

PART 1 - GENERAL

1.1 DESCRIPTION

- .1 The work covered under this section includes the supply and installation of all labour and materials necessary for the following:
  - .1 Dewatering of the area of construction.
  - .2 Maintaining this area in a developed condition during construction.
- .2 The contractor shall submit a dewatering plan to the Departmental Representative for review and approval prior to construction and dewatering activities.
- .3 All work on the fishway repairs must be carried out in the dry unless noted on approved otherwise.
- .4 Water levels on the Exploits River are going to be manually adjusted by Nalcor Energy (NE) during a two-day period in October, 2016. During this short time limited water flow upstream will be entering the fishway. The dates of this lowering are tentatively scheduled for October 2<sup>nd</sup> and 3<sup>rd</sup>, but subject to change. During this time, it is going to be extremely critical to complete some of the new work items which will also require the completion of some critical preparatory work in advance. The Departmental Representative shall confirm exact dates of when the River water levels will be lowered within five (5) days following the contract award.
- .5 Dewater pools #1 and #6 as necessary to complete the new work. Dewatering may be required prior to, during and following the lowering of river water levels by NE. During past repair projects a lined sandbag style berm had limited effectiveness in controlling water flow into pool #5 and #6, under normal flow conditions. This being the case, some preparatory work that needs to be completed in advance of the water lowering by NE may have to be done underwater with divers. It is suggested following the construction of the new concrete sill at pool #6 that this area with stop logs can aid in the construction of a new temporary berm. This shall be confirmed by the Contractor as required.

1.2 CODES AND STANDARDS

- .1 Carry out all work in accordance with applicable Federal, Provincial and Municipal Codes and Regulations. In each and every instance of application, the Code, Regulation, Statute, By-Law, or specification having the most stringent requirements applies.

- 1.3 PERMITS AND FEES .1 Obtain and pay all permits and fees related to the work contained in this division of the specifications.
- 1.4 TEMPORARY BERMS .1 All work on the fishway reconstruction including demolition, must be carried out in the dry unless otherwise noted or approved by the Departmental Representative. Where berms are required to accomplish this, the design of such berms is to be carried out by a professional Engineer licensed to practice in Newfoundland and Labrador. Drawings of the berm design to be stamped by the Engineer and submitted to the Departmental Representative before any work commences.
- 1.5 MEASUREMENT FOR PAYMENT .1 Dewatering: No separate measurement for payment shall be made for items under this section. Include all costs for dewatering in the lump sum portion of the work on the Bid and Acceptance Form.

PART 2 - PRODUCTS

- 2.1 NOT USED .1 Not Used.

PART 3 - EXECUTION

- 3.1 DEWATERING .1 Contractor to determine what is required at this particular site to achieve dewatering of the area of construction. This may involve such things as:
- Utilization of sandbags
  - Bypass pumping
  - Construction of settling pond if siltation is a problem
  - installation of stop logs with impermeable membrane.
- .2 Any pumps and appurtenances used in dewatering are to be thoroughly cleaned and disinfected prior to use.
- .3 Dispose of water in a manner not detrimental to public health, environment, public or private property, or any portion of work completed or under construction. Comply with all requirements of the Department of Environment and Conservation and other regulatory agencies having jurisdiction regarding disposal of water.

- .4 The Contractor will be responsible to maintain, dewater devices/structures for the duration of time they are required.