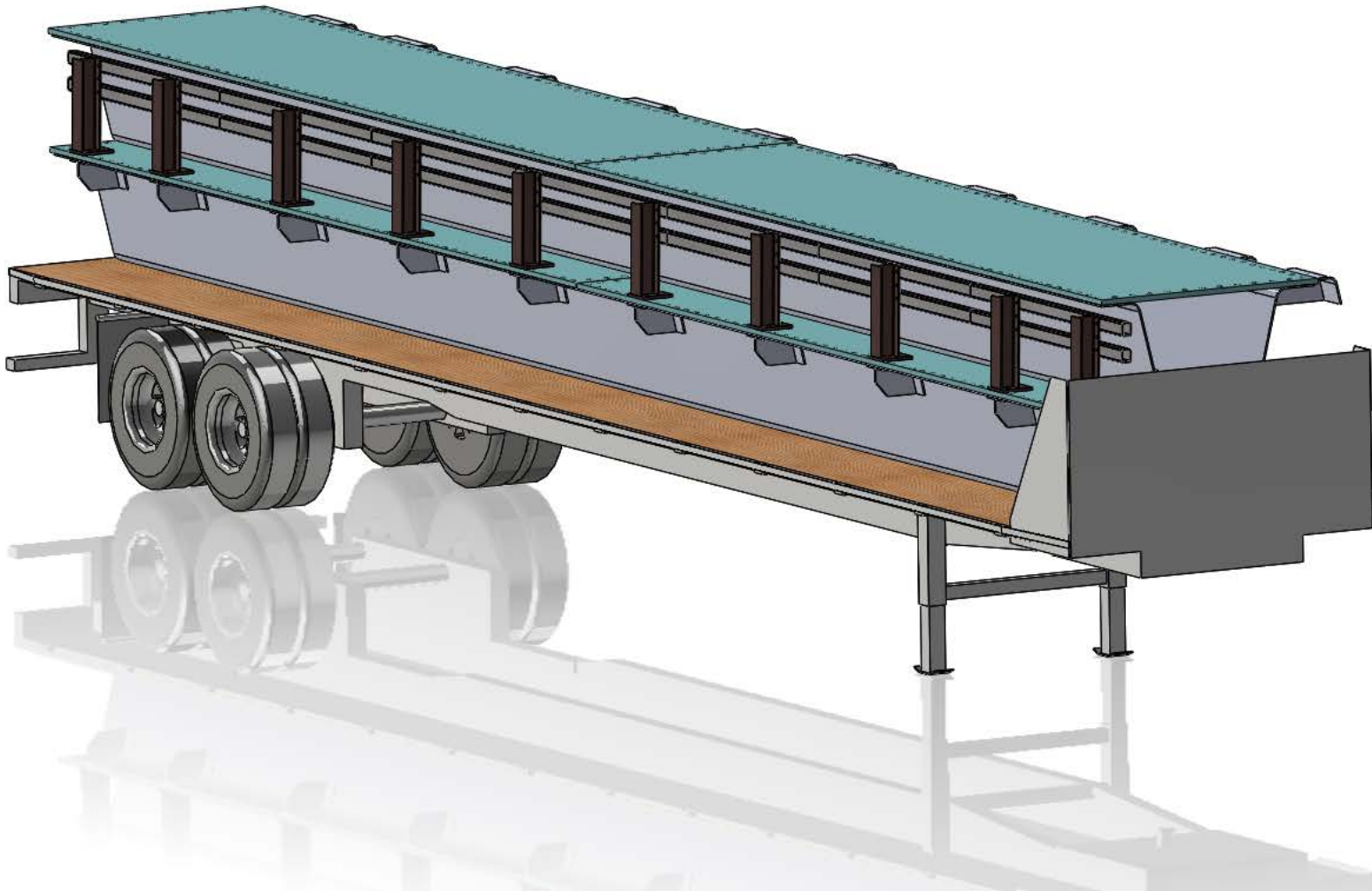


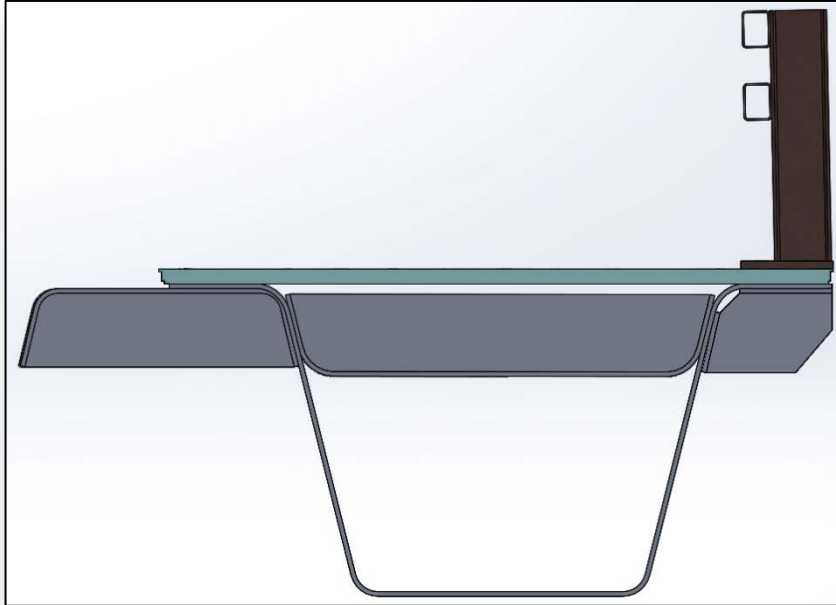
# Large Preassembled Bridge Sections



# Prefabricated Tub Girder with SPS Decks

## Quality control fabrication process

1. Press-braked tub girders
  - standard plate dimensions & details
  - no welding or splicing required
  - no camber required ( $\frac{1}{4}$ " in 60' with SPS)
2. SPS plates partially bolted in shop to girders
  - stable module without internal diaphragms
3. Crash barriers installed and wearing surface applied to modules for easy erection



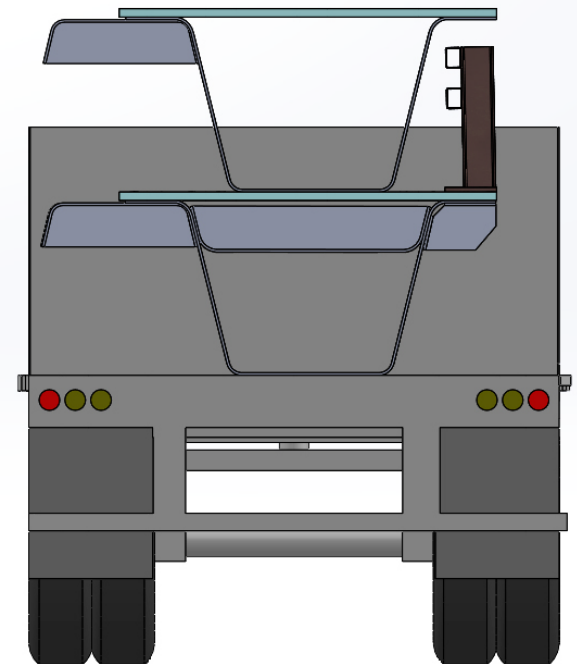
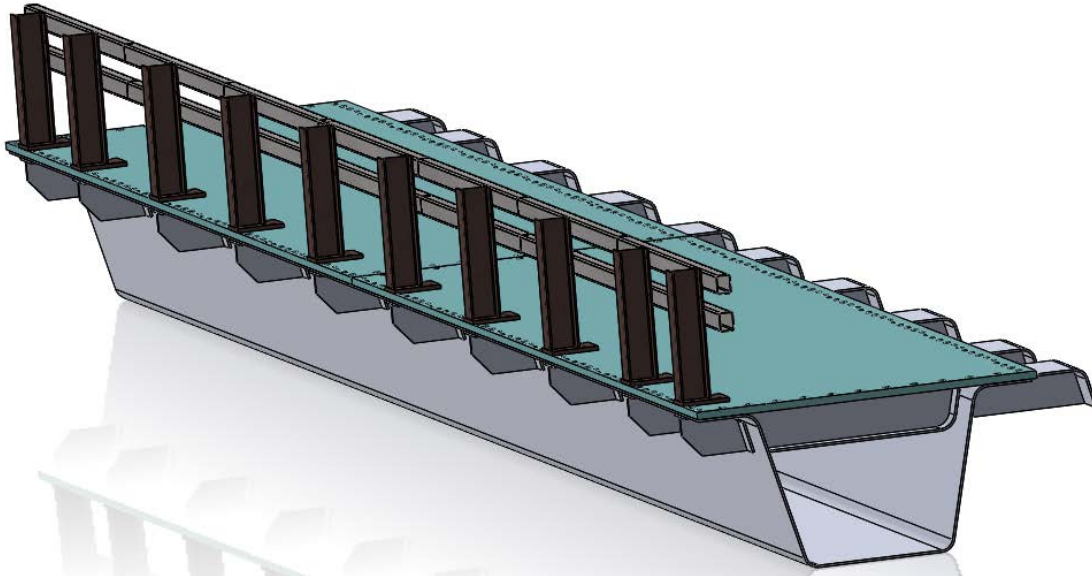
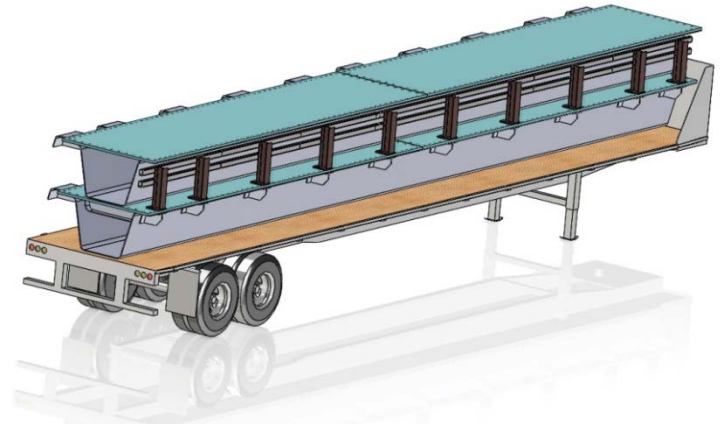
source  
SSSBA



# Prefabricated Tub Girder with SPS Decks

## Pre-engineered modular unit

1. Each girder module weighs  $\approx 12\text{t}$
2. Two modules per flat-bed truck up to 60'
3. SPS deck, base plate, guard-rail posts & rails, wearing surface are pre-installed on steel girder

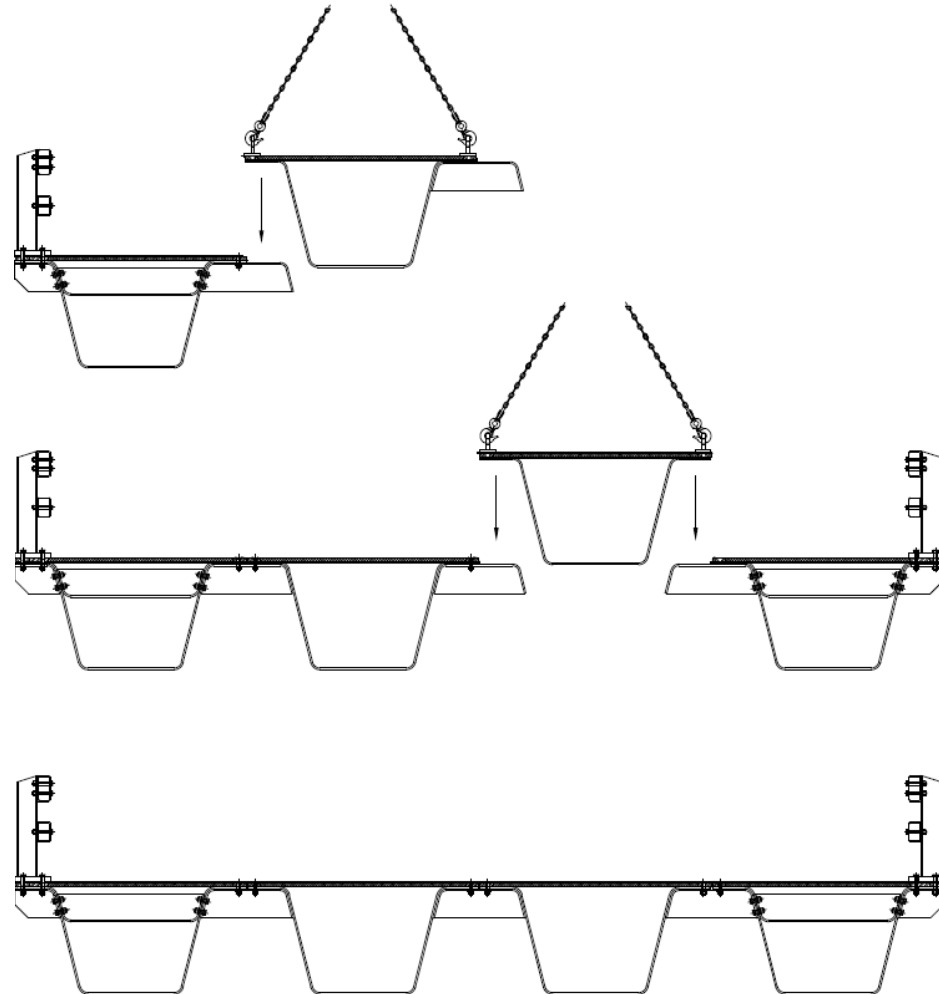
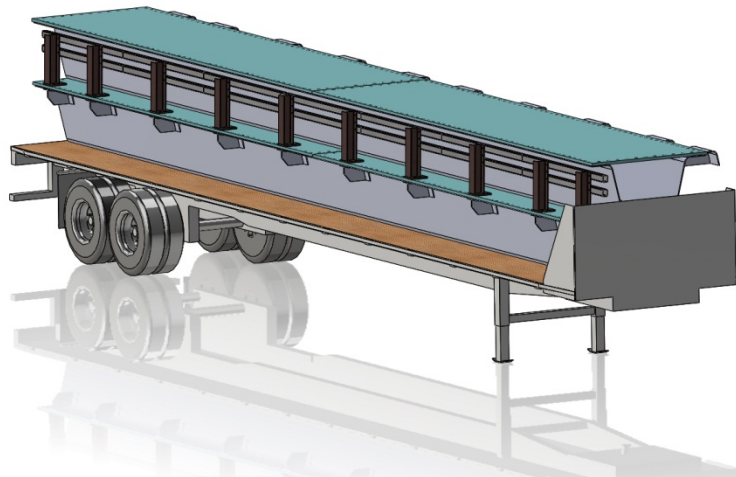


# Prefabricated Tub Girder with SPS Decks

## Erection / Installation - Rapid Deployment

### Bridge Erection Sequence

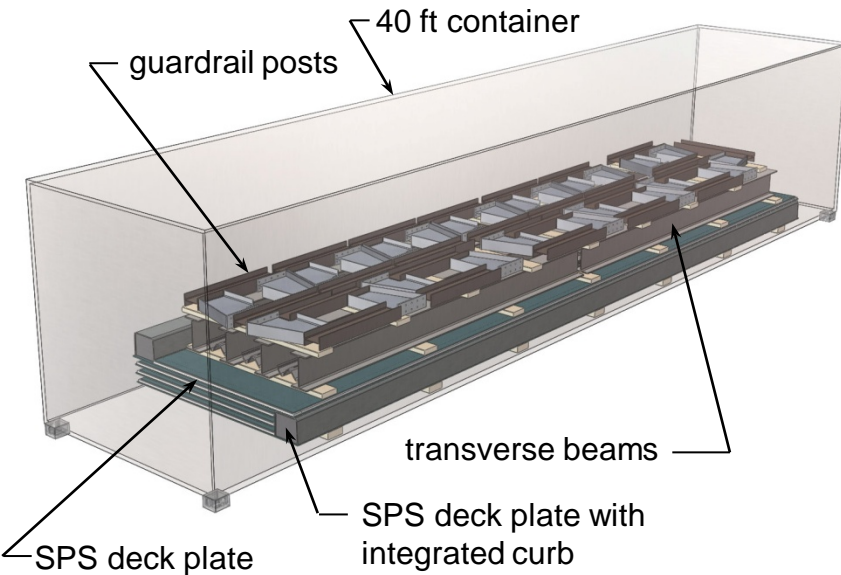
1. modules arrive on site ready to erect
2. typical crane capacity of 15t required
3. erect 6 to 8 modules per day
4. bolting crew → 4 to 6 modules per day
5. welding crew → 4 to 6 modules per day
6. apply remaining wearing surface





# Prefabricated SPS Bridge Decks

## Shipping - Bridge in a Box or Large Assemblies



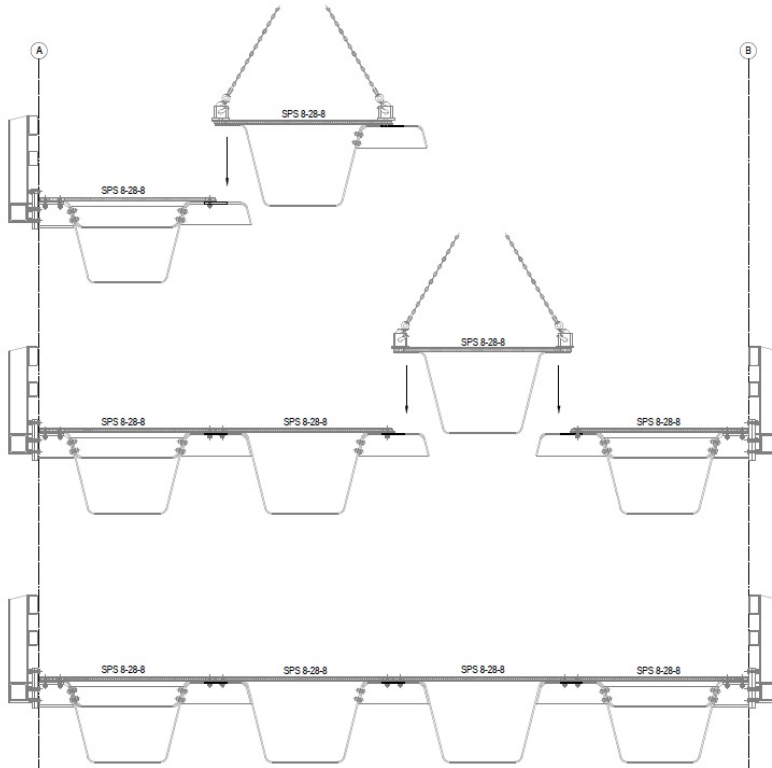
- bridge components shipped via container (22t capacity for standard 40 ft container) or flat bed truck
- transform construction site into an assembly site of prefabricated components, **speed**
- different wearing surfaces easily accommodated

# SPS Bridge Deck for ABC Application

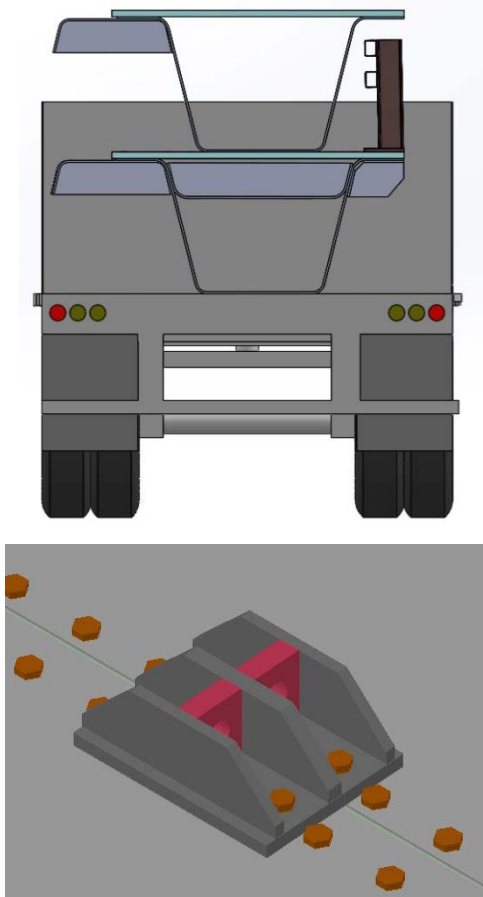
## Erection and Assembly of Tub Girder Modules

### Pre-fabricated and Pre-assembled Large Modular Components

- weight of exterior modules (pre-attached guardrails, posts, shaped splice plates)  $\approx$  15.5 tons
- weight of interior modules  $\approx$  12.4 tons
- stable module with four built-in pick points



Erection Sequence



Typical Pick Point