



Chase R. Howard, E.I.T. Designer

Education: B.S. – Drexel University, Philadelphia PA

Registrations: EIT, PA

Years of Experience: 6.5 **Years with Firm:** 6

Professional Experience:

Chase Howard, a graduate of Drexel University in 2011, has rapidly developed into the primary CAD/Design individual in the firm. With additional training from the University of Wisconsin in specific AutoCAD rail design elements, Mr. Howard has been the primary design individual for siding and track projects. Chase also assists on bridge inspection and bridge rating projects. Chase has had formal training in track inspection through the Railroad Track Inspection and Safety Standards Seminar at the University of Tennessee in Chattanooga and Track Inspection coursework with noted authority John Zusan of Track Guy Consultants that has included certification in Thermal Forces.

Chase interned with Bala Consulting Engineers, Inc., a Structural Engineering Firm in King of Prussia, PA. While at Bala Consulting Engineers, Chase designed foundations and earth retaining structures and designed and analyzed structural steel framing systems and concrete floor slabs. Chase also assisted in various LEED certified projects.

Chase also interned at CMX Engineers in Lansdale PA. While at CMX, Chase worked closely with project engineers and landscape architects to ensure site-development specifications were met. Chase also assisted the municipal department and surveying department to complete projects concerning local municipalities.

Since coming to Stone Consulting, Inc. in June 2011, Chase has been designing rail sidings, rail yards and other main line rail projects including the entire track design for the Delmar Loop Trolley in St. Louis, MO, as well as assisting in various rail related planning projects.

Project Experience:

Chenango County Rail Project, NY

Stone Consulting was selected to provide rail and bridge inspection and design for the rehabilitation of 45.54 miles of railroad track that has been unused since 2006. Chase assisted in the inspection of the line and bridges, tabulating the results and preparing the plans for modifications to bridges, repairs to wash-outs, drainage design and repairs, and track rehabilitation.

United Refining Company / Kiantone Pipeline Corporation – Crude Oil Unloading Facility West Seneca NY

Chase provided the track design to meet NS standards and accommodate unloading racks for unloading crude oil. During the planning and design portions of the project, he met with the client and unloading rack manufacturers to optimize project phasing and operations. Chase also assisted in cost estimating for the project for the multiple phases.



Hodge Foundry, Greenville, PA

Track design for a rail line to connect from the Hodge Foundry facility to the former Bessemer & Lake Erie Railroad, now owned by Canadian National. Rail line is to carry overweight and oversize foundry castings.

Saratoga & North Creek Railroad, Saratoga Springs, NY

Iowa Pacific Holdings

Chase coordinated with engineers and inspectors to develop updated track charts that included rail sidings, rail yards, grade crossings, bridges, and other track features. This also included providing mapping to include county and park boundaries in relation to permitting.

Mount Hood Railroad, Mount Hood, OR

Iowa Pacific Holdings

Chase designed new track profiles to accommodate for a track raise for the placement of new culverts in a salmon mitigation project on the Hood River. He also assisted in the rating of simple span, thru-truss, and deck plate girder bridges for the Mount Hood Railroad.

Texas State Railroad, Palestine, TX

Texas State Railroad Authority

Design of Mewshaw Siding including submission and review by TXDOT.

Delmar Loop Streetcar Project, St. Louis, MO

Design of 2 miles of in-street track for streetcar project as well as passing sidings and yard. Provided quantity take offs and curve tables. Project included several different track structures for placement in streets, street islands and a park.

