

DESIGNERS MEETING

Minutes for May 14, 2025

1:00 PM – 2:00 PM

Jacob Paul, Secretary

TOPICS

- **Topic 1: InQuik Bridge System**

Topic 1: InQuik Bridge System

- First bridge delivered in 2023 in the U.S.
- Made in America with American materials
- Approval from 20 states including Pennsylvania and New York
- It is a reinforced concrete structure
- Modular solution
- Everything is manufactured in a fab shop
 - Rebar and forms done at fab shop
 - Concrete placed onsite
- Components are lightweight, so no permits are required
- 61 feet longest single span
- Concrete placed onsite
- Heaviest pieces are 10 tons
- 3 standard skews: 10, 20, and 30 degrees
- Only need 4-man crew and all parts can be lifted with an excavator
- Manufactory facilities in Georgia and Virginia
- **Colorado Example**
 - 6 weeks of design
 - 70-foot-deep steel pile foundations due to scour issues
 - 60 feet long
 - Abutments and wing walls designed with 4 inches of tolerance for steel H piles
 - Slope can be built into the abutment
 - Took what would have taken 3000 man-hours to 450 man-hours
- Forms are not structural, so they can be removed and reinstalled if desired
- Forms are created from a corrosive-resistant material called ZAM (zinc, aluminum, magnesium) and are 1/8" thick
- Can add up to a 4 inch overlay
- Weep hole can be added in the forms
- No work under the structure required
- Can put new superstructure on existing abutments (happened in Pennsylvania)
- HL-93 minimum design load
- Standard camber for different lengths

- Rebar truss within the beam
- No variable beam depth

End of Minutes