
Culvert Replacement a Popular Topic at MACC, March 2015



On February 28th CEI Senior Engineer and Stormwater Specialist, Mr. David Nyman presented a session on culvert replacement design at the 2015 Annual Environmental Conference hosted by the Massachusetts Association of Conservation Commissions in Worcester, MA. His presentation was an integral component of a workshop on Culvert Replacement Projects and Ecosystem Connectivity.



Many road/stream crossings present barriers to some degree to the passage of fish and other aquatic organisms. New crossings are now required to meet the Massachusetts River and Stream Crossing Standards. Replacement of substandard crossings offers opportunities to not only restore river and stream continuity, but also provide improved resilience to flood events. However, culvert replacement projects are complicated to design and can be difficult to permit.

The workshop reviewed the River and Stream Crossing Standards and relevant federal and state regulations and their application to culver replacement projects. Mr. Nyman's presentation - *Designing Stream Crossings for Wildlife Passage* - highlighted important considerations for the analysis, design, and construction of these types of projects.

Below is a link to the MassDOT's Handbook: Design of Bridges and Culverts for Wildlife Passage at Freshwater Streams that CEI assisted in developing.

<http://www.massdot.state.ma.us/Portals/8/docs/environmental/wetlands/WildlifePassagesBridgeDesign122710.pdf>

For more information on culvert replacement or for a copy of Mr. Nyman's presentation, please contact Dave directly at 508.281.5160 or dnyman@ceiengineers.com.

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