



BRIDGE PROJECTS

CASTING YARDS
PRECAST FORMWORK
KEY PROJECTS

*LONG BED
CASTING YARDS*

*SHORT BED
CASTING YARDS*

*PRECAST PIER HEAD
FORMWORK*

*PRECAST DECK
FORMWORK*



Bridge Design & Engineering Services





BRIDGE PROJECTS

CASTING YARDS & FORMWORK SYSTEMS

Wiecon Introduction

About Us

We don't just design bridges; we create engineering benchmarks that stand as testaments to innovation, precision, and excellence. With a legacy spanning three decades, we have emerged as leaders in the field of bridge engineering, driven by an unwavering commitment to pushing boundaries and exceeding expectations.

Our Approach

Our passion for bridge structures is matched only by our dedication to integrating cutting-edge designs and the latest technologies with our vast reservoir of experience and expertise. We provide comprehensive multi-disciplinary engineering consultancy services that encompass every facet of bridge engineering, construction processes, and project management.

30 Years of Excellence

With a rich portfolio spanning over 30 years, WIECON has been at the forefront of bridge engineering projects. Our in-house team of experts offers a diverse range of design services, including precast segmental, full-span erection, balanced cantilever, advanced shoring, incrementally launched, cable stay, suspension, and other specialized bridges. We handle projects from the initial preliminary studies and detailed design stages to the design of bridge construction equipment, major temporary works, and the supervision of the final erection stages.



Design & Engineering Services



Freeway No.1, Contract C911, Taoyuan County, Taiwan

Client:

Huang Chung Construction

Services:

- Construction Engineering
- Design of Precast Segmental Moulds
- Design of Long Bed Casting Yard
- Shop Drawings
- Project Planning
- Contractors Engineer
- Site Supervision

Specifications:

- Precast Segmental Construction
- Max Span: 75m
- Min Span: 40m
- Deck Width: 11.8m

Project Duration: 2010-2013



Full Span Girders, Taipei MRT Project, CE01B, Taiwan

Client:

DSI, Taiwan

Services:

- Construction Engineering
- Deck Formwork Casting Mould Design
- Detail Design
- Rebar & PT Shop Drawings
- Precast Forms Shop Drawings
- Contractors Engineer
- Casting Yard Design

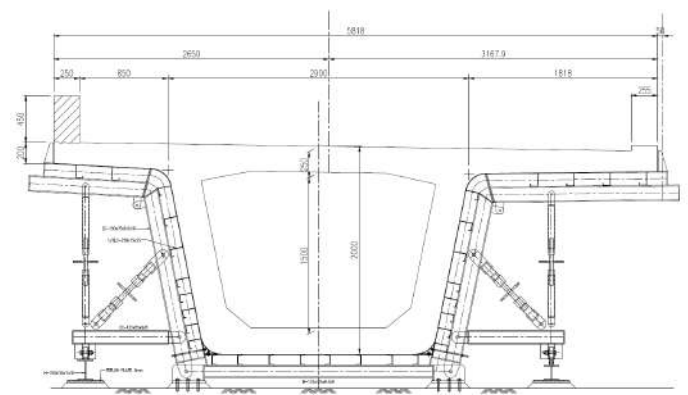


Specifications:

- **Deck Lengths:**
- Type A: 18m, 25m, 27.1m
- Type C: 30m
- Type D: 20m, 24.984m, 25m, 30m, 31.1m
- Type E: 30m, 31.1m
- Type F: 27.1m, 30m, 31.1m
- Type G: 25m, 30m
- Type K: 22.6m

- Deck Widths: 4.350m / 5.81m

- Deck Depth: 2m



Typical Deck Section

Project Duration:

2007-2008

Full Span Girders, Taipei MRT Project, CE01C, Taiwan

Client:

Hwang Chung Construction

Services:

- Construction Engineering
- PT Shop Drawings
- Casting Yard & Formwork Design
- Contractors Engineer

Specifications:

Unit No.	Spans (m)	Total Length (m)	Design Type
34	35+31.247	66.247	CIP 02
33	30+30	60	CIP 01
43	28+30+25+22	105	CIP 07
42	30+30+30	90	CIP 06
37	31+31+31.148	93.148	CIP 05
27	43+36	79	CIP 04
35	30+35+30	95	CIP 03
30	40+60+40	140	FCC 01
31	40+60+40	140	FCC 01
32	40+60+40	140	FCC 01
41	30+50+30	110	FCC 01
40	55.5+55.5	111	FCC 05
39	35+50+35	120	FCC 04
36	30+50+30	110	FCC 02
38	46+60+70+50	226	FCC 03
51	35+31.247	66.247	CIP 01
52	35+31.246	66.246	CIP 01
Total Project Length (m):		1817.9	
		(km) 1.8km	

- Deck Widths: 9.1m~17.36m

Project Duration:

2007-2008



Taipei MRT, Short Bed Casting Yard, Neihu Line, Taiwan

Client:

Kung Shin Contractors

Services:

- Precast Pier Cap Mould Design
- Construction Engineering
- Short Bed Casting Yard Design
- Contractors Engineer
- Site Supervision
- Project Planning
- Shop Drawings
- Temporary Works Design

Specifications:

- Four Short Bed Casting Moulds Designed to Produce 227 Precast Pier Head Segments.

Project Duration:

2004-2006



Taipei MRT, Long Bed Casting Yard, NeiHu Line, Taiwan

Client:

Kung Shin Contractors

Services:

- Precast Pier Cap Mould Design
- Construction Engineering
- Long Bed Casting Yard Design
- Contractors Engineer
- Site Supervision
- Project Planning
- Shop Drawings
- Temporary Works Design

Specifications:

- Two Long Bed Casting Moulds Designed for the Production of over 400 Precast Segments

Project Duration:

2004-2006



Full Span Girders, Taipei MRT Project, C206A, Tamshui Line, Taiwan

Client:

DORTS, Taiwan

Services:

- Construction Engineering
- Erection Equipment Design for the Elevated Section of the Tamshui Line
- Contractors Engineer
- Casting Yard Design
- Major Temporary Works Design
- Site Supervision

Specifications:

- Total Project Length: 9km
- Average Span Lengths: 9km
- Max Box Girder Weight: 320t

Project Duration:

2004-2006



Client:

Hwang Chang Construction

Services:

- Construction Engineering
- Short Bed Casting Yard Design
- Design of Precast Segmental Moulds
- Major Temporary Works Design
- Contractors Engineer
- Shop Drawings

Specifications:

- Precast Segmental Construction
- Total Project Length: 4.9km
- Min Span: 40m
- Max Span: 45m
- Deck width: 32m

Project Duration:

2001-2003



Expressway No.5, Taipei to Ilan, Contract C511, Taiwan

Client:

RSEA Engineering Corporation

Services:

- Construction Engineering
- Design of Precast Segmental Moulds
- Design of Short Bed Casting Yard
- Project Planning
- Contractors Engineer
- Site Supervision
- Shop Drawings

Specifications:

- Total Project Length: 30.8km
- Total Weight of Each Mould: 70t
- 7 Sets of Short Bed Casting Moulds
- 24mx2m Precast Segments

Project Duration:

2001-2002



Second Freeway Contract C376 Long Bed Casting Moulds, Taiwan

Client:

Hwang Chang Construction

Services:

- Construction Engineering
- Precast Mould Design
- Detail Design Drawings
- Long Bed Casting Yard Design
- Fabrication Inspection
- Contractors Engineer
- Shop Drawings
- Site Supervision

Specifications:

- Total Project Length: 3.66km
- Spans: 40m~50m
- Deck Width: 16m
- 8 Long Bed Casting Moulds for over 2300 Single Cell Precast Segments
- Casting Yard Layout & Design

Project Duration: 1996-2000



Second Freeway, Contract C383A, Taiwan

Client:

Pan Asia Contractors

Services:

- Construction Engineering
- Precast Mould Design
- Detail Design Drawings
- Precast Yard Design
- Fabrication Inspection
- Contractors Engineer
- Shop Drawings
- Major Temporary Works Design

Specifications:

- Total Project Length: 7.45km
- Max Span: 40
- Deck Width: 24m
- Long Bed Casting Moulds: 8 No.
- Short Bed Casting Moulds: 10 No.
- 80t Segment Placing Gantry: 4 No.
- Rebar Fixing Jigs: 5 No.

Project Duration: 1999-2002



Second Freeway, Contract C383B, Taiwan

Client:

Guo Tend Contractors

Services:

- Construction Engineering
- Precast Mould Design
- Detail Design Drawings
- Precast Yard Design
- Fabrication Inspection
- Contractors Engineer
- Shop Drawings
- Major Temporary Works Design

Specifications:

- Total Project Length: 6.8km
- Max Span: 40
- Deck Width: 24m
- Long Bed Casting Moulds: 8 No.
- Short Bed Casting Moulds: 8 No.
- 80t Segment Placing Gantry: 4 No.
- Rebar Fixing Jigs: 5 No.



Project Duration: 1999-2002



Second Freeway Contract C376 Short Bed Casting Moulds, Taiwan

Client:

Hwang Chang Construction

Services:

- Construction Engineering
- Precast Mould Design
- Detail Design Drawings
- Short Bed Casting Yard Design
- Fabrication Inspection
- Contractors Engineer
- Shop Drawings
- Site Supervision

Specifications:

- Total Project Length: 3.66km
- Spans: 40m~50m
- Deck Width: 16m
- 8 Short Bed Casting Moulds for over 1800 Single Cell Precast Segments
- Casting Yard Layout & Planning

Project Duration: 1996-2000



Second Freeway, Contract C336, Taiwan

Client:

BES Contractors

Services:

- Construction Engineering
- Long Bed Casting Yard Design
- Precast Mould Design
- Detail Design Drawings
- Fabrication Inspection
- Shop Drawings
- Contractors Engineer
- Site Supervision
- Major Temporary Works Design

Specifications:

- Total Project Length: 2.5km (x2)
- Max Span: 45m
- Deck Width: 16.1m (x2)
- Erection Girders: 3 No.
- Long Bed Casting Moulds: 8 No.
- 120t Segment Placing Gantry: 2 No.
- Rebar Fixing Jigs: 4 No.

Project Duration:

1996-2000



Client:

Continental Engineering Corporation, (CEC)

Services:

- Construction Engineering
- Precast Mould Design
- Erection Equipment Design
- Precast Yard Design
- Fabrication Inspection
- Contractors Engineer
- Shop Drawings
- Site Supervision

Specifications:

- Short Bed Casting Moulds.

Project Duration:

1995-2000





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