ACROW

Acrow Detour Bridge Minimizes Work Zone Impact During Construction in Port-au-Prince, Haiti

After two years of service the structure was easily repurposed for a critical detour application

Route Soleil 9 in Port-au-Prince, Haiti, is a vital transportation thoroughfare and one of the most congested in the metropolitan area. Average daily traffic is 10,000 vehicles, including heavy commercial truck traffic and emergency responders.

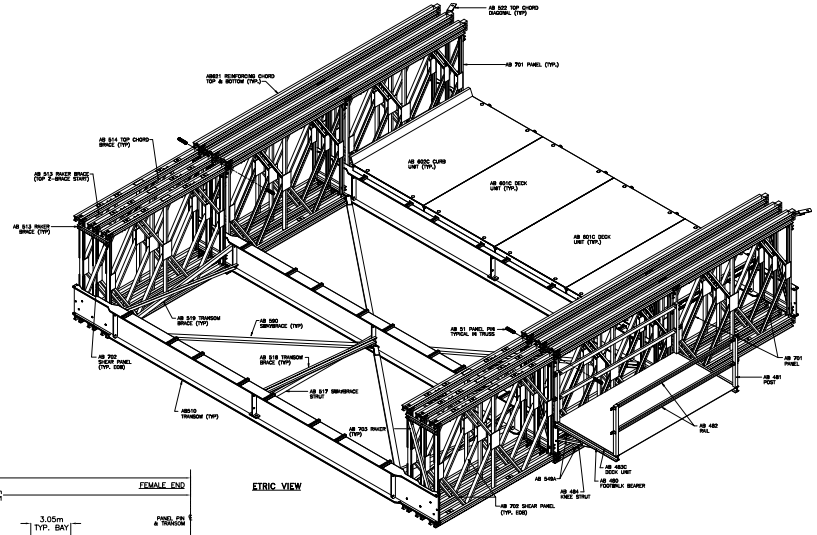
In 2016, Acrow supplied a modular steel bridge to serve as a detour on the route as construction plans for a permanent concrete bridge were finalized. In 2018, when work on the permanent crossing began, the structure was moved several hundred meters away to serve as a detour during construction.

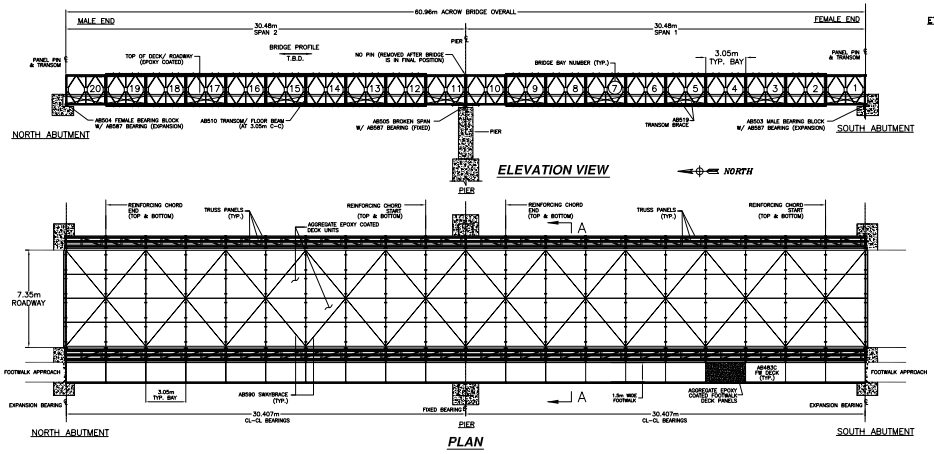
The two-lane Acrow bridge was manufactured with high-strength, high-quality U.S. steel from ISO-certified mills and galvanized to protect against corrosion. Designed to support heavy loads and to withstand severe weather conditions, Acrow bridges are virtually maintenance-free with a service life of 75 years or more.

Acrow's versatile modular bridge was an ideal solution for this project. Prefabricated components allowed for fast installation of the dual-span structure, and when needed in the new location, it was easily disassembled, transported and reassembled. The reusable components can be readily stored for future projects, and flexible launch methods require only minimal equipment to lift or roll the structure into place, making it an ideal solution for critical detour applications.

acrow.com
bridges@acrow.com
+1.973.244.0080

ACROW





Specifications

Bridge length:

60.96m (200′)

Roadway width:

7.35m (24′) with 1.5m (5′) footwalk

Deck surface:

Epoxy aggregate

Bridge erection method:

The original installation was a cantilever launch; due to urgency, the second installation was crane lift in.

Design load:

2 lanes of HS25 or 2 lane 60 MT Truck (ASD) Pedestrian load = 2.87 kPa

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:

(A) Panel chords, diagonals, verticals, reinforcing chords, rakers to AASHTO M223 GD 65

(B) Raker braces, transoms, top chord braces, swaybraces, transom braces, diagonal chord braces, decking to AASHTO M223 GD 50

(C) Panel pins to ASTM A 193 GD B7

(D) Bolts to AASHTO M164M – A325

acrow.com
bridges@acrow.com
+1.973.244.0080