

## **Amendment 02 – 2015-04-20**

### **1. Optional Site Visit**

The following is a record of the site visit which occurred on Thursday April 16, 2015 from 10:00 AM (EST) to 12:30 PM (EST).

#### Attendees:

Scott Gauthier, Parks Canada Agency (Departmental Representative)

William Grandy, EXP Services Inc. (Design Consultant)

Mike McCourt, Xterra Construction

Harri Neher, HPN Engineering

Hugh Glass, Ontario Construction

Patrick Archibald, Cimota

Philip Jenkins, 7305516 Canada Ltd. O/A Canadyne Navigation

Dave Gallagher, Galcon Marine

Rick Rossi, 1490668 Ontario Inc.

Robert D. Skelly, Skelly General Contracting

#### Areas viewed by representatives:

1) Hastings Dam 18 at Lock 18

2) Healey Falls Dam 17 at Lock 17

3) Glen Ross Dam 7 at Lock 7

#### Discussion items:

Attendees met the Departmental Representative at the dam at 10:00 AM at Hastings Dam and signed in on an attendance sheet. A copy of the sheet is attached.

The scope of work, design and project extents were discussed in general. Tender close date, schedule and bid submission instructions were reiterated from the Invitation to Tender package.

The intent of the project was indicated as being to improve public safety for boaters on the waterway proximate to Parks Canada's dams.

All work is to occur after July 1, 2015 due to warm water (fish spawning) restrictions.

The Departmental Representative brought to the bidders' attention that as indicated in the specifications, hoisting and rigging is required to complete work. The weight of concrete block in-water anchors in particular was discussed. Concrete anchors must be pre-cast off site. Casting on-site or including in-water concrete pouring is not permitted. The steel loop in the top of each concrete anchor block intended for boom anchor chain attachment is also rated for hoisting.

The marker buoy attachment as detailed on drawings was discussed. Marker buoys serve a dual purpose in the design. Buoys raise the visibility of the boom while keeping the boom anchor chain afloat during installation as well as in the future if the boom line ever detaches from the anchor chain.

Parks Canada supply of materials was discussed. Parks Canada is supplying all boom floatation units, interconnecting chain lengths and connectors as well as marker buoys. The Contractor must transport the items from Parks Canada's maintenance yard to the 3 contract sites. Refer to questions and answers for further details.

Environmental site requirements were discussed. Where concrete shoreline anchors are to be installed, a silt fence on the shoreline and turbidity curtain in the water will be required. No stockpiling of removed or new backfill material is permitted on site. A land use occupancy permit is required to work on the shoreline park area at Hastings.

Site access was discussed. Note that at the 3 contract sites no specific site security procedures are required. The Contractor will be granted unlimited access to all 3 contract sites with the understanding that dams must remain accessible to Parks Canada operators at all times. Staging work off of dams is not permitted.

The meeting moved to Healey Falls and finally Glen Ross where shorter discussions were held. Site access and the scope of work at each site was discussed in general. Discussions about contract administration were not repeated.

## **2. Questions and Answers**

This amendment is issued to answer questions from potential bidders and provide information from the optional site visit as follows.

***Bidders Inquiry: Does Parks Canada have a forklift available at the booms and buoys pick-up location?***

***Similar questions asked:***

*Is the Contractor responsible for handling of the booms and buoys at the pick-up location?*

**Parks Canada Departmental Representative Response:**

Please disregard response made at Hastings portion of job showing. The Contractor will be responsible for all hoisting, handling and transport of materials supplied by Parks Canada from the pick-up location to each of the 3 contract sites and secure storage at the 3 sites. This includes the booms, buoys and associated chains and interconnecting hardware. Parks Canada will provide access to maintenance yard in Campbellford, Ontario to pick-up the materials on the requested date(s).

***Bidders Inquiry: How are the booms and buoys packed at Parks Canada's maintenance yard?***

**Parks Canada Departmental Representative Response:**

Booms are shrink wrapped and packed on double sided wood pallet skids. Pallets are 1.2m (4ft) x 3m (10ft) x 2.3m (7'-6") high bundles. There are 15 booms per pallet. 132 total booms.

Chain lengths and hardware are stored in boxes on a 1.2m (4ft) x 1.2m (4ft) x 1.5m (5ft) pallet.

Buoys are packed individually on wood pallet skids. Pallets are 1.2m (4ft) x 1.2m (4ft)

***Bidders Inquiry: How heavy are the booms and buoys?***

**Parks Canada Departmental Representative Response:**

Each pallet of booms weighs approximately 1000kg (2,200lbs).

Individual booms are 400mm (16") in diameter and 3m (10ft) long weighing 64kg (140lbs).

Each buoy weighs 114kg (250lbs). There are 15 in total.

***Bidders Inquiry: What is the spacing between boom units?***

**Parks Canada Departmental Representative Response:**

Refer to drawings. The spacing between float units is 1m clear. Chain between boom units is provided by Parks Canada.

***Bidders Inquiry: Can the flows at the dams be reduced during completion of work?***

**Parks Canada Departmental Representative Response:**

Yes. The execution of work is to be a cooperative process between the Contractor and Parks Canada's dam operators. In most cases, Parks Canada operations staff will be able to oblige. The intention on this contract is for Parks Canada to attempt to reduce or adjust flow paths such that work can be completed more safely. Parks Canada's ability to manipulate flows will depend on the duration of planned work and flow conditions at the time of work. This topic will be discussed in detail during the pre-commencement meeting and scheduling phase of the contract prior to commencement of work. Parks Canada will require minimum 1 week advanced notice of intended working dates to be able to respond to flow adjustment requests. No work will be permitted at any of the contract sites without notice and prior consultation made to Parks Canada water management staff. In the unlikely event of unseasonal or abnormal flow conditions, such as a flood, re-scheduling of work may be required.

***Bidder's Inquiry: Is there navigation info and canal clearances information available for the Contractor?***

***Similar questions asked:***

*How wide are the locks on the TSW?*

*What is the lowest bridge height on the TSW?*

*How much is the lockage fee for a single lockage?*

*Will a barge fit in the locks?*

### **Parks Canada Departmental Representative Response:**

Locks in the Trent Severn Waterway (TSW) are numbered from 1 to 45 beginning at Lock 1 from the southern end in Trenton, Ontario and increase heading north to Lock 45 in Port Severn, Ontario.

Dams are located proximate to locks in most cases. Hastings Dam is located near Lock 18. Healey Falls Dam near Lock 17. Glen Ross near Lock 7.

The general average depth of channels from Locks 1 to 20 of the Trent Severn Waterway is 2.4m. The lowest bridge height is 6.7metres (22ft) during navigation.

Navigational charts indicating water depths in the areas of the 3 contract dam sites are provided with this tender amendment.

Consultant EXP Services also conducted bathymetric surveys proximate to each of the 3 contract dam sites during design. These surveys consisted of spot elevations taken along a grid for a specified distance from the upstream face of each dam. Information from these surveys can be made available upon request prior to commencement of work. The river bed elevations at anchor points provided on the drawings were derived from these bathymetric readings and are assumed to be sufficient data for bidding purposes. Bidders are advised that riverbed depths and water levels provided are approximate and naturally can vary. As with all dimensions provided on drawings, the Contractor is responsible for confirming water depths for navigation and anchor chain length determination during completion of work. Current water level readings will be provided by Parks Canada during the course of work.

The Contractor will be responsible for confirming clearances for all vehicles and equipment including watercraft to be used in completion of work. Prior to commencement of work, the Contractor must submit information on all vessels to be used. All watercraft must meet necessary Transport Canada regulatory certifications and is subject to Departmental Representative approval. Note that in particular vessels exceeding 68 metric Tonnes (75 Tons) may require special consideration by lock operations staff.

For comparative purposes note that the largest commercial vessel that navigates through the Trent Severn Waterway is the Kwartha Voyageur based out of Peterborough, Ontario. This tour vessel is quite large and regularly navigates the Trent Severn Waterway and Rideau Canals via the locks.

<http://www.ontariowaterwaycruises.com/>



Above Photo: Kwartha Voyageur entering Glen Ross Lock 7, the narrowest lock in the Southern Sector of the TSW.

Information regarding Parks Canada's Trent Severn Waterway (TSW) is available to the public online. Note that several sources of information regarding the TSW are available on the internet through sources other than Parks Canada; however, Parks Canada cannot attest to their accuracy. A list of official Parks Canada links that may be helpful in planning for this project are listed below.

Parks Canada TSW 'Visiting by Boat' Main Website Page

<http://www.pc.gc.ca/eng/lhn-nhs/on/trentsevern/visit/visit1.aspx>

Sub-links to pages of interest:

Hours of Operation

<http://www.pc.gc.ca/eng/lhn-nhs/on/trentsevern/visit/visit3.aspx>

Individual Lock station Information (lock dimensions, lift height, etc.)

<http://www.pc.gc.ca/eng/lhn-nhs/on/trentsevern/visit/visit6.aspx>

Navigation Facts (Vessel Passage Restrictions, lock dimensions, etc.)

<http://www.pc.gc.ca/eng/lhn-nhs/on/trentsevern/visit/visit5.aspx>

Fee Schedule and permits purchase information

[http://www.pc.gc.ca/lhn-nhs/on/trentsevern/visit/tarifs\\_fees\\_e.asp?park=102](http://www.pc.gc.ca/lhn-nhs/on/trentsevern/visit/tarifs_fees_e.asp?park=102)

Locking through safely video

<http://www.pc.gc.ca/eng/lhn-nhs/on/trentsevern/visit/visit10.aspx>

### **3. Other Items**

Item 1.0) Please add 'Marine Liability Insurance' to contract insurance requirements. Refer to revised insurance certificate attached for details on coverage requirements.

Item 2.0) Drawings Revisions. See attached drawings revised as noted.