
BRIDGE PROJECTS
ADVANCE SHORING BRIDGES
wiecon
Bridge Design & Engineering Services
wiecon

BRIDGE PROJECTS

ADVANCE SHORING BRIDGES

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

BRIDGE PROJECTS

ADVANCE SHORING BRIDGES

Mai Tai An River Bridge, Highway No.9, Haulien County Taiwan

Client:

ANCANG Construction Co. Ltd.

Services:

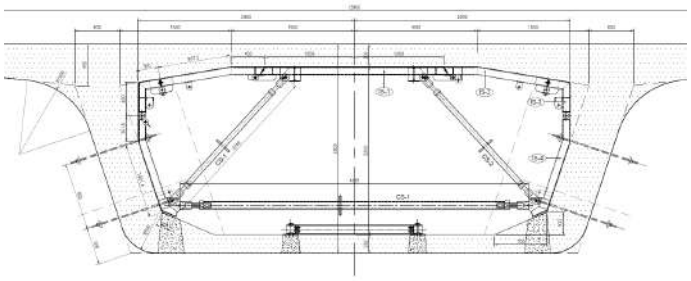
- Construction Engineering
- MSS Equipment Design
- Contractors Engineer
- Major Temporary Works Design

Specifications:

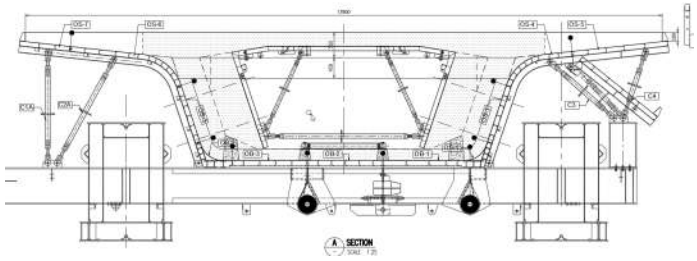
- Total Bridge Length: 1.176km
- Max Span: 49m
- Min Span: 40m
- Deck Width: 14m

Project Duration:

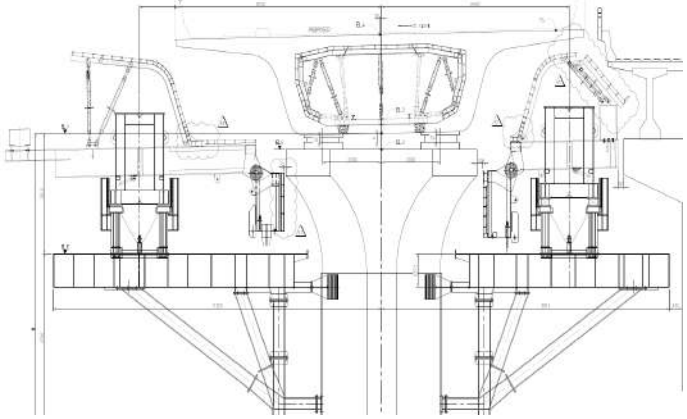
2016-2017



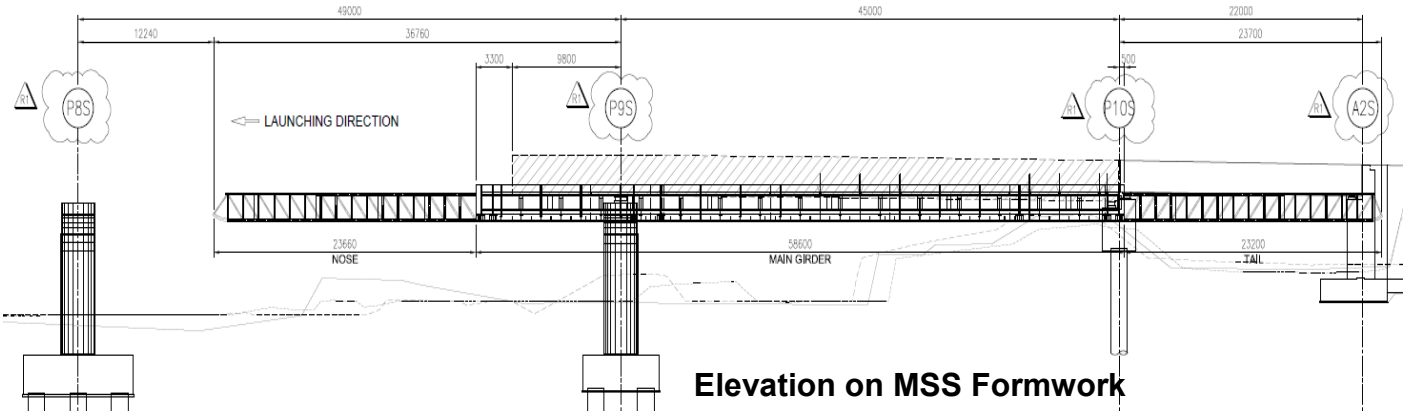
Typical Deck Inner Formwork



Typical Deck Outer Formwork



Typical Section at Pier Support



Elevation on MSS Formwork

BRIDGE PROJECTS

ADVANCE SHORING BRIDGES

Sheikh Sabah Al Ahmad Al Sabah Crossing, RA140, Kuwait

Client:

MEPS, Middle East Pre Stressing LLC

Services:

- Construction Engineering
- MSS Equipment Design
- Contractors Engineer
- Major Temporary Works Design

Specifications:

- Total Project Length: 48.5km
- Spans Configuration: 35m, 40m, 45m
- Max Span: 45m
- Deck Width: 17m
- Two Decks in Parallel

Project Duration:

2015-2016

BRIDGE PROJECTS

ADVANCE SHORING BRIDGES

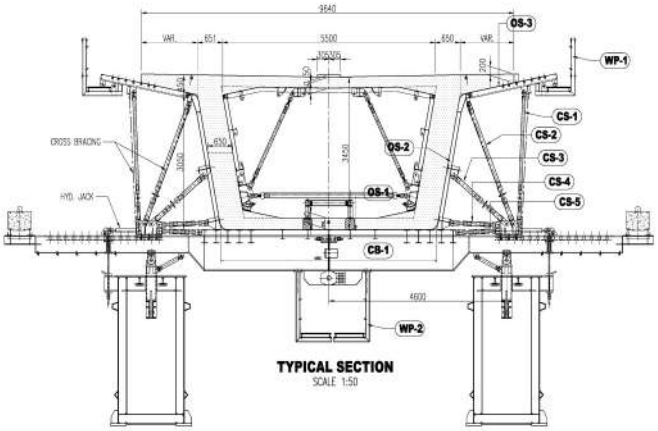
CE01 Taoyuan International Airport MRT Line, Taiwan

Client:

Futzu Construction

Services:

- Construction Engineering
- MSS Equipment Design
- Contractors Engineer
- Major Temporary Works Design



Typical Deck Section Formwork

Specifications:

- Total Project Length: 51.33km
- Max Span: 60m
- Deck Width: 9.64m
- Deck Casting to Tight Radius of 500m

Project Duration:

2009-2011

BRIDGE PROJECTS
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CE02 Taoyuan International Airport MRT Line, Taiwan

Client:
Kung Shin Construction

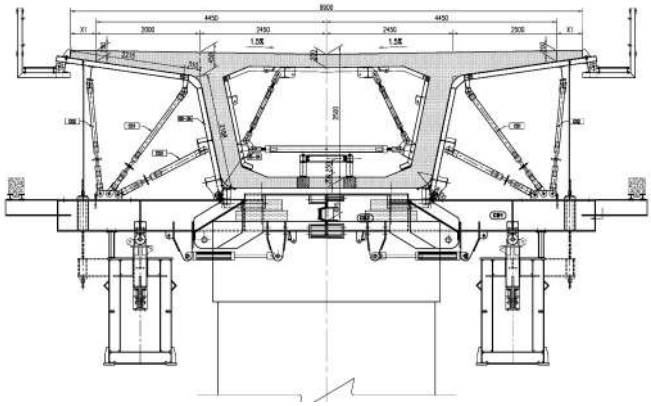
Services:

- Construction Engineering
- MSS Equipment Design
- Contractors Engineer
- Major Temporary Works Design

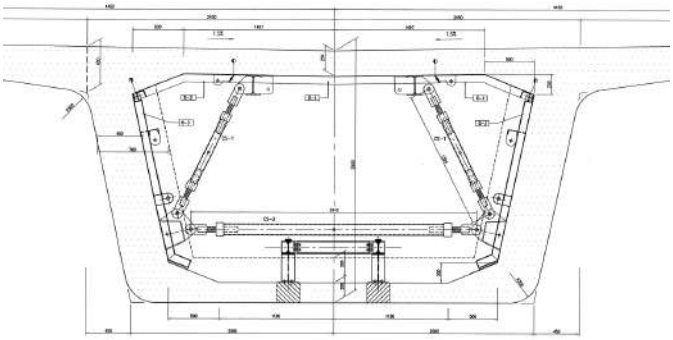
Specifications:

- Total Project Length: 51.33km
- Max Span: 35m
- Min Span: 20m
- Deck Width: 9.9m

Project Duration:
2009-2011



Typical Deck Section Formwork



Typical Deck Inner Form System

BRIDGE PROJECTS

ADVANCE SHORING BRIDGES

Taiwan High Speed Rail Project, Contract C210, Taiwan

Client:

Obayashi / Futsu Joint Venture

Services:

- Construction Engineering
- MSS Equipment Design (2 Sets)
- Contractors Engineer
- Major Temporary Works Design

Specifications:

- Total Project Length: 345km
- MSS Equipment Length: 88m
- Total Contract Length: 2.58km
- Deck Width: 13m
- All Spans 40m

Project Duration:

2000-2003

BRIDGE PROJECTS

ADVANCE SHORING BRIDGES

Taiwan High Speed Rail Project, Contract C215, Taiwan

Client:

Obayashi / Futsu Joint Venture

Services:

- Construction Engineering
- MSS Equipment Design (3 Sets)
- Contractors Engineer
- Major Temporary Works Design

Specifications:

- Total Project Length: 345km
- MSS Equipment Length: 88m
- Total Contract Length: 7.240km
- Deck Width: 13m
- All Spans 40m

Project Duration:

2000-2003

BRIDGE PROJECTS

ADVANCE SHORING BRIDGES

Taiwan High Speed Rail Project, Contract C250, Taiwan

Client:

Hochtief / Ballast Nedam / Pan Asia HBP Joint Venture

Services:

- Construction Engineering
- MSS Equipment Design
- Detail Design of the Bridge
- Contractors Engineer
- Major Temporary Works Design

Specifications:

- Total Project Length: 345km
- MSS Equipment Length: 110m
- Total Contract Length: 810m
- Span Configuration: 45m*18
- Deck Width: 13m

Project Duration:

2001-2003

BRIDGE PROJECTS

ADVANCE SHORING BRIDGES

Taiwan High Speed Rail Project, Contract C250, Taiwan

Client:

Hochtief / Ballast Nedam / Pan Asia HBP Joint Venture

Services:

- Bridge DU 14.05
- MSS Equipment Design
- Detail Design of the Bridge
- Contractors Engineer
- Major Temporary Works Design

Specifications:

- Total Project Length: 345km
- MSS Equipment Length: 110m
- Total Contract Length: 152m
- Span Configuration: 48.5m+55m+48.5m
- Deck Width: 13m

Project Duration:

2001-2003

BRIDGE PROJECTS

ADVANCE SHORING BRIDGES

Taiwan High Speed Rail Project, Contract C295, Taiwan

Client:

EIP Joint Venture

Services:

- Construction Engineering
- MSS Equipment Design (15 Sets)
- Contractors Engineer
- Major Temporary Works Design

Specifications:

- Total Project Length: 345km
- MSS Equipment Length: 110m
- Total Contract Length: 15.5km
- All Spans: 35m
- Deck Width: 13m

Project Duration:

2001-2003

BRIDGE PROJECTS

ADVANCE SHORING BRIDGES

Second Freeway, Contract WH48-2, Taiwan

Client:
Black Stone Construction

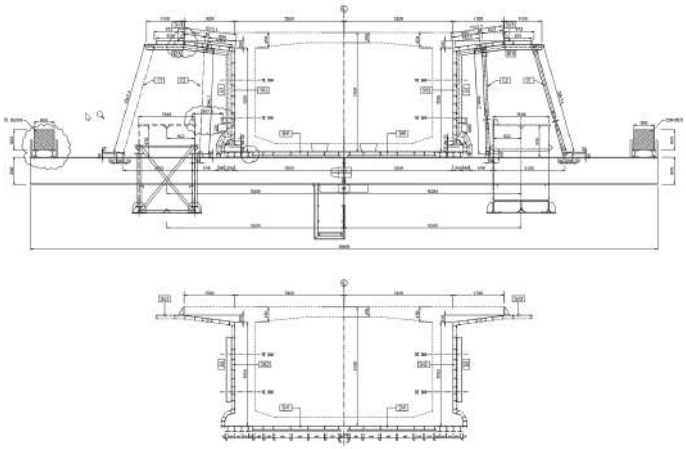
Services:

- Construction Engineering
- MSS Equipment Design
- Contractors Engineer
- Major Temporary Works Design

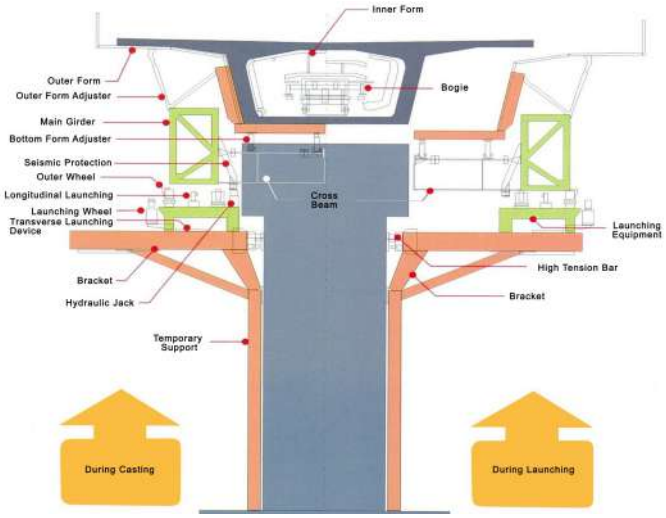
Specifications:

- Total Contract Length: 2km
- MSS Equipment Length: 110m
- Max Span: 30m
- Min Span: 20m
- Deck Width: 9.4m

Project Duration:
2001-2002



Typical Section of Outer Formwork



BRIDGE PROJECTS

ADVANCE SHORING BRIDGES

Second Freeway, Contract C384, Taiwan

Client:
Raito Construction Co.

Services:

- Construction Engineering
- MSS Equipment Design
- Contractors Engineer
- Major Temporary Works Design
- PT Shop Drawings

Specifications:

- Total Contract Length: 1.860km
- Max Span: 43m
- Min Span: 40m
- Deck Width: 13m

Project Duration:
2000-2001

BRIDGE PROJECTS

ADVANCE SHORING BRIDGES

Second Freeway, Contract C321, Taiwan

Client:
Pan Asia Corporation

Services:

- Construction Engineering
- MSS Equipment Design
- Contractors Engineer
- Major Temporary Works Design
- PT Shop Drawings

Specifications:

- Total Contract Length: 1.870km
- Max Span: 43m
- Min Span: 40m
- Deck Width: 13m

Project Duration:
2000-2001

BRIDGE PROJECTS

ADVANCE SHORING BRIDGES

Second Freeway Contract C318, Taiwan

Client:

Kung Shin Construction

Services:

- Construction Engineering
- MSS Equipment Design
- Contractors Engineer
- Major Temporary Works Design

Specifications:

- Total Contract Length: 14km
- Max Span: 45m
- Min Span: 35m
- Deck Width: 16m

Project Duration:

1999-2001

BRIDGE PROJECTS

ADVANCE SHORING BRIDGES

Second Freeway Contract C385, Taiwan

Client:

Wan Chi Steel Industrial Company

Services:

- Construction Engineering
- MSS Equipment Design (3 Sets)
- Contractors Engineer
- Major Temporary Works Design
- PT Shop Drawings

Specifications:

- Total Contract Length: 2.014km
- Max Span: 45m
- Min Span: 40m
- Deck Width: 13m

Project Duration:

1999-2001

BRIDGE PROJECTS

ADVANCE SHORING BRIDGES

Second Freeway, Contract C323, Taiwan

Client:
TANEEB

Services:

- Construction Engineering
- MSS Equipment Design
- Contractors Engineer
- Major Temporary Works Design

Specifications:

- Total Contract Length: 3km
- All Spans: 45.3m
- Deck Width: 18m

Project Duration:
1997-2000

BRIDGE PROJECTS

ADVANCE SHORING BRIDGES

Kao Ping Hsi Bridge Approach Viaducts C381, Pingtung, Taiwan

Client:

Taisei, Kawada, Raito, Pan Asia Joint Venture

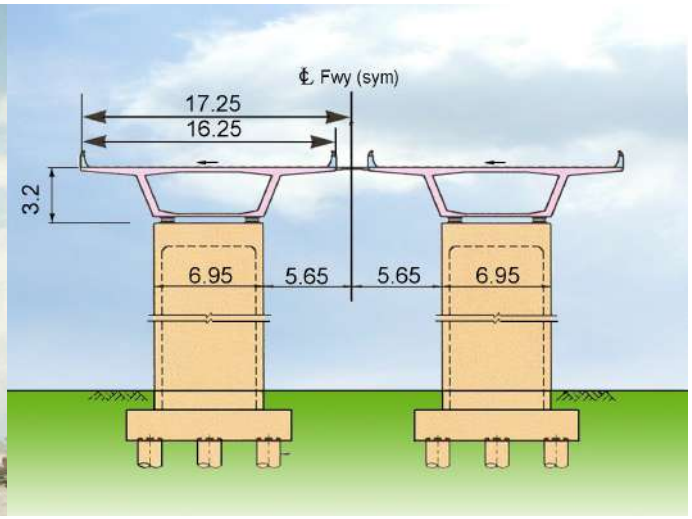
Services:

- Construction Engineering
- MSS Equipment Design
- Contractors Engineer
- Major Temporary Works Design
- Site Supervision

Specifications:

- Weight of Equipment: 700t
- Abutment A to P29: 389.5 m long, 36.2 m + 7 x 45.3 m + 36.2 m
- P29 to P21: 344.2 m long 36.2 + 6 x 45.3 m + 36.2 m
- P21 to P13: 353.3 m long 7 x 45.3 m + 36.2 m
- Deck Width: 16.25 (Each Deck)

Project Duration: 1996-2000



BRIDGE PROJECTS

ADVANCE SHORING BRIDGES

Contract E811 Highway, Kaohsiung, Taiwan

Client:
BES Contractors

Services:

- Construction Engineering
- MSS Equipment Design (2 Sets)
- Contractors Engineer
- Major Temporary Works Design

Specifications:

- Total Contract Length: 980m
- Max Span: 56.6m
- Min Span: 22.8m
- Equipment Weight: 580t
- Deck Width: 22.5m

Project Duration:
1997-1999

BRIDGE PROJECTS

ADVANCE SHORING BRIDGES

Nanking River Bridge, Nanking, China

Client:
Nanking City Government

Services:

- Construction Engineering
- MSS Equipment Design
- Contractors Engineer
- Major Temporary Works Design

Specifications:

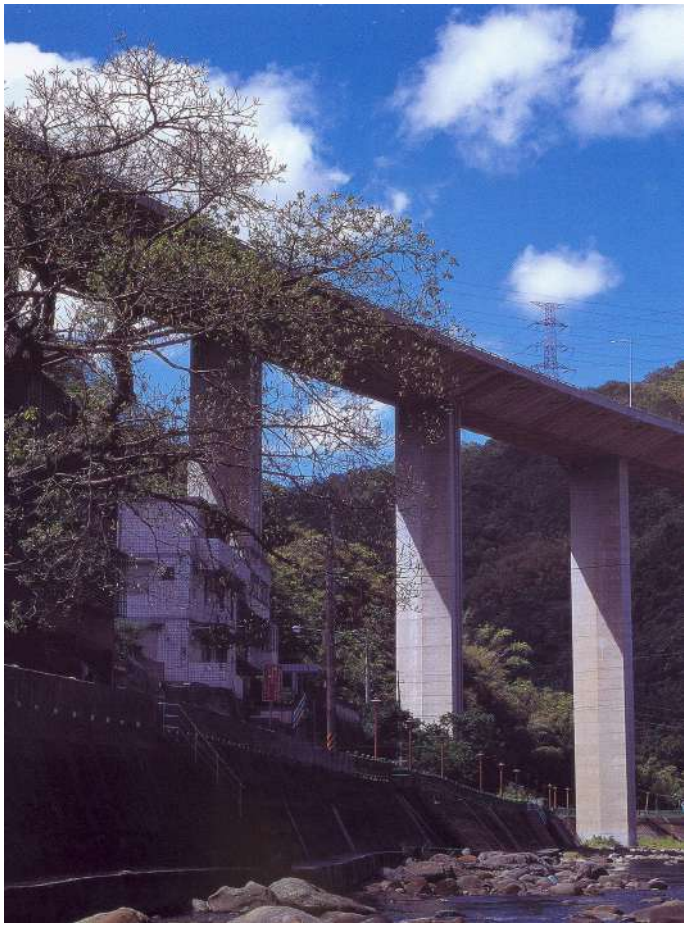
- Total Contract Length: 600m
- Span Configuration: 50m*12
- Equipment Weight: 710t
- Deck Width: 12.4m

Project Duration:
1997-1999

BRIDGE PROJECTS

ADVANCE SHORING BRIDGES

Taipei to Ilan Expressway No.5, Contract C220, Taiwan



Client:
Hsin Shung Construction

Services:

- Construction Engineering
- MSS Equipment Design
- Contractors Engineer
- Major Temporary Works Design

Specifications:

- Total Contract Length: 30.8km
- Total Bridge Length: 480m
- Span Configuration: 40m*3+39m+43m*6+40m+23m
- Deck Width: 25.2m

Project Duration: 1997-1999

BRIDGE PROJECTS

ADVANCE SHORING BRIDGES

Second Freeway Contract C325 A & B, Taiwan

Client:
TANEEB

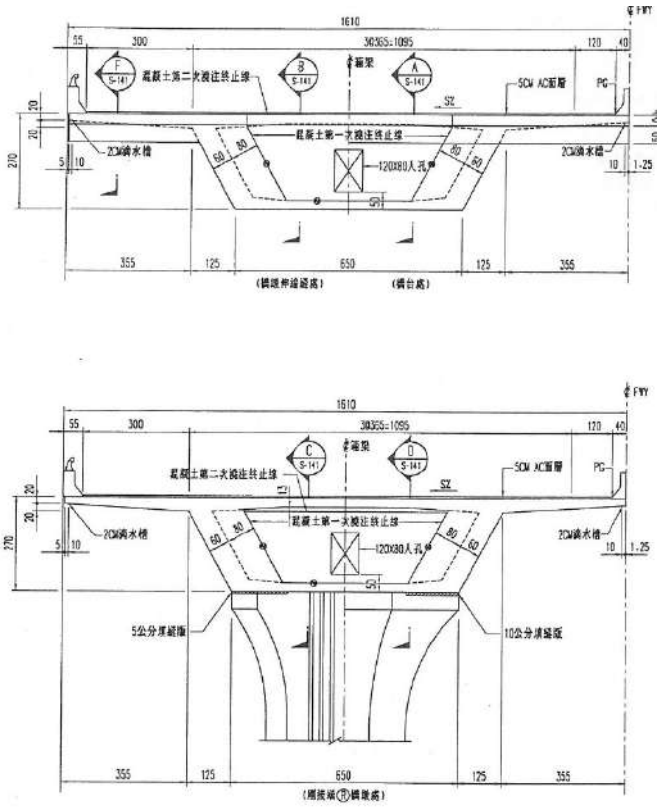
Services:

- Construction Engineering
- MSS Equipment Design (3 Sets)
- Contractors Engineer
- Major Temporary Works Design

Specifications:

- 12 MSS Bridges
- Total Contract Length: 3.32km
- Max Span: 60m
- Min Span: 45m
- Deck Width: 16.1m

Project Duration: 1997-1999



Typical Deck Sections

BRIDGE PROJECTS

ADVANCE SHORING BRIDGES

Second Freeway, Contract C398, Taiwan

Client:
TANEEB

Services:

- Construction Engineering
- MSS Equipment Design (2 Sets)
- Contractors Engineer
- Major Temporary Works Design

Specifications:

- Total Weight of Each MSS: 700t
- Total Contract Length: 2.88km
- All Spans: 45m
- Deck Width: 12.45m

Project Duration:
1995-1998

BRIDGE PROJECTS

ADVANCE SHORING BRIDGES

Second Freeway, Contract C330, Taiwan

Client:
TANEEB

Services:

- Construction Engineering
- MSS Equipment Design (2 Sets)
- Contractors Engineer
- Major Temporary Works Design

Specifications:

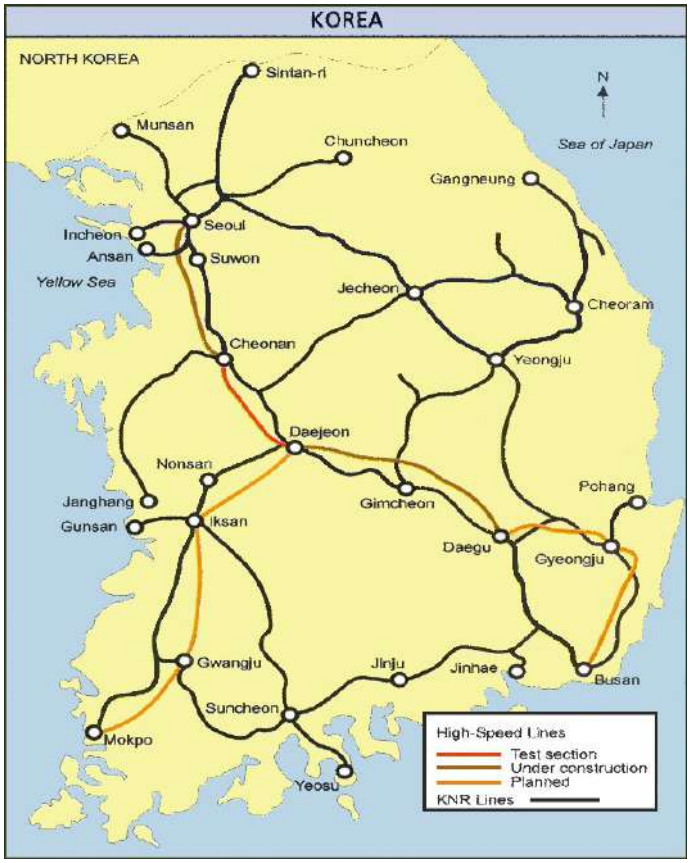
- Total Weight of Each MSS: 700t
- All Spans: 45m
- Deck Width: 16.1m

Project Duration:
1995-1998

BRIDGE PROJECTS

ADVANCE SHORING BRIDGES

Seoul-Busan High Speed Rail Line, South Korea



Client:
Korea High Speed Rail Construction Authority

Services:

- Construction Engineering
- MSS Equipment Design (3 Sets)
- Contractors Engineer
- Major Temporary Works Design

Specifications:

- Identification of hazards
- Recommendations on control and mitigations measures
- Recommendations on design modifications
- Tunnel layout design
- Ventilation studies

Project Duration: 1996

BRIDGE PROJECTS

ADVANCE SHORING BRIDGES

Taiwan Railway Administration, Miaoli, Taiwan

Client:

J & S Contractors, Taiwan

Services:

- Construction Engineering
- MSS Equipment Design (2 Sets)
- Bridge Detail Design
- Contractors Engineer
- Major Temporary Works Design

Specifications:

- Total Bridge Length: 1.5km
- Provided a grade separated rail system for the Taiwan Railway Administration (TRA)
- Improved the TRA's operations through the city center
- improved the road and pedestrian circulations in the city center
- provided an improved environment for the citizens of Miaoli

Project Duration: 1993-1994

wiecon

11 Floor, 866-3 Zhongzheng Rd
Zhonghe District, Taipei, 235,
Taiwan.
Tel: +886 (0)2 2221-3833
Web: www.wiecon.com.tw

Contact:
Mr. Boris Wiessler
President
wiecon@wiecon.com.tw

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