

**Stone Consulting, Inc.**

## **Shortline Railroad Projects**



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# Stone Consulting, Inc.

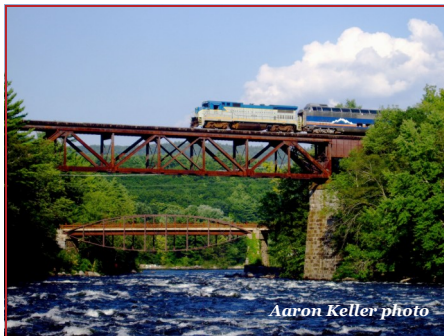
## Shortline Railroad Projects

### Services Offered—Project Management . . .

#### Iowa Pacific Holdings, Chicago IL

Beginning in 2011, Stone Consulting, Inc. was retained by Iowa Pacific Holdings to be their Chief Engineer.

Iowa Pacific Holdings (IPH) operates six railroads in the United States in New York, Texas, New Mexico, Illinois, Oregon and Colorado. Stone Consulting has worked with each of these properties in order to stretch the engineering and maintenance-of-way budgets and produce better infrastructure in order to serve key industries and customers throughout these regions.



During the summer of 2011, we provided in-depth services in the historic start-up of the Saratoga & North Creek Railroad in upstate New York through the fragile eco-system of the Adirondack Park. This 56-mile railroad was the first new start up of an FRA Part 238 & 239 passenger railroad. Stone Consulting was involved with FRA compliance issues related to track, operations and bridges and developed the first approved FRA Part 237 Bridge Management Program. Stone guided Iowa Pacific in infrastructure issues throughout the complete start-up process that brought this long, out-of-service line into operating condition in under 50 days.

For the Mount Hood Railroad in Hood River Oregon, also a property of IPH, we provided the engineering assistance to become fully FRA Part 237 compliant. This included inspections for their entire inventory of bridges and also a study of the capacity for every bridge. The “bridge rating project” included the computer modeling and analysis of a 150’ long thru truss bridge over the Hood River. Stone Consulting, Inc. also provided engineering assistance for a grant application to upgrade timber trestles with more resilient steel members.



We then moved our focus to lines in Texas and New Mexico that needed substantial capital expenditures in the form of ties, ballast, surface and CWR installation. We provide on-site guidance and engineering for IPH and guiding the contractor in performing proper work that will enhance operation and inspection that maximizes quality control issues.

Other projects for this client have included Wetland Creation in the Columbia River basin; Herbicide Permitting with the Adirondack Park of New York; Bridge & Structure issues related to FRA Part 237 and other engineering expertise related to structures and track including track chart development and updates and new grade crossing installations.



**2011-Present**

**Contact: Mike McConville (608) 359-1088**



## . . . Track Rehabilitation

### Allegheny Valley Railroad, Oakmont PA

Stone Consulting, Inc. has completed many and varied projects for this dynamic client:

- Glenwood Yard Phase I - Redesign of a former CSX rail yard funded by a RCAP grant from the Commonwealth of Pennsylvania.
- Glenwood Yard Phase II - Continuation of the redesign of the rail yard to accommodate better track spacing and a more suitable track layout for current day operations.
- In conjunction with the Glenwood Yard project, we assisted the AVR with the evaluation and sale of the used track materials as a credit to the total project costs.
- Bridge Street Grade Crossing Project - Reconstruction of a rail crossing at a very busy intersection funded with Federal grade crossing funds.
- 40th Street Connector - Created a much more efficient connection to CSX. Project included removal of existing track, turnouts and crossings and reconstruction on new alignment and profile with all new materials. Also included negotiation with landowners and coordination with the City of Pittsburgh.
- Capital Budget and RFAP Applications from 2000 - 2011.
- Butler Plank Grade Crossing - Design, bidding, project management, inspection of new grade crossing related to the construction of a new Walgreens facility - 136' concrete panel crossing.
- Tie Rehabilitation - P&W - Gaging and tie replacement on 17 miles of P&W Subdivision. Project Management including specifications, bidding, tie marking and inspection - 15,000 ties.
- Tie Rehabilitation - W&P - Gaging and tie replacement on 12 miles of W&P Subdivision done in two projects. Project Management including specifications, bidding, tie marking and inspection - 20,000 ties.
- Complete rebuild of the Indian Run Branch line including the reconstruction of 7 fully reconditioned turnouts with new timber & ballast, 3110 TF of standard track using Class One relay rail, new ties and ballast and 368 TF of at-grade road crossings using all new materials from the subgrade up. New storm drainage consisting of 10 new catch basins and 400' of storm drainage pipe.
- Design and project management of spur track with Hazardous Material Transloading Facility off AVRR main into Sunoco facility.
- Capital improvements grant application for \$5.4 million project replacing worn jointed rail with Class One welded rail along 6 miles of AVRR main, tie renewal and grade crossing upgrade.
- Track rehabilitation of 7 miles including 7,000 ties, switch timber & surfacing of the Brilliant Branch, Pittsburgh Branch and Main Line.
- Flood Damage Appraisal, cost estimates, plans and specifications to reconstruct two rail lines damaged by flooding in the Pittsburgh area. Project includes interfacing with the flood insurance carrier, bidding the project along with providing on-site inspection during the reconstruction efforts.

**1997 - 2011**

**Contact: Russ Peterson, CEO**

**(412) 426-2000**

**40th Street Connector  
Before & After**





## . . . Design of Industrial Sidings and Transloading

### United Refining Company, Warren PA

In 2008, United Refining Company of Warren PA required a tank car unloading area in order for them to bring in ethanol by rail to blend with their gasoline products. Stone Consulting, Inc. designed the track siding, spill containment system and provided the specifications and design assistance for top of car access system. The 7 car unloading station design is expandable to add an additional 5 car unloading station on the opposite side using the same top of car access rack system.

**2008**

**Contact: Dave Dorn (814) 726-8004**



### Bionol Clearfield, LLC, Clearfield PA



Stone Consulting was retained by Bio-Energy International LLC to help develop an ethanol site in Clearfield County PA along R. J. Corman Railroad's Wallaceton Sub. After assisting with on-site layout and rail access for several sites that were eventually rejected, a site was finally located that met all of the company's parameters. Stone assisted in the development of the rail access for the site, track rehabilitation, new track design and construction, "weigh in motion" scale and car storage tracks. We also advised on planning issues such as required car storage capacity and operational issues.

**2009**

**Contacts: Thomas Hoole (617)657-5212 or Jason Little (814) 765-1938**

### Greater Erie Industrial Development Corporation (GEIDC)

The construction of the Erie BioFuels biodiesel plant is a major project for the City of Erie revitalization effort. Stone Consulting, Inc. was retained by GEIDC, in partnership with SB3 Corporation, to design the rail yard and rail loading and unloading facilities for the new \$35 million plant on the site of a former International Paper manufacturing facility.

The rail component of this new plant is a \$4.2 million project.

**2006 - 2008**

**Contact: Bob Grice (814) 899-6022**



### Camp Chase Railroad Company Sunoco Partners Marketing & Terminals L.P.



This new, \$1.6 million unloading facility in the suburb of Columbus OH has the capacity to unload 6 tank cars of ethanol at one time. Stone Consulting, Inc. was the Lead Designer and Project Manager of the side track, mainline track realignment and unloading area secondary containment system.

This was a fast-track design-build project that was completed in less than 120 days from preliminary drawings to final construction and the first train into the facility.

**2006**

**Contact: Russ Peterson, CEO (412) 426-4000**



## . . . Design of Track and Crossings

### Westmoreland County IDC, Greensburg PA

Simultaneous Class-1 abandonments of intersecting branch lines in Westmoreland and Fayette counties created a new shortline railroad opportunity. By combining the two marginal branch lines into a single-operator property, a vital new rail operation was created.

Stone Consulting, Inc. staff has provided these services to this highly successful client:

- Engineering, administration & inspection for a number of track rehab projects ranging from 6 to 23 miles over 10 years.
- Monessen Riverfront Development - Construction of 2,400' of new track for a transloading facility including 1,000' of asphalt embedded track, 2 turnouts and track rehabilitation.
- Design, permitting and inspection of rail access for glass plant constructed adjacent to Sony in the Westmoreland Technology Park which included 9000' of track with 14 crossings.
- New siding at Radebaugh.
- Develop conceptual design for two-mile cut-off to Westmoreland Yard, which will eliminate over seven miles of line.
- Assistance with rail operator selection.
- Emergency bridge repairs.
- Rail Freight Grant Applications from 2000 - 2010.



**Radebaugh  
Interchange Siding  
Before & After**



**1995—2010**

**Contact: George Church, Project Administrator  
(412) 830-3610**

### Western New York & Pennsylvania Railroad, Lakeville NY

We were retained by the Livonia Avon & Lakeville Railroad to help lease the trackage from Hornell NY to Corry PA owned by Norfolk Southern Corp. The lease was signed and the WNY&P Railroad was formed. Gary Landrio of our office had worked to save this railroad since the early 1990s and was intimately involved in the negotiations. The WNY&P began operations on April 26, 2001. We assisted the WNY&P on the following projects:

- A safety tie replacement project replacing 1,100 ties including a \$750,000 PA Capital budget project to replace ties on a 28 mile stretch from Corry to the New York state line, bringing the track up to Class 3 standards.
- Design and construction management of the Falconer Operations Center.
- Designed & administered 5 major projects for track rehabilitation and CWR installation.
- Designed & supervised emergency bridge washout repair in Friendship NY.
- Provided engineering services for bridge repair evaluations and FRA part 237 compliance.
- Next day field response for emergency engineering services following derailment near Cochranon, PA.
- 87 Grade crossing designed and engineered in New York and Pennsylvania.



**2001-2013**

**Carl Belke, Chief Engineer (585) 346-2090**



## . . Bridge Inspections, Ratings, Rehabilitation & Replacement

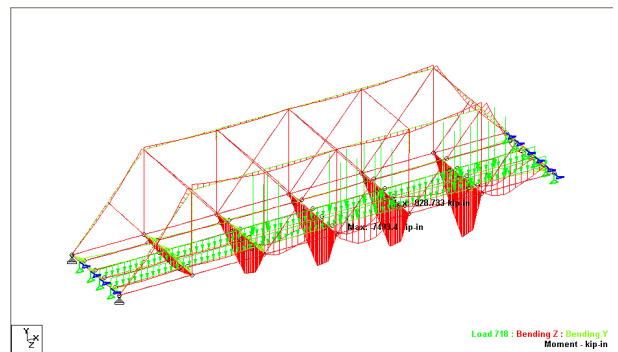
**Stone Consulting, Inc. can assist in all aspects of your FRA part 237 mandated bridge management program beginning with the mandatory bridge inspections.**

Stone Consulting, Inc. has performed bridge inspection and bridge engineering work for the following clients:

Arcade & Attica Railroad  
 Ashtabula, Carson & Jefferson  
 Camp Chase Railroad  
 Chenango County IDA  
 Chicago Terminal Railroad  
 Duferco Farrell Corporation  
 Eastern Berks Gateway  
 Georges Creek Railroad  
 Georgia State RR Museum

Greater Erie Industrial Development  
 Heber Valley Railroad  
 Meridian Southern  
 Morristown & Erie Railroad  
 Mount Hood Railroad  
 New Hope Valley  
 NRG Huntley Plant Trestle  
 Owego & Harford Railroad  
 RJ Corman (Beech Creek Line)

Rosebud Mining Company  
 Rusk, Palestine, & Pacific  
 Santa Cruz & Monterrey  
 Saratoga & North Creek  
 South Branch Valley Railroad  
 Western Maryland Scenic  
 Western NY & Pennsylvania  
 West Virginia Central  
 Whitewater Valley Railroad



**We provide on site inspections, computer load modeling, Bridge Management Plan assistance, and Project management for all of your bridge related needs.**

### **Camp Chase Industrial Railroad Broad Street Bridge Rehabilitation**

Stone Consulting Inc. provided the project management for the concrete restoration of the Camp Chase Railroad bridge over West Broad Street (Route 40) in Columbus Ohio. The result is the “like new appearance” of all concrete surfaces of the bridge. The project was completed in 2010, with funding from the American Recovery and Re-Investment Act of 2009.



**Contact: Russ Peterson, CEO (412)426-2000**

### **Western New York & Pennsylvania Railroad Keating Summit Highway Overpass Rehabilitation**

Stone Consulting completed a structural analysis and then the replacement of a very heavy concrete deck with a much lighter treated timber deck for a truss bridge at Keating Summit, PA.



**2010**

**Contact: Carl Belke, Chief Engineer (585) 346-2090**



## . . . Grant Applications

Stone Consulting offers assistance in many manners of Grant Applications. We have trained personnel on staff and we are familiar with many different grant opportunities including, but not limited to preparation, management, and closeout of:

- |                 |                  |                         |
|-----------------|------------------|-------------------------|
| S.T.E.P. Grants | TIGER Grants     | Rail Freight Assistance |
| ISTEA           | State DOT Grants | Section 130 Funding     |

### **The Clearfield Foundation, Clearfield County, PA**

HRI, an asphalt contractor, agreed to purchase an industrial site from the Clearfield Foundation in the Fireman’s Industrial Park if sidings could be installed to accommodate their proposed asphalt storage facility. Stone Consulting assisted in obtaining a grant and provided design, inspection, and construction management for the three siding project.

**2010-2011**

**Contact: Tom Stojek (814)765.7560**

### **Ellwood Quality Steels Company New Castle PA**

We were responsible for applying for capital budget grants as well as the project management and design.

**2005—2008**

**Contact: Rich Schochet, Plant Manager  
(724) 658-6515**



**Before & After**

### **Erie Forge & Steel, Inc., Erie PA**

Stone Consulting, Inc. was responsible for the project management, design, bidding and inspection of the removal and reconstruction of track, turnouts and grade crossings to alleviate problems related to oversized loads.



**Before & After**

**2007—2008**

**Contact : Joe Goff, Plant Manager (814) 452-2300**

# Services Offered

Stone Consulting, Inc. offers services to fill your every need in the railroad industry.

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## Appraisals / Financial:

- ◆ Ridership Surveys
- ◆ NLV Appraisals
- ◆ Rolling Stock Appraisals

## Bridges:

- ◆ FRA Part 237 Bridge Management Plans
- ◆ FRA Part 237 Bridge Inspections
- ◆ Bridge Ratings
- ◆ Computer Load Modeling
- ◆ New Bridge Design
- ◆ Bridge Rehabilitation Plans

## Construction Management:

- ◆ Specification Writing
- ◆ Bid Management
- ◆ Permitting
- ◆ Contract Management
- ◆ Construction Inspection

## Environmental:

- ◆ Erosion and Sedimentation Plans (BMP's)
- ◆ Spill Prevention, Control, & Countermeasures
- ◆ Federal, State, and Local Permitting
- ◆ Wetland Mitigation
- ◆ Storm Water Management

## Grants:

- ◆ Grant Writing
- ◆ Procurement Integrity
- ◆ Lifespan Management

## Facilities:

- ◆ Site Grading and Design
- ◆ Shop / Maintenance Building Design
- ◆ Utilities
- ◆ Roadway Access
- ◆ Transloading

## Mechanical:

- ◆ Diesel Locomotive
  - ◇ Inspections
  - ◇ Maintenance Program Management
  - ◇ Appraisals
- ◆ Passenger Car Structural Inspections
- ◆ Steam and Form 4 Program Management

## Project Management:

- ◆ Railroad Start-up
- ◆ Capital Trackage Rehabilitation
- ◆ FRA Compliance
- ◆ Grade Crossing Signal Renewals
- ◆ Capital Infrastructure

## Track:

- ◆ Yard Designs
- ◆ Terminal Layout
- ◆ Drainage Plans and Design
- ◆ Sidings
- ◆ FRA Compliant Track Inspections

Stone Consulting, Inc. offers this full range of services throughout North America. We have had projects in 43 states, Canada, Mexico, and the Philippines. We have Professional Engineers on staff that are licensed in 47 states. Our diverse staff has expertise with track inspection, drainage, financial analysis, structural engineering, and environmental issues. Our staff also has "hands on" railroad experience in Operations, Mechanical, and Maintenance-of-Way.

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## Stone Consulting, Inc.

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