

N 47° 04.364 E 015° 26.165 N 45° 21.139 W 075° 45.703

N 40° 37.255 E 046° 14.592 S 35° 18.989 E 148° 54.845

N 31° 46.320 E 035° 12.382

N 47° 04.364 E 015° 26.165 N 45° 21.139 W 075° 45.703

N 40° 37.255 E 046° 14.592 S 35° 18.989 E 148° 54.845

N 31° 46.320 E 035° 12.382 N 47° 04.364 E 015° 26.165 N 45° 21.139 W 075° 45.703

N 40° 37.255 E 046° 14.592 S 35° 18.989 E 148° 54.845

N 31° 46.320 E 035° 12.382

N 47° 04.364 E 015° 26.165 N 45° 21.139 W 075° 45.703



# ERE S80T Tactical Bridge



# Features



N 47° 04.364 E 015° 26.165 N 45°

N 40° 37.255 E 046° 14.592 S 35° 18.98

N 31° 46.320 E 035° 12.382

N 47° 04.364 E 015° 26.165 N 45° 21.139

N 40° 37.255 E 046° 14.592 S 35° 18

N 31° 46.320 E 035° 12.382 N 47° 04.364

139 W 075° 45.703

N 40° 37.255 E 046° 14.592 S 35° 18.989

N 31° 46.320 E 035° 12.382

N 47° 04.364 E 015° 26.165 N 45° 21.1



Infinite Length



Vehicle Launched



80T Capacity

N 47° 04.364 E 015° 26.165 N 45° 21.139 W 075° 45.703

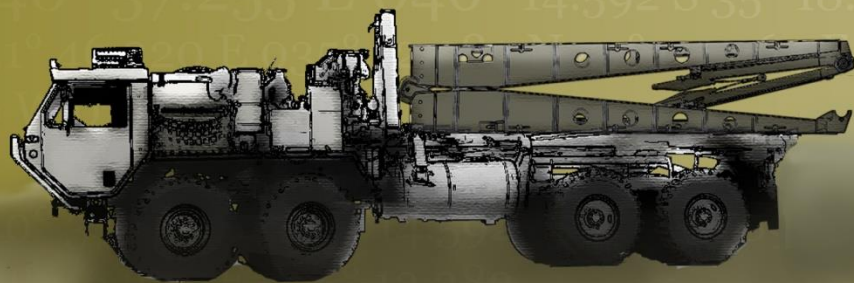
N 40° 37.255 E 046° 14.592 S 35° 18.989 E 148° 54.845

N 31° 46.320 E 035° 12.382

N 47° 04.364 E 015° 26.165 N 45° 21.139 W 075° 45.703

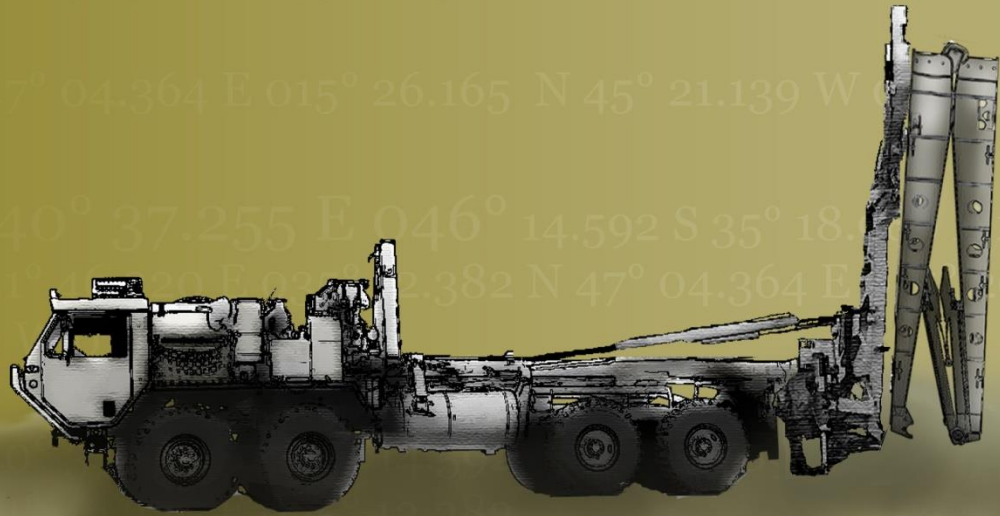
N 40° 37.255 E 046° 14.592 S 35° 18.989 E 148° 54.845

N 31° 46.320 E 035° 12.382 N 47° 04.364 E 015° 26.165 N 45° 21.139 W 075° 45.703



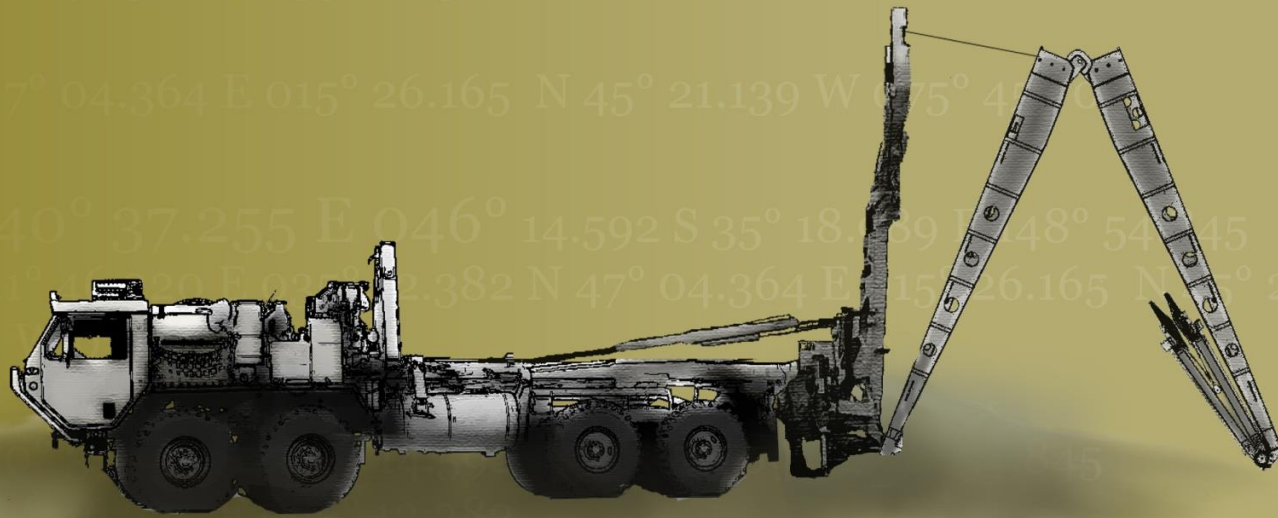
N 47° 04.364 E 015° 26.165 N 45° 21.139 W 075° 45.703

# Deployment



Deployment





Deployment



Deployment

## DIMENSIONS

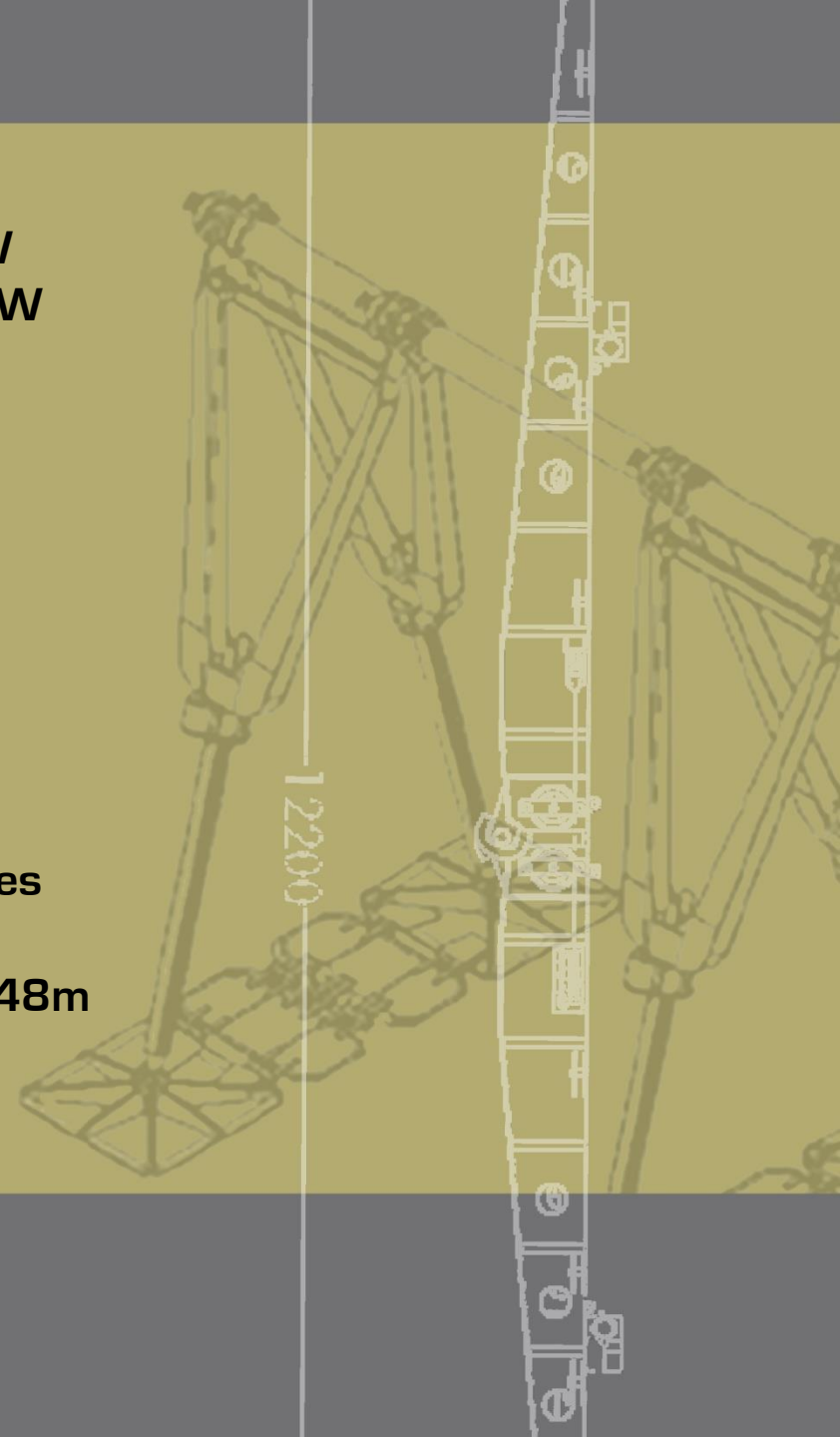
|                    |                  |
|--------------------|------------------|
| Transport          | 6.1m L x 3.3m W  |
| Deployed           | 12.2m L x 4.4m W |
| MAX Length         | No limit         |
| MAX Height         | 3m               |
| MAX Water Crossing | 4.7m             |

|                 |         |
|-----------------|---------|
| MAX Load Cap.   | 80 tons |
| Weight per span | 5200 kg |

## TRACK

|               |                    |
|---------------|--------------------|
| Width         | 1.5m x 2           |
| Enclosed deck | With center plates |

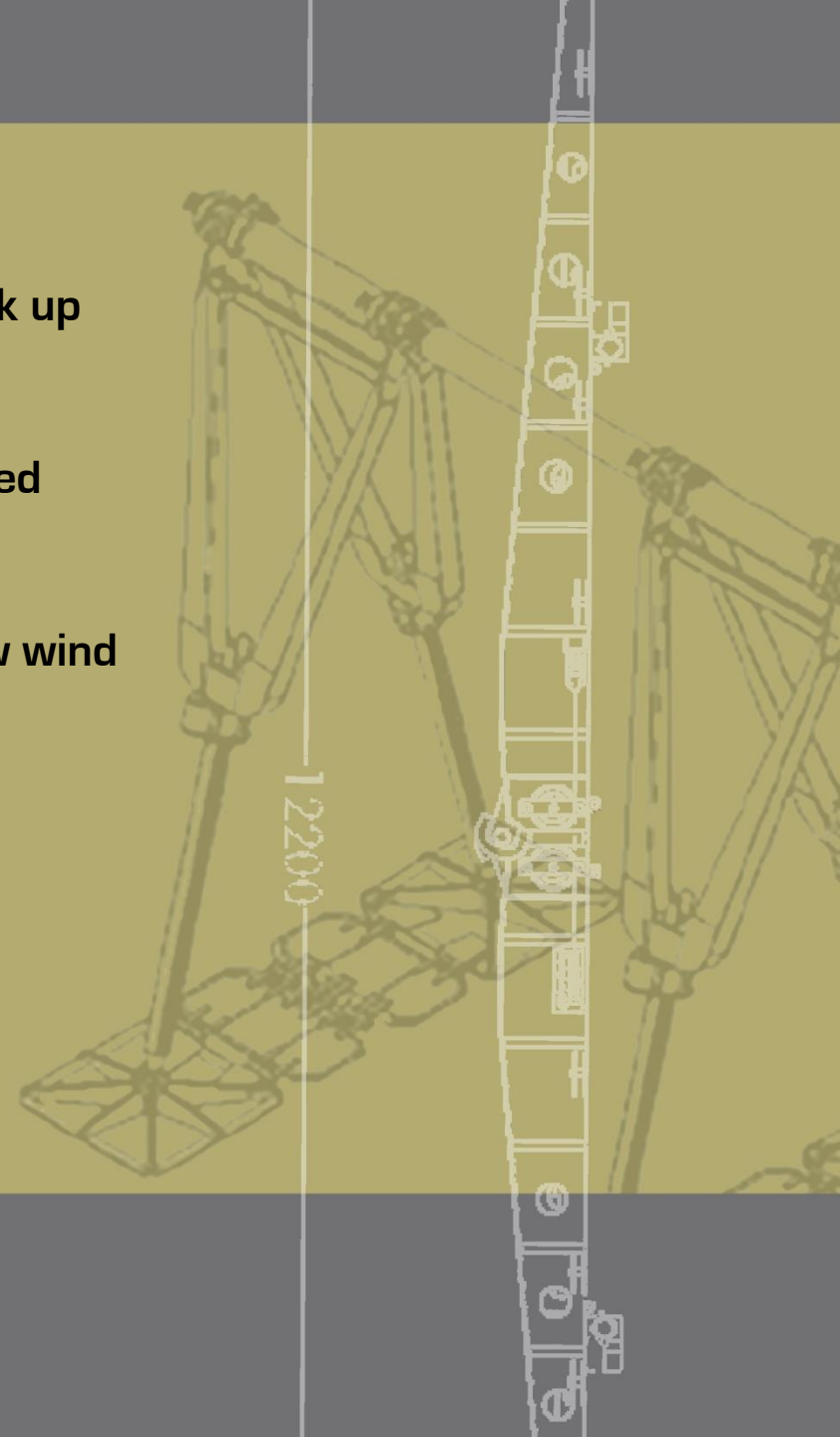
|                |                    |
|----------------|--------------------|
| Spans          | 12 / 24 / 36 / 48m |
| Crew count     | 4 man              |
| Launching Time | < 70 min.          |



# Specifications

## FEATURES

- Hydraulic Self levelling legs, deployed by pick up mounted power pack
- Open deck grating, no mud build-up, improved traction
- Max height of bridge plus layer is 20 ft - low wind loading on the bridge and truck
- T1 Steel construction
- Marine Grade paint finish



# Specifications



# Components

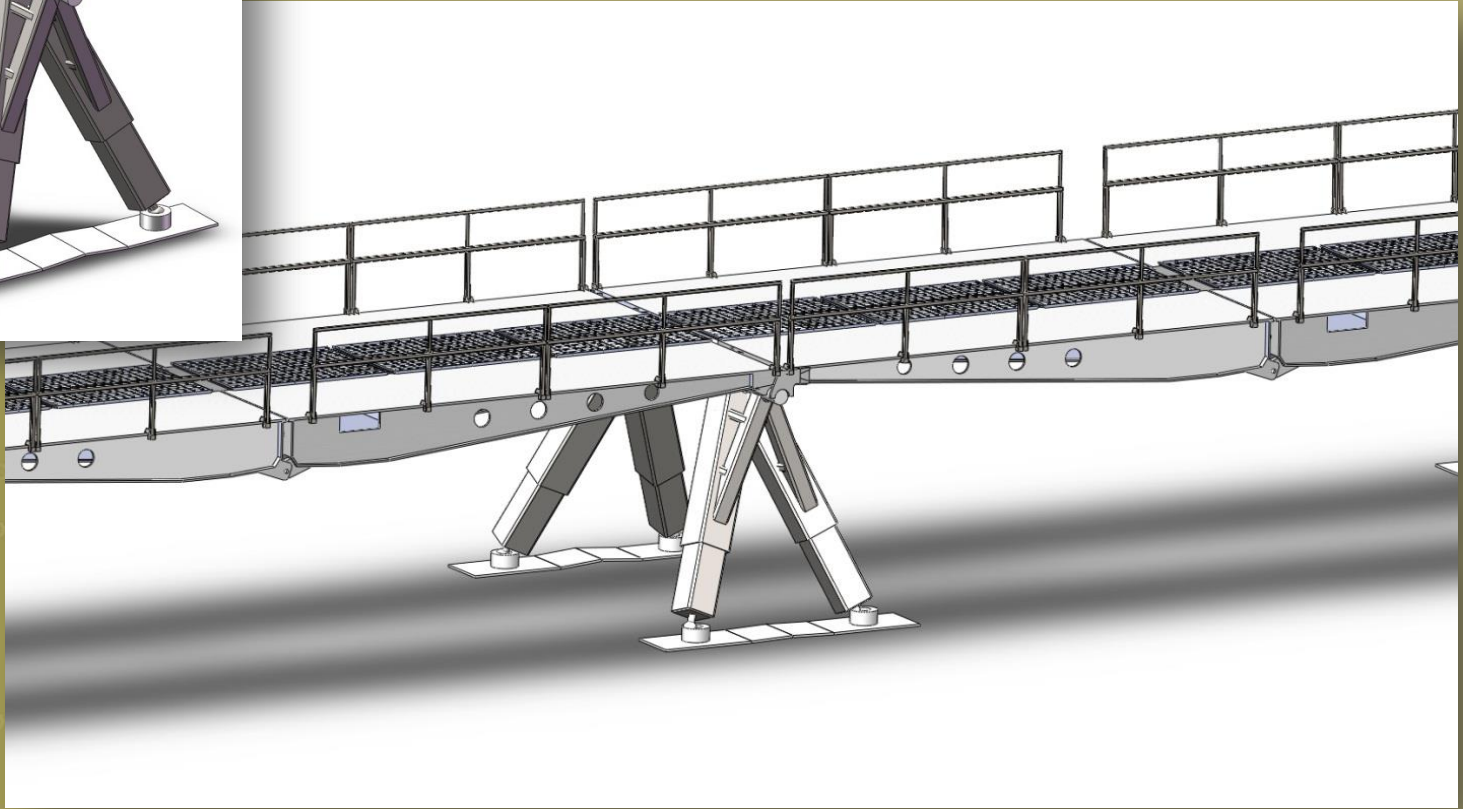




Bridge



Launcher



Legs – Hydraulic, Self-levelling



N 47° 04.364 E 015° 26.165  
N 40° 37.255 E 046° 14.59  
N 31° 46.320 E 035° 12.382  
N 40° 37.255 E 046° 14.59  
N 31° 46.320 E 035° 12.382  
N 47° 04.364 E 015° 26.165  
N 40° 37.255 E 046° 14.59  
N 31° 46.320 E 035° 12.382  
N 47° 04.364 E 015° 26.165



Trailer



W 075° 45.703

8° 54.845

5.703



139 W 075° 45.703

N 40° 37.255 E 046° 14.592 S 35° 18.9

N 31° 46.320 E 035° 12.382

N 47° 04.364 E 015° 26.165 N 45° 21.139 W 075° 45.703

# Deployment



Deployment



Deployment



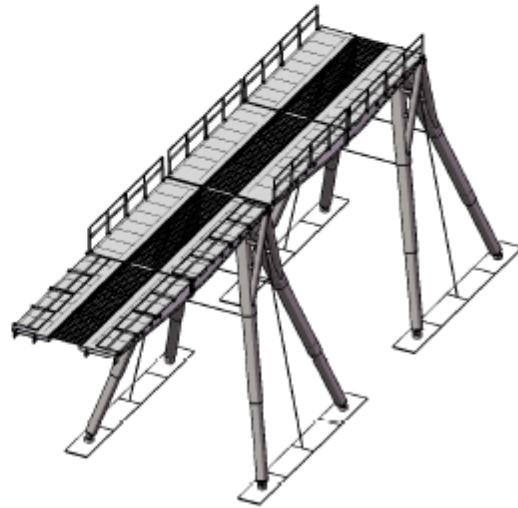
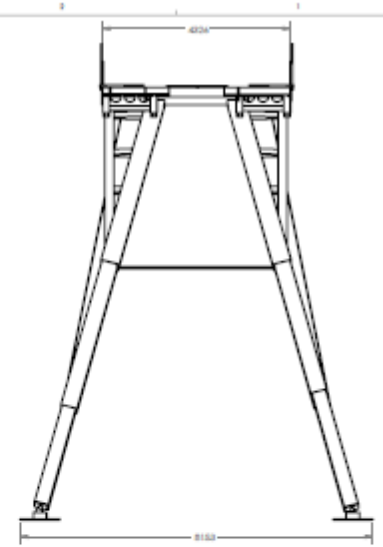
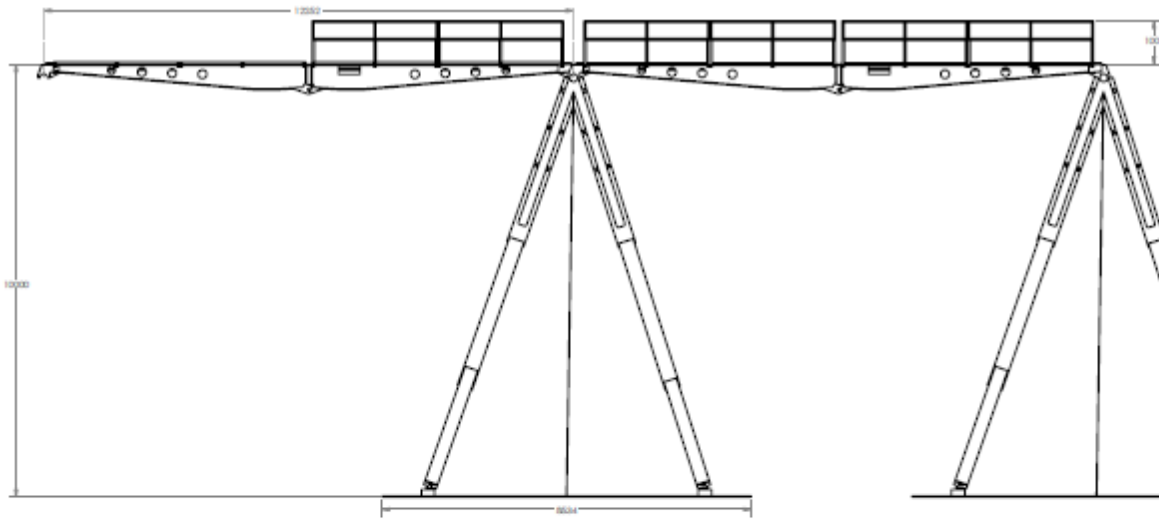
Decking



# Projects



# Projects



| UNIQUE IDENTIFY SYMBOL   |      |    |          | <br><b>ERE Logistics</b><br><small>Engineering &amp; Construction</small> |                               | <small>REVISED<br/>         DATE<br/>         BY</small> |  |
|--------------------------|------|----|----------|--|-------------------------------|--|--|
| <input type="checkbox"/> | DATE | BY | REVISION | PROJECT NO.  | <b>ENE 10M LEG CONCEPT</b>    |  |  |
| <input type="checkbox"/> | DATE | BY | REVISION | PROJECT NO.  | <small>DATE ENCL. NO.</small> |  |  |
| <input type="checkbox"/> | DATE | BY | REVISION | PROJECT NO.  | <b>D</b>                      |  |  |
| <input type="checkbox"/> | DATE | BY | REVISION | PROJECT NO.  | <small>SCALE - 1:50</small>   |  |  |

Options





Technical Support

# BILATERAL DESIGN AND EST CODE FOR MILITARY BRIDGING AND GAP-CROSSING EQUIPMENT

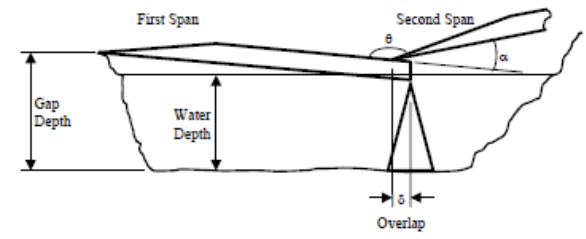
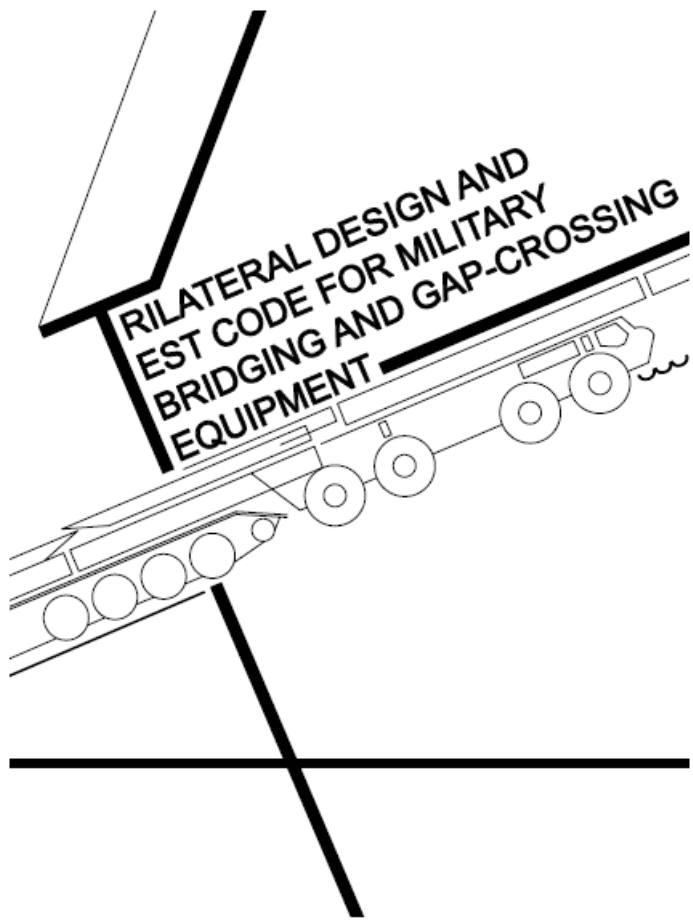


FIGURE 4-1

4.4.1.3 In the case of combination bridges on piers or trestles, due consideration must be given to the obtuse angle ( $\theta$ ) between bridge deck surfaces (which could affect trafficability), the acute angle ( $\alpha$ ) between the deck of a first span and the undeflected bottom chord of a subsequent span (which could produce 'knife-edge' loading), and the relative overlap ( $\delta$ ) between bridges (which could be reduced with trafficking as a result of bridge movement). See Figure 4-1.

4.4.1.4 Minimum suggested values for these parameters are:

$$\theta = 149.0 \text{ degrees, } \alpha = 3.0 \text{ degrees, } \delta = 0.75 \text{ m (2 ft, 6 in)}$$

4.4.2 **Grillage Bearing Pressure.** Maximum: 160 kN/m<sup>2</sup> (1.7 ton/ft<sup>2</sup>). Sinkage is acceptable consistent with stability and recovery.

4.4.3 **Current Speeds.** The current speeds for piers are the same as those given for floating bridges and rafts (paragraphs 4.5.1).

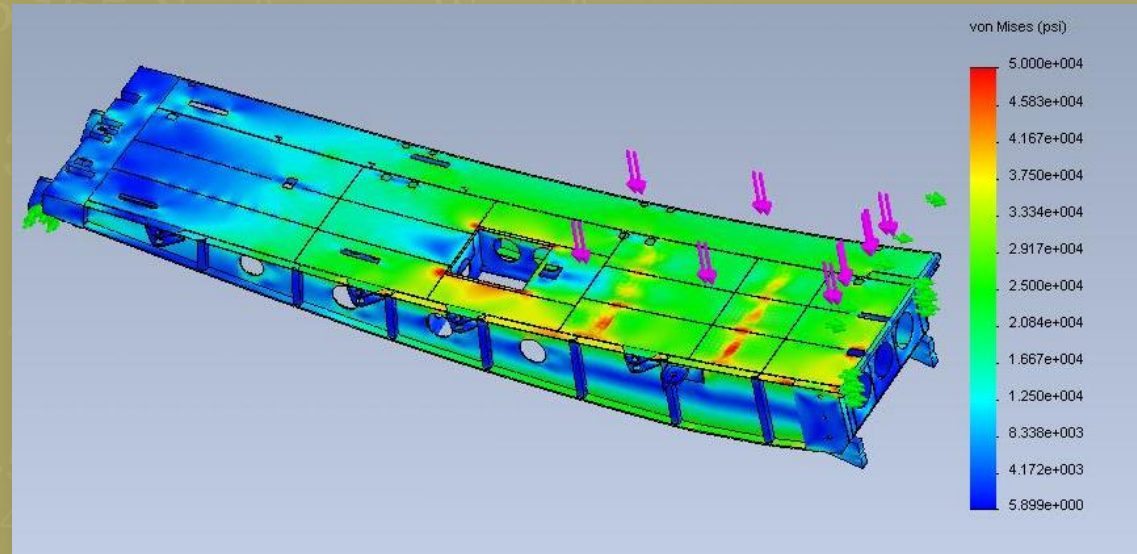
4.4.4 **Pier Support.** These should articulate in any direction to allow a longitudinal and transverse bridge slope of at least  $\pm 1$  in 10 ( $\pm 10\%$ ) under live vehicle loading.

## 4.5 Floating Bridges and Rafts.

### 4.5.1 Bridging Current Speeds:

| Condition                    | Speed               |
|------------------------------|---------------------|
| Construction and normal use: | 2.5 m/s (4.9 knots) |
| Unladen equipment survival:  |                     |
| Minimum:                     | 3.5 m/s (6.8 knots) |
| Desirable:                   | 5.0 m/s (9.7 knots) |

80T  
0 - 6.5 m  
4 Spans  
5 kph



Analysis Support



# Proof Tests



# ERE S80T Tactical Bridge