

Aesthetic Modifications of Precast Bridge Girders

Keith Kaufman Monday, September 24th, 2007 2007 Western Bridge Engineers' Seminar Session 4A







PCI

Western Bridge Engineers' Seminar

Introduction

- Northwest Bridge Engineers are Blessed with many Precast Bridge Shapes.....
 - Voided Slab
 - Box Beam

- Bulb I and Bulb T
- Deck Bulb Tee

Introduction



- Prestressed Tub
- Post-tensioned Trapezoidal Tub
- Dual Cell Box Beam (RR Application)
- Segmental Specific Sections

Scope of Discussion

• Thinking Outside the "Form"....

- Understand the Basic Precast Form.
- Can the Form be Modified?
- Can the Product be Stressed?
- Can the Product be Handled and Shipped?
- Can the Product be Erected?



Can the Product be Stressed?

C.G. OF PRESTRESSING STRANDS







Can the Product be Stressed?



Knife River's MOAB



P_{Jack} = 3 Million lbs. @ 4 feet Eccentricity



"Build It and They Will Come....", Session 6A.

















Can the Product be Erected?















Case Study – Newport



Case Study – Newport Ave.









Case Study – Thomas Creek









Case Study – Thomas Creek

SITE PHOTO TO BE ADDED



Case Study – McKenzie River Bridge









Segmental Spliced Girder

KARA RANK Dillard Bridge, OR – S. Umpqua River







Case Study – McKenzie River Bridge

BT90 and BT72 at Pier





Case Study – McKenzie River Bridge

Modified BT72 at Pier













Case Study- MLK







Case Study- MLK







Case Study – Cooks Chasm









Weiser, Idaho





What Can Precast Do For You? Contact Your Local Precaster.

Thank you...

Thank You! keith.kaufman@kniferiver.com