



HIGHWAY CONTRACT: MTO 2010 - 5148

FEBRUARY 2011

## PROJECT OWNER

**Ontario Ministry of Transportation (MTO)**

Bot Construction was awarded General Contractor through lowest bid tender. Lea Consulting is the Contract Administrator. The project is part of the MTO's Northern Ontario Highway Program. For more information about the contract and the project completion date, contact MTO, Northeastern Region, North Bay, Ontario.

## STATUS: COMPLETED

## PROJECT DESCRIPTION

New construction and rehabilitation of two bridge structures on Highway 144, at 4.6 km South of Hwy 560 and at 31.5 km North of Highway 560 in the New Liskeard District, between Sudbury and Timmins. Construction of one new 24m steel girder structure over the East Sand River and demolition of the existing structure (1968). Rehabilitation, deck replacement, and widening of the 37m existing steel girder structure over the Makami River. Works also include grading, draining, granular base and hot mix paving.

## ACTIVITIES OF NOTE

The East Sand River site and the Makami River site are located some 30 km apart near the point of the 'watershed divide', with the East Sand flowing to the Great Lakes Basin and the Makami flowing north to the Hudson/James Bay Basin. The short duration contract requires an accelerated schedule for works in environmentally sensitive areas, with in-water work restrictions from April 1 – June 30. New bridge construction and widening works, and demolition of the existing structure over the East Sand River, will be staged to allow for traffic flow and highway maintenance operations over both bridges while construction is on-going. Work will be performed between sunset/sundown.

Activities include the installation of new deep foundation H-piles and in-water steel caissons for structure widening, forming for abutments and pier caps, complete removal of existing concrete deck and existing structural steel system, erection of 12 new structural steel girders, concrete pouring for bridge decks and asphalt surfacing. Support structures and protection systems will be installed to reinforce the existing bridge structure and to protect the existing roadway during construction. Contracted works also include minor realignments and asphalt resurfacing of the adjoining accesses to Hwy 144. Equipment operations will include excavators, pile drivers, cranes, loaders, graders, dozers and tri-axle dump trucks. Installation of habitat/ environmental protection measures will commence before construction, in winter conditions; a temporary, secondary platform will contain materials from demolition; concrete and asphalt debris will be recycled for granular road base and/or stockpiled by the owner for future use. Operations will be carried out under permit from DFO and MOE, and include measures for protection of SAR and migratory birds.

# BOT PROJECT PROFILE

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**BOT  
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