



As Private-Public Partnerships (P3) continue to offer public transportation owners viable project funding solutions for much needed infrastructure across the United States, private entities take on additional project delivery risks such as managing the materials quality standards that public agencies specify on high-profile P3 projects.

HRV Conformance Verification Associates, Inc. (HRV), a certified DBE/WBE, specializes in materials quality assurance inspection and monitoring the technical performance of contractors and fabricators to ensure compliance to construction materials specifications. We are **Quality. Assured.**

Inspection is our only business. It is not an ancillary service offered within a multidiscipline global conglomerate. This greatly contributes to HRV's reputation as one of the top materials inspection firms in the country. HRV's focus stems from a core set of values based on our longstanding guiding principle (attributed to Willa A. Foster): *"Quality is never an accident; it is always the result of high intention, sincere effort, intelligent direction and skillful execution."*

HRV consistently delivers quality services through personnel recognized in the transportation industry for their professionalism, qualifications and technical expertise. With a staff of over 200 trained and certified inspectors nationwide, HRV currently provides quality assurance inspection at the most commonly used bridge fabrication facilities throughout the United States, or easily supplements contractors' field personnel at job sites.

HRV's services include inspection of steel, coatings, aluminum, concrete, timber, and fiber-reinforced polymer (FRP); non-destructive testing (UT, MT, PT, VT, and RT film interpretation); materials sampling; high-strength bolt testing; review of trial assembly inspections and/or virtual assemblies; facility assessment audits; expediting; field coatings inspection; technical consultation (welding engineering, expert witness); and technical training.

With an international resume covering the US, Canada, China, South Korea, Belgium, Germany, Spain and other countries, HRV has performed on a number of high-profile P3 and Design-Build (D-B) projects over the past 10 years. This includes two highly prominent P3 and D-B projects currently in construction: The Goethals Bridge (NY/NJ) and The Tappan Zee Bridge (NY Hudson River Crossing). **Please see reverse side summarizing HRV's related project experience.**



HRV'S CORE CAPABILITIES

Materials Testing & Inspection

- Shop/Field QA Inspection
 - Steel
 - Paint/Coatings
 - Concrete
 - Fiber Reinforced Polymer
 - Timber
- Nondestructive Testing
- High-Strength Bolt Testing
- Materials Sampling

Field Coatings Inspection

- Corrosion Surveys
- Corrosion Failure Assessments
- Paint Sampling
- Paint System Analysis
- Verification of Paint Application
- Monitor of Environmental Conditions
- Lead Abatement Procedures Review

Consultation & Engineering

- Facility Assessments
- Weld Procedure Reviews
- Expediting
- Construction Management/Construction Inspection
- Personnel Training/Certification

| Credentials/Certifications | # of Employees |
|----------------------------|----------------|
| Professional Engineer | 4 |
| Civil/Welding Engineer | 9 |
| Mechanical Engineer | 1 |
| NICET Levels I, II and III | 4 |
| ACI Field Testing | 29 |
| NETTCP | 7 |
| API 570/API 653 | 2 |
| AWS Certified Welding | 150 |
| ASNT Levels I, II and III | 42 |
| NACE Levels 1, 2 and 3 | 28 |
| SSPC | 14 |
| PCI Levels I, II and III | 17 |
| ICC Special Inspectors | 6 |
| CM/CI (PE, CCM, NICET) | 11 |

HRV Conformance Verification Associates, Inc.

420 Rouser Road, Suite 400
Moon Township, Pennsylvania 15108
412.299.2000
www.hrvinc.com

Melissa Caruso (mcaruso@hrvinc.com)
Director of Marketing and Business Development



\$3.98B Tappan Zee Bridge Replacement Design-Build Project

<https://www.transportation.gov/tifia/financed-projects/new-ny-tappen-zee-bridge-replacement>

- *Client: New York State Thruway Authority*
- *Team: Tappan Zee Constructors, LLC (Fluor, American Bridge, Granite, and Traylor Bros., along with key design firms HDR, Buckland & Taylor, URS, and GZA)*
- *Description: Project involves the construction of a new cable-stayed, twin span, bridge*
- *Services: Shop/field inspection services (weld inspection, coatings inspection) and nondestructive testing services for the entire project. To date this includes:*
 - *40 HRV Inspectors with CWI and ASNT Level II*
 - *47 different fabrication facilities (Steel), project site, and Canada (TBD)*
 - *Reviewed over 10,000 DRT images*

\$1.5B P3 Goethals Bridge Replacement Project

<https://www.transportation.gov/policy-initiatives/build-america/goethals-bridge-replacement-project-staten-island-nynj>

- *Client: Port Authority of NY & NJ*
- *Team: NYNJ Link Developers (Kiewit Infrastructure, Weeks Marine, Massman Construction, Parsons Transportation Group of NY, NYNJlink, and Manhattan MBDA Business Center)*
- *Description: Project involves lane widening, adding pedestrian bike/walkway and updating with smart bridge technology*
- *Services: Construction Inspection; Inspection of Steel, Concrete Products, & Misc. Metal Products; Coatings Inspection; and Nondestructive Testing (UT& MT, RT Film Interpretation). To date this includes:*
 - *10-15 HRV Inspectors with CWI, PCI, ACI, NICET, ASNT, and NACE certifications at twenty different fabrication facilities/site*

\$2.068B I-495 Capital Beltway HOT Lanes P3 Project

<https://www.transportation.gov/policy-initiatives/build-america/i-495-capital-beltway-hot-lanes-fairfax-county-va>

- *Client: Virginia Department of Transportation*
- *Team: Capital Beltway Express, LLC (Fluor and Transurban)*
- *Description: Project involved replacement of aging infrastructure including approximately 50 bridges and overpasses*
- *Services: Shop inspection of structural steel, sign structures, and miscellaneous metal products at various fabrication facilities.*

\$1.8B PA Rapid Bridge Replacement P3 Project

<https://www.transportation.gov/policy-initiatives/build-america/Pennsylvania%20Rapid%20Bridge%20Replacement%20Project%2CStatewide>

- *Client: Pennsylvania Department of Transportation*
- *Team: Plenary Walsh Keystone Partners (Plenary Group, The Walsh Group, HDR Engineering, Granite Construction Company)*
- *Description: Project involves the replacement/rehabilitation of 558 Steel & Concrete Bridge Structures*
- *Services: QC inspection coverage. To date, HRV has provided services at 60 different job sites.*

\$634M Portsmouth Bypass P3 Project

<https://www.transportation.gov/tifia/financed-projects/portsmouth-bypass>

- *Client: Ohio Department of Transportation*
- *Team: Portsmouth Gateway Group (Dragados, The Beaver Excavating Company, Jurgensen, ms consultants, HDR Engineering, ACS Infrastructure Development, and InfraRed Capital Partners)*
- *Description: Project involves the construction of 20 new bridge structures - 2 steel and 18 concrete*
- *Services: Shop inspection services during the fabrication of steel and concrete products*
 - *CWI and PCI Certified Inspectors at three different fabrication facilities*

\$235M Verrazano-Narrows Bridge Upper Level Deck Replacement

<http://www.mta.info/press-release/bridges-tunnels/2357-million-verrazano-narrows-upper-deck-and-hov-project-awarded>

- *Owner: New York City Metropolitan Transportation Authority (MTA); Bridges and Tunnels*
- *Team: Tutor Perini Civil Group*
- *Description: Project involves the replacement of the existing concrete-filled steel grid deck at the upper level with a new steel orthotropic deck*
- *Services: Quality assurance services during the fabrication of steel girders. To date this includes:*
 - *Facility audits, weld inspection, and nondestructive testing*
 - *Presence at China Railway Shanhaiguan Bridge Group located in the Hebei Province, P.R. China*