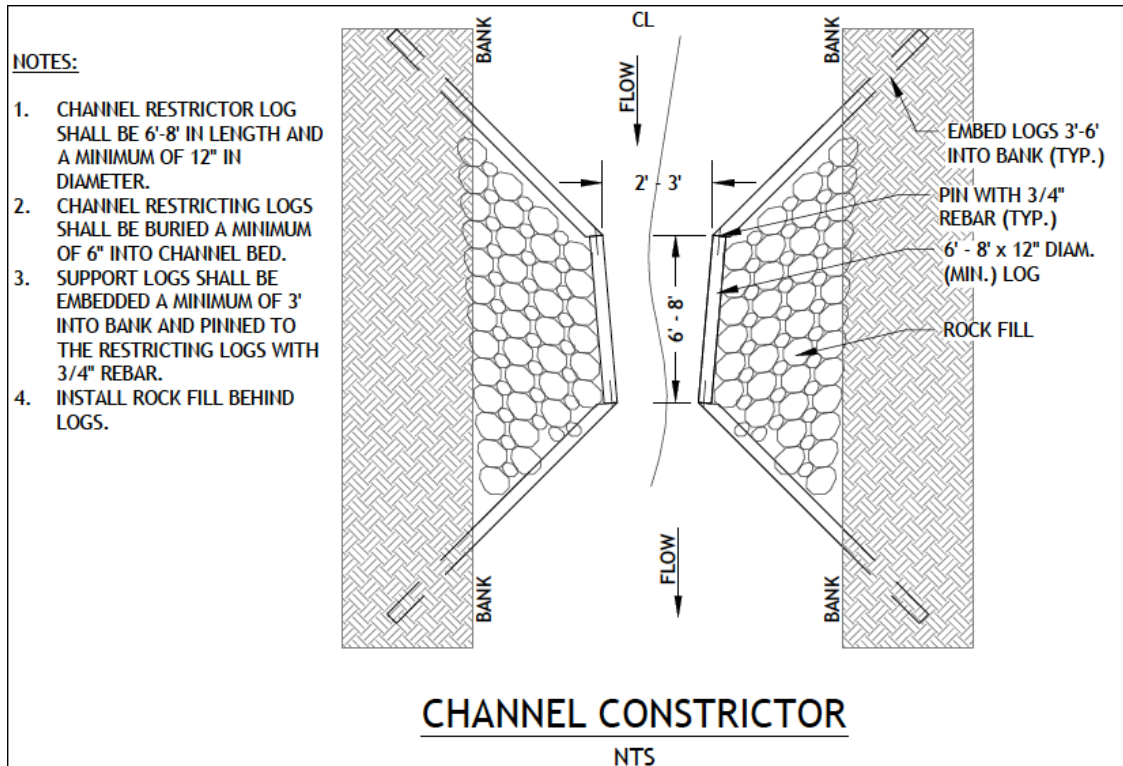


PATRICK C. GARNER CO., INC.
Northborough, Massachusetts

PROJECT SHEET:

NewBedford Regional Airport, New Bedford, Massachusetts



In 2011 Epsilon, Inc., retained Patrick C. Garner Co., Inc., to design more than 1,000 feet of relocated perennial river at the NewBedford Regional Airport in New Bedford, Mass. The intent of the redesign was to mimic the natural habitat and stream features found in adjacent riverways.

Given that the surrounding wetlands were low gradient, Garner designed the relocated river as a Rosgen E-type stream. Some of the features included a low flow channel, channel constrictors, submerged woody

shelters, cross vane structures, low flow check dams and a number of deep plunge pools set at appropriate intervals. Doing so met another team objective--to create a riffle-pool complex within the new stream.

Design was based on an analysis of soils types, hydrology, probable stream velocities and slope.

The project was reviewed, as required, by the Department of Environmental Protection (DEP) and approved for construction.