



EDUCATION

- University of Nevada, Las Vegas
 - Bachelor of Science, Civil Engineering, 2001

PRACTICE AREAS

- Bridge and Marine Infrastructure
- Concrete Repair and Rehabilitation Design
- Construction Engineering
- Precast and Prestressed Concrete
- Research and Testing

REGISTRATIONS

- Professional Engineer in DE, FL, MD, NJ, NY, and VA

PROFESSIONAL AFFILIATIONS

- American Concrete Institute
- Precast/Prestressed Concrete Institute

TECHNICAL COMMITTEES

- ACI - 239, 239C, and 239D
- PCI - Bridges, past vice chair
- PCI - Concrete Materials Technologies
- PCI - Ports and Marine Structures
- PCI - Prestressed Piles, past chair
- PCI - Structural UHPC, chair

CONTACT

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EXPERIENCE

JP Binard consults on design and construction or rehabilitation of concrete for bridges, buildings, and marine structures. He has more than twenty years of experience in concrete design, detailing, and construction. Mr. Binard specializes in construction engineering of precast and precast, prestressed concrete components in heavy civil infrastructure applications. He was chief engineer at a large precast fabricator owned by a major civil contractor in the mid-Atlantic region and had his own business for seven years, which was focused on ultra-high-performance concrete (UHPC) research and development. Mr. Binard is an industry leader and a past chair or member of several Precast/Prestressed Concrete Institute and American Concrete Institute technical committees.

REPRESENTATIVE PROJECTS

Bridge and Marine Infrastructure Design

- 91st Street Marine Transfer Station - New York, NY: Alternative design of prestressed caps on drilled shafts as well as prestressed fender beams and a precast cofferdam shell
- Alexander Road Bridge - Princeton, NJ: NEXT Beam prestressed design with UHPC joints
- Dominion Boulevard - Chesapeake, VA: Design of various depth prestressed bulb tee girders for conventional HL93 loading
- Dulles Corridor Metrorail Project - Tysons, VA: Design of pedestrian bridge with prestressed girders and full depth prestressed deck slabs supporting steel canopies and ancillary structures
- Dundalk Marine Terminal, Berth 4 - Baltimore, MD: Alternative design of prestressed concrete caps with integral fascia elements on prestressed concrete piles
- East Side Coastal Resiliency - New York, NY: Design of pedestrian esplanade greenspace with adjacent prestressed deck bulb tee system with UHPC joints and integral parapets on existing caps and piling
- Masonville Vessel Berth - Baltimore, MD: RORO berth and heavy loading deck; alternative precast design
- East Midtown Greenway - New York, NY: Design of pedestrian greenspace along the East River with precast, prestressed tubs, an integral deck, and UHPC joints

- LaGuardia Airport Frontage Road Structure - Queens, NY: Design of dapped, prestressed concrete bulb tees with bollard attachments
- Pier C - Brooklyn, NY: Design of non-prismatic precast caps and prestressed trench boxes with fender attachments
- Pier 5, Aircraft Carrier Mooring Pier - Portsmouth, VA: Alternative design of prestressed caps and ancillary precast structures on spun-cast cylinder piles
- New Jersey Wind Port - Salem: Heavy offshore wind berth; design prestressed caps on square piles and alternative design for precast fascia panels with precast fender attachments
- Tidewater Community College - Chesapeake, VA: Design of double tees for a pedestrian walkway and utility support over catch basin

Construction Engineering

- Fore River Bridge Cofferdam Shell - Quincy, MA: PM and technical lead on fabrication of match-cast segments for installation of segmented waterline footing at a lift bridge
- Hampton Roads Bridge Tunnel - Hampton, VA: Construction engineering and support for precast concrete caps and bulb tee girders
- Pier 26 - New York, NY: Rigging and precast handling for a tidal eco pier supporting a continuous pedestrian walkway
- Tappan Zee Bridge Replacement - Westchester County, NY: PM and technical lead on fabrication of waterline footings and design to rehabilitate an existing barge slip using existing piling

Research and Testing

- UHPC Ultra Girder Project - FHWA: Principal investigator; fabrication and delivery of prestressed UHPC girders for full-scale testing
- SBIR FH20, Modular Lightweight Precast UHPC Deck System - FHWA: Principal investigator on design and testing of a UHPC deck alternative in partnership with the University of Nebraska-Lincoln