

## 2019 International ABC Conference – Pre-Conference Workshop

### W-01: Implementation of the 2018 AASHTO LRFD Guide Specifications for Accelerated Bridge Construction

Wednesday, December 11, 2019 – 8:00 a.m. to 12:00 p.m.

#### Introduction:

This workshop is a follow-up to the ABC-UTC pre-conference workshop held in 2017. The goal is to cover the design of common ABC details and methods including prefabricated deck connections, precast integral abutments, precast piers, and SPMT and lateral slide systems.

#### Workshop Organizer:

Michael P. Culmo, P.E., CME Associates, Inc.

#### Program:

8:00 a.m.	Welcome and Introduction to Workshop	Moderator – Michael Culmo, P.E.
8:05 a.m.	Overview of NCHRP Project 12-102 Reference Documents ABC Definitions	Michael Culmo, P.E.
8:25 a.m.	Designer & Contractor Responsibilities Tolerances (NCHRP Project 12-98) Design of Bridge Systems	Michael Culmo, P.E.
8:55 a.m.	Design Example: SPMT Dynamics	Michael Culmo, P.E.
9:40 a.m.	Design of Prefabricated Elements Design of Connections	Michael Culmo, P.E.
10:00 a.m.	<i>Break</i>	
10:15 a.m.	Design Example: Link Slab	Michael Culmo, P.E.
10:35 a.m.	Design Example: Precast Full-Depth Deck Panel with UHPC Connections	Michael Culmo, P.E.
10:55 a.m.	Design of Substructures Common Substructure Connections	Michael Culmo, P.E.
11:05 a.m.	Design Example: Integral Abutment	Michael Culmo, P.E.

11:25 a.m.	Design Example: Cantilever Abutment	Michael Culmo, P.E.
11:35 a.m.	Design Example: Pier Bent	Michael Culmo, P.E.
11:45 a.m.	Other ABC Technologies Deck Beams Modular Beams Railings and Barriers Steel Beams Seismic Detail Overview Miscellaneous Provisions	Michael Culmo, P.E.

### **Speaker & Bio, W-01: Implementation of the 2018 AASHTO LRFD Guide Specifications for Accelerated Bridge Construction**

**Mike Culmo, P.E.,** CME Associates, Inc., [culmo@cmeengineering.com](mailto:culmo@cmeengineering.com) (**Organizer & Moderator**)

Mike is a Bridge Engineer with over 35 years of experience in the design of steel, concrete, prestressed concrete and timber bridges. He has special expertise is in the field of accelerated bridge construction technologies and constructability engineering. He is the principal author of numerous publications in the field of Accelerated Bridge Construction including the 2018 AASHTO LRFD Guide Specifications for Accelerated Bridge Construction. Mike is a licensed professional engineer.