Certificate of Attendance for

Angel Taipe

Attended a one-hour webinar on August 22, 2019. The webinar was focused on accelerated bridge construction (ABC). It provided the latest news related to ABC nationwide and the featured presentation:

WSDOT's Alaskan Way Viaduct Replacement Project: SR-99 Seattle Tunnel Precast Deck

by Mark Gaines, P.E., State Bridge and Structures Engineer, Washington State DOT; Jim Parkins, P.E., Director of Marketing, Concrete Technology Corporation; and Tim Moore, P.E., S.E., Mega Projects Bridge Manager, WSDOT

Description: The Washington State Department of Transportation's SR-99 tunnel under the city of Seattle replaces the Alaskan Way Viaduct structure. This 9,270-foot-long bored tunnel begins south of downtown and ends at South Lake Union. Seattle Tunnel Partners was selected as the contractor for this design-build project, which opened to traffic in February 2019. Inside the tunnel is a two-level interior structure with northbound traffic running on the lower deck. The lower deck was converted from cast-in-place to precast construction as a value engineering solution to facilitate and accelerate the construction. The lower deck consists of 1,152 pieces of 14 ½-inch-deep by 8-ft-wide precast slabs that span 30 ft across the width of the tunnel. This is the state's first recent use of full-depth precast slabs, and it is the state's longest precast deck project to date. The webinar featured design, fabrication, and construction challenges of a prestressed deck project in a demanding tunnel project.

Sponsored by the Accelerated Bridge Construction University Transportation Center (ABC-UTC)

at Florida International University (FIU); www.abc-utc.fiu.edu

One-hour webinar