

Amendment 005

- 1) Is there a take water permit required for this project and or has the owner applied for such permit.

***With drawdown period extended to November 20<sup>th</sup>, 2015, PWGSC is of the opinion that the cofferdam installation can be completed before raising of water levels. Subsequently, the water within the work area will be limited such that a Permit to Take Water is not required.***

- 2) a) The GFRP cannot be priced as a unit rate as it is a custom product and length quantity and number of bends effect price.

***Please see attachment 014 for a revised unit price table.***

b) There is also some 10m ties in section A/104 to my knowledge these are not possible to fabricate.

***The 10M ties shown on the DWGS can be fabricated as indicated. Please verify with available suppliers.***

c) Also there is epoxy reinforcing in the line and expansion posts but I don't see a bid item for it.

***Supply and installation of epoxy coated reinforcement for line and expansion post casting to be included in the per Unit "EACH" for the post fabrications.***

- 3) In order to provide more accurate price for dewatering and water shoring we require the following information for properly selecting a dewatering system:
  - a) How much leakage from the cofferdam is expected?

***This is dependent on the cofferdam system selected and used on site. Note that water levels based on the provided elevations will be approximately 0.5m-1.0m prior to freezing and typical ice thickness after freezing is 0.3m-0.6m. Minimal hydrostatic pressure is present during the winter months. Water infiltration into the work site should be easily controlled.***

b) What flow rate of water is expected to be pumped from the excavation/work area?

***This is dependent on the efficiency of the cofferdam system selected and used on site by contractor.***

c) Where are the pumps to be placed and where is the water to be pumped to? Elevations, distances, etc?

***To minimize ice conditions and interference with PCA/NCC skating surfaces, pumps and dewatering systems should be placed and or have pumped water out of the site at the work site extreme limits and close to the adjacent walls. Note that the water must be filtered as per PCA environmental measures listed in the BIA and must be directed below the ice without affecting the skating ice surface nearby.***

d) What is the depth of the sump pit for pumping?

***A limit of 1m below the approximate foundation slab of the existing wall can be used as a guide, but there is no specified depth. Contractor to determine depth based on requirements for specific site conditions at time of dewatering.***

- 4) Section 35 20 22, Item 1.4.3: Sediment and erosion control measures must be in conformance with related contract plans as a minimum, MOE, MNR and DFO permit approval requirements Section 35 20 22, Item 1.4.5: Obtain and pay costs of all required permits.

Question: Do we have to apply and get permits? How long time will take to get permits?]

***Refer to Environmental Basic Impact Assessment report provided by Parks Canada (PCA). PCA has a level 3 capacity to act in the place of DFO and no permits are required for DFO. All dewatering and sediment/erosion control measures to be submitted to PWGSC for review and approval. PCA will review. This is to include also submission of the cofferdam system for review by PCA and PWGSC prior to installation. No permit required from MNR for this project.***

- 5) Do we have to provide any electrical work during removal of existing and installation of new posts?

***Electrical work for capping off power lines and verifying that existing lamp posts outside of the work limits are not affected is expected to be included with the removal of the existing expansion posts with integrated lamps. Refer to Section 02 41 21, item 3.2.4. for details. Also refer to Section 01 51 00, item 1.9 – Temporary Power and light for additional electrical work within the work site.***