field location and its surrounding disturbed area. All other hydroseeding throughout this site will be completed by Parks Canada

4. **Question: Is the asphalt apron included? We do not think it should be because the Class A on roads and parking is by others (Note 5, C102).**

Answer: No asphalt apron work is required as part of this contract.

5. **Question: Are 2 culverts included in the tender as per notes at rock lined ditch, Drawing C104?**

Answer: The 2 culverts are not included in this tender package this work will be completed by others.

6. **Question: Is there a generator pad detail?**

Answer: The generator pad and load bank pad are to be constructed by the contractor as a design build to suit the requirements of the new generator and load bank which will also be supplied as part of the scope of work in this project. The tender documents do not specify a particular generator model, so the contractor's selection will govern the ultimate size of the pad. The pad should also accommodate the load bank on the same pad: the structural detail should be sufficient for both devices as the load-bank will likely be less heavy than the generator and its base-mounted fuel tank. Generally speaking, the pad should meet the following minimum requirements it should extend a minimum of 150mm (6") beyond the edge of the equipment, and should have a chamfered edge around the perimeter. The orientation of the generator and the load-bank can be adjusted at the contractor's discretion to suit the site, and to minimize pad size. There must be a minimum of 1 metre separation between each device in accordance with electrical code rule 2-308. The electrical sub-contractor will be familiar with this rule and can advise the general on how to orient the equipment. The separation between equipment can be reduced to less than 1 metre, but the manufacturer of each device may specify a minimum clearance due to the heat that each one will produce. Note also that cables leaving both devices will pass through the slab and will need to pass through PVC sleeves in the slab. The concrete shall not be poured directly in contact with the cables.

7. **Clarification:** The filter sand to be used as part of the septic field is to meet the following minimum requirements:

3.3.3 Filter Sand and Sloping Sand Filter Material The following requirements apply to:

- The layer of sand (filter sand) installed under the crushed rock in all systems
- The sand used to construct a sloping sand filter

This material shall:

- be a washed concrete sand that meets the current ASTM-33 or CSA A23.1 specifications or
- be a naturally occurring or washed sand or recycled crushed glass having a permeability, as placed on site, between 0.0001 and 0.0005 m/second as determined by the falling head permeability test (Appendix B) and have a maximum particle size of 25 mm.

The other definition of sand included in the current specifications is to be used as the requirement for the electrical pipe and duct bank acceptable bedding material definition.

8. **Additional Scope of Work** – This addendum has also added to the original scope of work the addition of concrete pads (and footings as indicated) for 2 washroom buildings, 1 picnic shelter and 1 interpretive center. The drawings and specifications for this work have been provided with this addendum and the contractor is responsible to provide all materials, equipment and labour to install these 4 new building slabs, and their associated piping through the slabs where appropriate. This additional work should be included in the lump sum pricing for this contract.
9. **Question: Water Treatment System, Section 22 31 13.01. We do not have a Water analysis for the raw water. Can this be made available?**
Answer: The raw water data has been provided with this addendum.
10. **Question: Water Treatment System, Section 22 31 13.01, Part 2 – PRODUCTS, Part 2.7 -- Turbidity/Sediment Filters. The Proposed PP filter housing is rated for 90PSI will this be acceptable?**
Answer: This is not acceptable. Although this is downstream of the proposed 70-90 pressure switch and expansion tank, the selected PP filter housing should be rated for a pressure in excess of 90 PSI to allow for a factor of safety.
11. **Question: Water Treatment System, Section 22 31 13.01, Part 2 – PRODUCTS, Part 2.10 – Water Softener Our proposed service flow rate on the control valve is 28GPM @ 15PSI. (Valve attached) will this be acceptable?**
Answer: It is expected that at a lesser flow rate, the pressure loss is reduced. This is acceptable.
12. **Question: Water Treatment System, Section 22 31 13.01, Part 2 – PRODUCTS What is the selected brine?**
Answer: Brine is to be selected based on regenerant requirements of selected softening resin.
13. **Question: Water Treatment System, Section 22 31 13.01, Part 2 – PRODUCTS, Part 2.11 – Booster Pumps, in regards to service flow rate and suction lift; this section doesn't indicate if the application requires these numbers or if they are simply the maximum's that the booster can provide. Is this referring to MAX suction lift (8m) and MAX flow rate (2 l/s)?**
Answer: These values are the maximum values to be provided by the selected booster pump. The suction lift is expected to be the difference between the booster pump install elevation and the input piping elevation, which is to be less than 8m in difference.. The flow rate is expected to be a peak of 1 l/s.