



Acrow's Detour a Critical Component of New York Road Initiative in Lower Westchester County

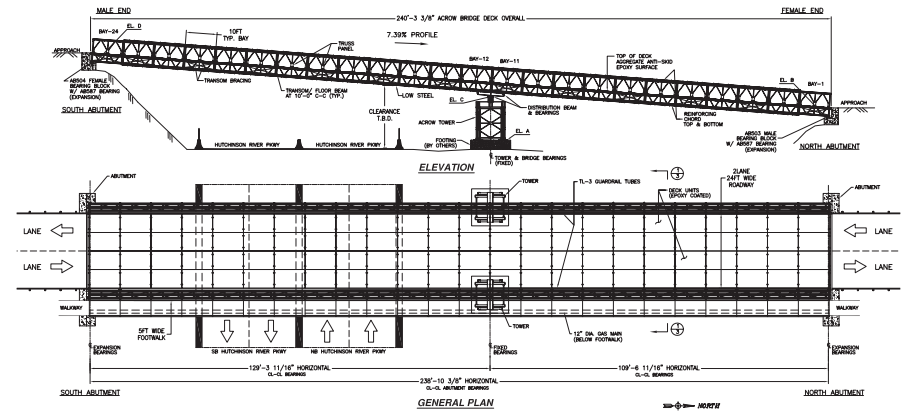
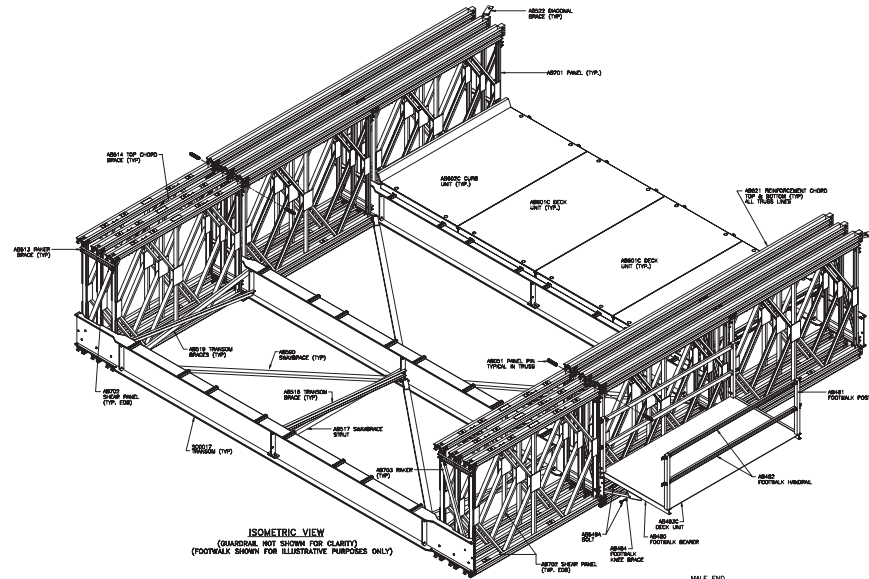
Modular steel bridge enables uninterrupted traffic flow on key project to address chronic flooding

To alleviate frequent flooding on three heavily-traveled routes, New York State launched a major project to improve drainage and enhance road safety and resiliency during storms. One facet of the initiative was to replace the East Lincoln Avenue Bridge over the Hutchinson River Parkway in Westchester County. As the route permitted commuter access in a densely populated location, 15 miles outside of midtown New York City, it was considered necessary to design and supply a temporary detour bridge to be in place for the duration of the work.

Design Builder Halmar International, LLC selected Acrow to provide the temporary structure. The final solution, a two-lane, two-span bridge with an overall length of 240 feet (73.15m) and a width of 24 feet (7.35m), carries two lanes of traffic, plus a 5 foot long (1.5m) cantilevered

footwalk and bearers for a 12" gas main. Two Acrow shoring towers provide structural support. Despite the challenges of a very tight launch area with an 8% slope, the installation was completed in half of the anticipated time and opened to traffic in February 2021. It will be in use for approximately 11 months until the new bridge is ready.

Modular steel bridges provide a cost-effective temporary solution to traffic rerouting during projects to rehabilitate or replace aging infrastructure. They are customizable to meet specific site requirements, and they are easily transported and rapidly installed with minimal heavy equipment. Durable and reliable, they are equally suitable as permanent structures, in both cases enabling Accelerated Bridge Construction.



Specifications

Bridge length:

Two spans of 130' (39.62m) and 110' (33.53m) for an overall length of 240' (73.15m)

Roadway width:

24' (7.35m) plus 5' (1.5m) cantilevered footwalk

Guide rail:

TL-2

Deck surface:

Epoxy aggregate

Bridge erection method:

Full cantilever launch

Design load:

Two lanes of HS-20 plus guide rail

Standard Acrow bridge finish:

- All major components galvanized to AASHTO M111-ASTM A123
- All bolts are hot-dip galvanized
- All pins are electrogalvanized

Standard Acrow bridge specification:

- Panel chords, diagonals, verticals, reinforcing chords, rakers to AASHTO M223 GD 65
- Raker braces, transoms, top chord braces, swaybraces, transom braces, diagonal chord braces, decking to AASHTO M223 GD 50
- Panel pins to ASTM A 193 GD B7
- Bolts to AASHTO M164M - A325