

Span by Span Erection of Precast Segmental Bridges

A Comprehensive Guide for Engineers and Contractors

Precast segmental bridges are becoming increasingly popular due to their many advantages, including their speed of construction, durability, and cost-effectiveness. The span by span erection method is a particularly efficient way to construct these bridges, and it is the focus of this comprehensive guide.

This guide covers the entire process of span by span erection of precast segmental bridges, from planning and design to construction and inspection. It is written by a team of experts with decades of experience in the field, and it is packed with practical advice and insights.



Span-by-Span Erection of Precast Segmental Bridges: Single-Girder Overhead Self-Launching Gantries

★★★★★ 5 out of 5

Language : English
File size : 10374 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 27 pages



The guide is divided into three parts:

1. Part I: Planning and Design

2. **Part II: Construction**

3. **Part III: Inspection and Maintenance**

Part I: Planning and Design

The first part of the guide covers the planning and design of span by span erected precast segmental bridges. It includes chapters on:

- Site selection
- Geotechnical investigation
- Bridge geometry
- Loads and load combinations
- Segment design
- Erection scheme design

Part II: Construction

The second part of the guide covers the construction of span by span erected precast segmental bridges. It includes chapters on:

- Segment fabrication
- Segment transportation
- Erection equipment
- Erection sequence
- Grouting and post-tensioning

Part III: Inspection and Maintenance

The third part of the guide covers the inspection and maintenance of span by span erected precast segmental bridges. It includes chapters on:

- Visual inspection
- Non-destructive testing
- Repair and rehabilitation

This comprehensive guide is an essential resource for engineers and contractors involved in the design, construction, and maintenance of span by span erected precast segmental bridges. It is also a valuable reference for students and researchers in the field of bridge engineering.

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Image alt attributes:

* **Image 1:** A photo of a precast segmental bridge being erected span by span. * **Image 2:** A diagram of the span by span erection process. *

Image 3: A photo of a completed precast segmental bridge.

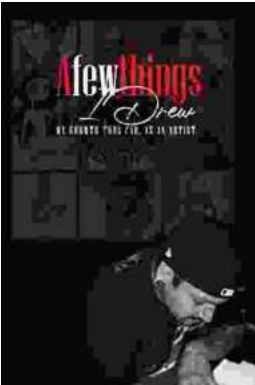
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