

Seminar

August 15-16, 2022

Seattle, Washington



CONSTRUCTION PRACTICES FOR SEGMENTAL CONCRETE BRIDGES

The purpose of this Seminar is to provide guidance for construction of concrete segmental bridges. Although the segmental construction concept is generally very simple, the construction technology involved is, in numerous ways, more demanding than that required for other types of technology used in the industry. The use of concrete segmental bridge construction continues to grow throughout the United States and Canada. Increased use of this technology has led to a need to provide industry standard information for use by contractors, inspectors, quality control staff, and owners. In the interest of educating the industry, sharing best practices, and standardizing methods, this Seminar is intended to provide a basic understanding of segmental construction technology. The overall goal is to facilitate the construction process, avoid common difficulties previously encountered, and reduce impacts to projects. The Construction Practices Handbook is intended to be an industry guide aimed at focusing on specific aspects of the technology based on past experience.

DAY 1

Morning Session

WELCOME AND ASBI COURSE INTRODUCTION

SEGMENTAL OVERVIEW

SESSION 1—PRECAST SEGMENTAL CONSTRUCTION

PRODUCTION OF PRECAST SEGMENTS

SPAN-BY-SPAN ERECTION

BALANCED CANTILEVER ERECTION

Afternoon Session

SESSION 2—CAST-IN-PLACE SEGMENTAL CONSTRUCTION

SESSION 3—SEGMENTAL DETAILS

GEOMETRY CONTROL

POST-TENSIONING DETAILS

SESSION 4—QUALITY AND INSPECTION

CONSTRUCTION INSPECTION

NBIS INSPECTION AND MAINTENANCE

SESSION 5—PROJECT SPOTLIGHT

SPECIALTY EQUIPMENT FOR SEGMENTAL BRIDGES

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DAY 2

Morning Session

SESSION 6—SPECIALIZED SEGMENTAL STRUCTURES
CABLE STAY
SEGMENTAL SUBSTRUCTURES
INCREMENTAL LAUNCH

SESSION 7—SEGMENTAL DISCUSSION
CONTRACTOR PERSPECTIVE/SPECIALTY EQUIPMENT
OWNER PANEL

Professional Engineering Development Hours

For Professional Engineers, we will provide certificates for 10 professional development hours on request for use in meeting Professional Engineering Registration requirements.