

**Expression of Interest for**

## **Professional Engineering Services**

for the

### **Timber Pile-Supported Pedestrian Boardwalk Stonewall Jackson Resort State Park Lewis County, WV**

Submitted To:  
**West Virginia Division of Natural Resources  
Parks and Recreation Section  
1900 Kanawha Boulevard, East  
Charleston, West Virginia 25305**

**Due 1:30 PM, May 12, 2009**

Submitted By:  
**Stantec Consulting Services Inc.**  
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Buckhannon, West Virginia 26201  
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**TIMBER PILE-SUPPORTED PEDESTRIAN BOARDWALK  
STONEWALL JACKSON RESORT STATE PARK**

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# **SECTION I**

**Letter of Interest**

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STONEWALL JACKSON RESORT STATE PARK**

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May 12, 2009

West Virginia Division of Natural Resources  
Parks and Recreation Section  
1900 Kanawha Boulevard, East  
Charleston, WV 25305

**Reference: Expression of Interest  
Timber Pile-Supported Pedestrian Boardwalk  
Stonewall Jackson Resort State Park**

Dear Selection Committee:

Stantec Consulting Services Inc. is pleased to submit this Expression of Interest for the above referenced project. As we will demonstrate in this submittal, Stantec has the necessary experienced personnel supported by the required resources to complete the needed work in a timely and cost effective manner.

Our personnel will complete the topographic mapping, boardwalk alignment, structural design, construction drawings, specifications, bidding documents, erosion and sediment control plans, and all permit applications. We are also experienced in contract administration, construction inspection and material testing services if these services become necessary. Stantec provides the unique opportunity of providing all services needed for the successful completion of your project.

We appreciate the opportunity to offer our services, and look forward to presenting our qualifications in person. If you have any questions, or require additional information, please feel free to contact me at your convenience.

Respectfully,

**STANTEC CONSULTING SERVICES INC.**

Gregory S. Linder, PE  
Project Manager

Tel: (304) 472-7140  
Fax: (304) 472-6239  
greg.linder@stantec.com

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## **SECTION II**

**Firm Overview**

## TIMBER PILE-SUPPORTED PEDESTRIAN BOARDWALK STONEWALL JACKSON RESORT STATE PARK

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Who Are We?

### **Stantec**

One Team. Infinite Solutions.

Stantec, founded in 1954, provides professional design and consulting services in planning, engineering, architecture, surveying, economics, and project management. Continually striving to balance economic, environmental, and social responsibilities, we are recognized as a world-class leader and innovator in the delivery of sustainable solutions. We support public and private sector clients in a diverse range of markets in the infrastructure and facilities sector at every stage, from initial concept and financial feasibility to project completion and beyond.

In simple terms, the world of Stantec is the water we drink, the roadways we travel, the buildings we visit, the industries in which we work, and the neighborhoods we call home.

Our services are offered through over 8,500 employees operating out of more than 125 locations in North America. Stantec trades on the NYSE under the symbol STN.

### **Company History in West Virginia – R.D. Zande to Stantec**

R.D. Zande & Associates was established in 1968 in Columbus, Ohio. Functionally organized in five departments – Environmental, Transportation/Structural, Land Planning/Development, Surveying, and Construction Services – the firm provides engineering, planning, and consulting services to both the public and private sectors.

In 1997 we opened an office in St. Albans, West Virginia to better assist our West Virginia clients. In order to better serve our clients in the Charleston region, the St. Albans office relocated to Charleston in the summer of 2007. Our West Virginia services were then further expanded by the acquisition of Miller Technical Services in 1999. Becoming R.D. Zande & Associates, this office, located in Buckhannon, West Virginia, offers a full range of the company's services across the state of West Virginia.

In December 2007, R.D. Zande and Associates entered into an agreement to become a part of Stantec. This deal, completed in early January 2008, allows clients of Zande to enjoy the benefits of increased capabilities and specialized expertise. The same familiar faces will conduct business in the same manner with our existing and new clients.

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# **SECTION III**

**Project Approach**

## **Project Approach**

We understand that the West Virginia Division of Natural Resources, Parks and Recreation Section, is soliciting expressions of interest from qualified consulting engineering firms to prepare construction plans and specifications for the proposed timber pile-supported pedestrian boardwalk at Stonewall Jackson Resort State Park in Lewis County, West Virginia.

This project will be performed from our Buckhannon, West Virginia office. We provide the unique advantage of having civil and structural engineers, transportation engineers, landscape architects, planners, surveyors and construction inspectors who have worked hand-in-hand with our clients on numerous projects. Additionally, our project team is well versed in the preparation of contract documents, which include the drawings and specifications, as well as performing the Construction Administration and material testing. As a result, these professionals know how to efficiently and cost-effectively work with all regulatory agencies.

We provide the unique ability to provide site assessment, planning, surveying, design, construction administration, material testing and project closeout all in house by our current personnel. Our staff is familiar with design policies and procedures applicable to this project and have worked on bridge projects throughout the state. We anticipate using Novel Geo-Environmental as our geotechnical sub consultants on this project. We have worked on many successful projects with Novel, therefore, the personnel at Novel will serve as a seamless extension of our staff.

This project will require experience in surveying, landscape architecture, structural design, and permit applications. We have extensive experience in all of these areas immediately adjacent to the project site in our Buckhannon Office.

Stantec has recently completed the design of 2 miles of US 35 in Mason County which included major and minor drainage design, design of large fills, maintenance of traffic, two sets of bridges, box culvert design, and sediment and erosion control plans.

Our survey crews are experienced in surveying this type of project. We currently have 3 Project Inspectors under contract with the WV Division of Highways overseeing bridge rehabilitation projects in southern West Virginia. These inspectors are completely familiar with the standards, practices and required documentation of this type of project.

To ensure the most efficient and up to date design we will use the current *National Design Specifications for Wood Construction* on this project. Our project approach will be straight forward, efficient and cost effective.

### Kickoff Meeting

We will have a kick off meeting with the designated representatives from the West Virginia Division of Natural Resources to completely understand the scope of work, available budget and time constraints.



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### Site Visit and Surveying

Topographic surveying will be performed for the project area to generate data to develop project base mapping. The base mapping will be utilized to most effectively select boardwalk alignment (vertically and horizontally).

### Boardwalk Alignment Design

Stantec will work closely with the West Virginia Division of Natural Resources to develop an alignment which minimizes avoidance to the existing landuse and maximizes the aesthetic environment. The alignment will blend with the existing topography as closely as possible, thereby reducing excavation, construction impact, and construction cost.

### Geotechnical Engineering

Subsequent to the alignment selection, our geotechnical engineer (Novel) will perform a subsurface investigation to determine foundation requirements for the timber piles.

### Structural Design

Stantec will perform structural design of all aspects of the multi-span timber pile-supported boardwalk including the timber piles, timber beams and decking, and connections. The design will optimize span lengths resulting in the most cost effective solution for the project. All structural design will be performed in accordance with the *International Building Code* and the *National Design Specifications for Wood Construction*.

### Bid-Ready Construction Plans and Specifications

All aspects of the design will be summarized in detailed construction plans and specifications.

### Engineers Opinion of Probable Construction Cost

Stantec will supply the West Virginia Division of Natural Resources with an Engineers Opinion of Probable Construction Cost based on bid item quantities and unit costs.

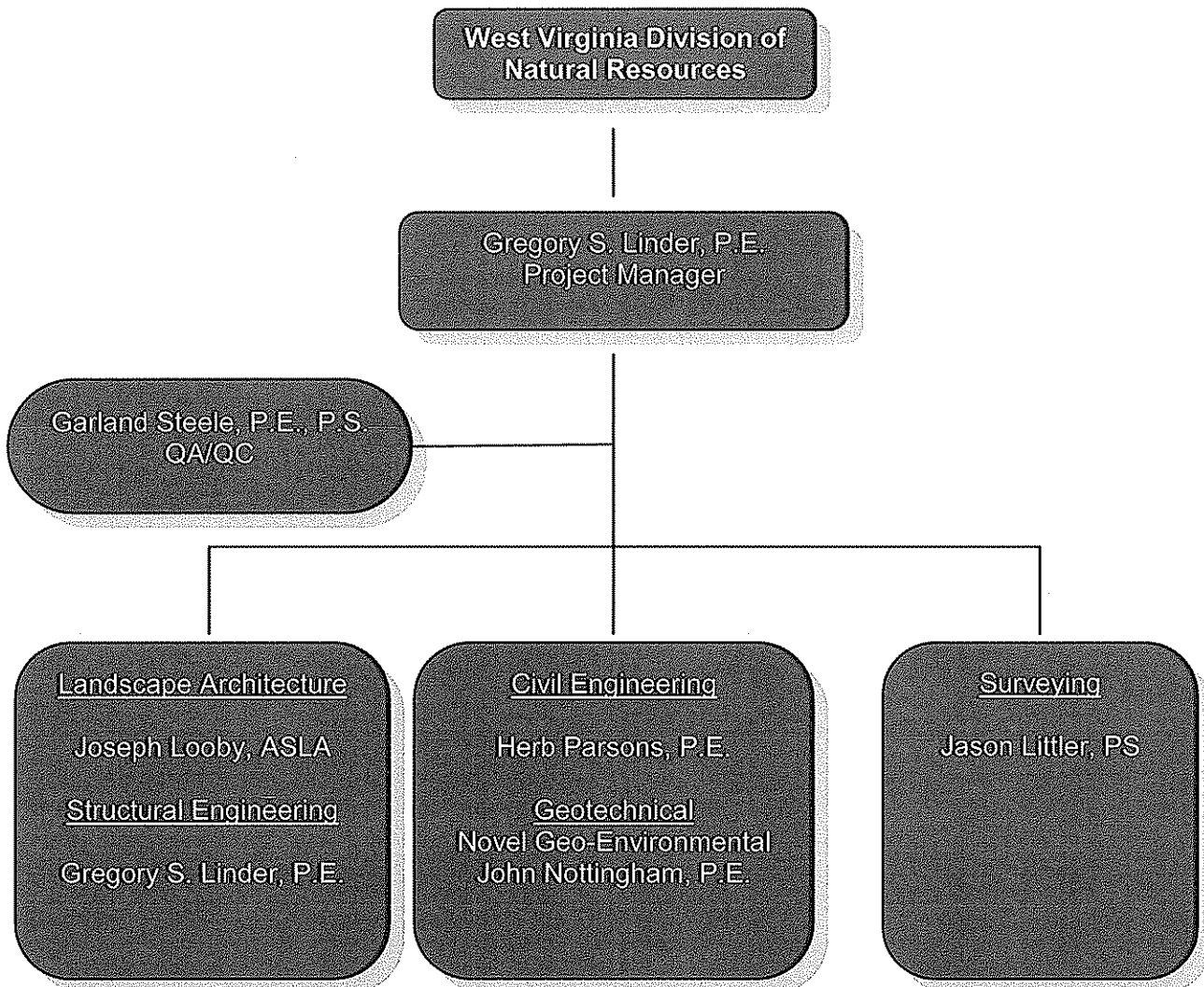
This project approach will ensure a safe, successful and cost effective solution to the challenges the West Virginia Division of Natural Resources faces with this project.

Even though Stantec has not provided engineering services to the West Virginia Division of Natural Resources, we have developed a long-standing relationship with WVDOH and WVDEP as reflected by the number of projects completed for those agencies.

The success of this team can be directly attributed to their commitment to maintaining the project schedule. We will meet the project schedule through proper project management, good communication and allocating the necessary resources to the project.

Our Project Team is well suited to provide the West Virginia Division of Natural Resources with a quality product. Our experience, expertise, and innovative approach to this project will ensure the delivery of a cost-effective product in a timely manner.

## Project Organization Chart



## **Key Personnel**

The successful completion of this project requires the blending of structural design, landscape architecture, permitting and construction services. These key professionals have worked together on numerous projects successfully achieving that perfect blend of “form and function.”

Our ability to rapidly mobilize collaborative teams of engineers and planners, designers and field personnel provides our clients with uniquely effective and qualified teams for project implementation from conceptual design through construction management. Key personnel who will participate in this project for the West Virginia Division of Natural Resources will be as follows:

### **Greg Linder, P.E., Project Manager and Structural Engineer**

With diverse experience in civil and environmental engineering, Mr. Linder joined R.D. Zande & Associates in 2004 as a Project Manager. Since July of 1998, his responsibilities have included the design, inspection, evaluation, and rehabilitation of highway and railroad bridges and the design and rehabilitation of retaining walls. Other responsibilities have included site design, mining remediation, stream bank stabilization, hydrologic and hydraulic analyses and performing environmental studies. Greg will oversee all structural aspects of this project.

### **Joseph Looby, ASLA, Landscape Architect**

Mr. Looby has been applying his talents to projects for twenty years: 15 with Stantec Consulting, 13 as a registered landscape architect, and 10 years as a project manager. During this time he has played many roles on a variety of projects however he is most effective when he manages multi-disciplined design teams. His experience in combining the creativity of landscape architecture with the technical knowledge of civil, traffic and transportation engineering makes him ideally suited to lead a team of professionals in a variety of planning efforts. This combination has been very effective in designing community parks, urban spaces, streetscapes, residential and commercial sites as well as large-site master planning, campus planning and community identity studies.

### **Garland W. Steele, P.E., P.S., Senior Transportation Engineer**

Mr. Steel has over 50 years experience in engineering and materials and was formerly the Chief Materials Engineer for the WV Division of Highways. He will provide design oversight and review and will oversee all non destructive testing and project inspection.

### **Jason Littler, P.S., Surveyor**

Mr. Littler has over 13 years of experience with responsibilities including such positions as Roadway Designer and Survey Project Manager. He has performed roadway design, site civil design, drainage computations, construction layout, earthwork volumes, topographical surveys, aerial control surveys, boundary surveys, WVDOH right of way plan development, courthouse research, deed work maps, survey plats, survey descriptions, earthwork volume computations, hydrology computations, WVDOH waste permits, plan preparation, subdivision plats, fine grade

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computations, and field crew management. He has been in professional charge of over 1000 boundary surveys ranging in size from small lot and partition surveys to large multi-tract 1000 acre surveys.

**Herb Parsons, P.E., L.S., Civil Engineer**

Mr. Parsons is an experienced site design engineer with over 13 years of engineering practice. His experience includes site design, planning, drainage design, erosion control and construction administration. Mr. Parsons has significant experience in water resources and erosion and sediment control.

**John Nottingham, P.E., Geotechnical Engineer, Novel Geo-Environmental**

Mr. Nottingham is an experienced geotechnical engineer and will be developing the soil boring layout plan, performing drilling operations and providing geotechnical recommendations.

## **Availability of Personnel**

Our current and projected workload combined with our depth of resources indicates that we will be able to begin work on this project immediately after receiving Notice to Proceed.

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**SECTION IV**

**Resumes**



Mr. Linder has a diverse experience in project management and civil engineering. Since May of 1998, his primary responsibilities have included the design, inspection, evaluation, and rehabilitation of highway and railroad bridges; secondary responsibilities have included all aspects of roadway design, hydrologic and hydraulic analyses, and performing environmental studies.

Mr. Linder has been involved with the engineering design and/or inspection of 52 bridges, including highway, railway, and pedestrian bridges. He has designed bridge structures for large, governmental clients, as well as smaller governmental units and private sector organizations. Several of these projects have been "high profile" projects, allowing Mr. Linder the experience of working under intense public scrutiny. In addition to bridge design, Mr. Linder has been involved with nearly 30 miles of roadway design, floodplain evaluation projects, streambank protection projects, site development projects, and environmental projects.

## EDUCATION

B.S., Civil Engineering, West Virginia University,  
Morgantown, WV, 1998

B.S., Biology, Fairmont State College, Fairmont, WV,  
1993

Natural Stream Design Level I, II, III, and IV Certified,  
West Virginia Division of Highways

## REGISTRATIONS

Professional Engineer #15629, State of West Virginia

Professional Engineer #24326, Commonwealth of  
Kentucky

Professional Engineer #PE074078, Commonwealth of  
Pennsylvania

## PROJECT EXPERIENCE

### Bridges

US Route 35, Mason County, WV  
(Project Manager)

*Project manager responsible for oversight, design, and plan preparation for structures carrying US Route 35 over Threemile Creek and Twomile Creek near Point Pleasant, WV. The Threemile Creek bridge consists 414.5' dual plate girder structures that are both 44.5' wide. The bridge substructure consists of integral abutments and cap and column piers supported on pile foundations. The Twomile Creek bridge consists 106.75' dual plate girder structures that are both 44.5' wide. The bridge substructure consists of integral abutments.*

Mile Branch Truss Bridge, McDowell County, WV  
(Project Manager)

*Project manager responsible for oversight, design, and plan preparation for the 180-foot, 22-foot wide steel bridge crossing the Dry Fork River. The bridge substructure consists of integral abutments and T-Type piers supported on caisson foundations. The project also involved 370' of new two-lane roadway design.*

Upper Tract Bridge, Pocahontas County, WV (Project  
Manager)

*Project manager responsible for oversight, design, and plan preparation for the 346-foot long, 30-foot wide curved steel bridge crossing the South Branch of the Potomac River. The bridge substructure consists of integral abutments and T-Type piers supported on caisson foundations. The project also involved 740' of new two-lane roadway design.*

Mon/Fayette Expressway, S.R. 0043, Section 52G, Washington County, PA\* (Staff Engineer)  
Staff Engineer responsible for final design for dual, nine-span continuous, steel multi-girder bridges with overall lengths of 2,300 feet and 2,500 feet respectively, having maximum spans of 300 feet. Pier-substructure units are single-shaft, cast-in-place concrete with a maximum height of 230 feet. The structures span Mingo Creek, Froman Creek, S.R. 0088, and the Wheeling & Lake Erie Railroad.

Allegheny County Bridge Inspection Program, Allegheny County, PA\* (Staff Engineer)  
Staff Engineer responsible for conducting National Bridge Inspection Standards (NBIS) inspections and load ratings for approximately 20 bridges comprised of a variety of structural forms and materials, including steel, concrete, and wooden elements.

Cranberry Interchange, Butler County, PA\* (Staff Engineer)  
Staff Engineer responsible for the preliminary and final design of five bridges positioned within the interchange. Bridge design included load and resistance factor design (LRFD) analysis of four structures, as well as finite element analysis of a sharply skewed and horizontally curved steel superstructure. [P014]

- Freeport Road (S.R. 4054 over I-79) – Final design included a finite element analysis of the horizontally curved steel superstructure.
- Connector over I-79 – Preliminary design included LRFD analysis of prestressed concrete and steel superstructure alternatives.
- Connector over the Pennsylvania Turnpike - Preliminary design included LRFD analysis of prestressed concrete and steel superstructure alternatives.
- Connector over S.R. 0019 - Preliminary design included LRFD analysis of prestressed concrete and steel superstructure alternatives.
- S.R. 0228 over I-79 - Preliminary design included LRFD analysis of prestressed concrete and steel superstructure

alternatives.

Regional Transit Authority\* (Inspection Team Leader)  
Inspection Team Leader responsible for the in-depth inspection of three railroad bridges and three culverts. Two of the bridges were twin, rolled-beam structures; and the other bridge was a twin, built-up girder structure. Two of the culverts consisted of 96" corrugated metal pipes and the other culvert was a 371' twin box culvert.

S.R. 0056 over Stony Creek, Cambria County, PA\* (Staff Engineer)  
Staff Engineer responsible for redesign of the superstructure replacement for a 406', four-span steel girder bridge. Responsibilities included design of a horizontally curved steel superstructure using finite element analysis. Tasks included the design of primary and secondary steel members and redesign of the deck. The design consisted of four simple spans to prevent increasing the forces in the existing substructure.

S.R. 0309 over Church Road, Montgomery County, PA\* (Staff Engineer)  
Staff Engineer responsible for final design for the structure rehabilitation. The rehabilitation of the sharply skewed welded steel structure involved the replacement of the deck, primary and secondary superstructure elements, and the bearings.

Star City Bridges (WV Route 7) Over the Monongahela River, Monongalia County, WV\*  
Assistant Investigator responsible for preparing a confidential report outlining the conditions that led to a visibly out-of-plane distortion in the steel girder system at the completion of erection. [P128]  
S.R. 0022 over Stony Run, Westmoreland County, PA, Pennsylvania Department of Transportation, District 12-0. [2002] [Job No. 39698] Staff Engineer responsible for the preliminary alternative design, Type Size, and Location preparation, and cost estimate preparation for the replacement of S.R. 0022 over Stony Run.

Bridge Design Group H, Allegheny County, PA\* (Staff Engineer)

Gregory Linder PE  
Project Manager

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Staff Engineer responsible for the replacement of Girty's Run Bridge No. 16 (G116), Thompson Run Bridge No. 2 (TN02), Thompson Run Bridge No. 3 (TN03), and Thompson Run Bridge No. 4 (TN04). Responsibilities included structural inspection, evaluation, and preparation of the inspection report for each bridge. Type, Size, and Location Reports were also prepared for each bridge.

PA Route 28, Galleria Mall Interchange, Allegheny County, PA\* (Staff Engineer)

Staff Engineer responsible for preliminary and final design of a 274' chorded prestressed I-beam bridge as part of the new interchange on S.R. 28 (also known as the Allegheny Valley Expressway). The superstructure consists of 96" deep I-beams. The interchange serves a privately developed regional mall along a rural portion of the highway approximately 1.1 miles northeast of the Harwick Interchange. The project was fast-tracked for the developer with coordination with PENNDOT.

S.R. 0022 over Stony Run, Westmoreland County, PA\* (Staff Engineer)

Staff Engineer responsible for the preliminary alternative design, Type Size, and Location preparation, and cost estimate preparation for the replacement of S.R. 0022 over Stony Run.

Sharon Heights Connector, Span Arrangement Study, Mingo County, WV\* (Project Manager)

Project Manager responsible for preparing the Span Arrangement Report for the proposed structure crossing Horsepen Creek and the proposed widening of an existing structure carrying U.S. Route 52 over Browning Fork. The Sharon Heights Connector is a two-mile, two-lane highway that will connect U.S. Route 52 (near Sharon Heights) to the King Coal Highway. Alternatives studied include the following:

- Spread prestressed concrete box beams
- Prestressed concrete I-beams
- Steel rolled beams
- Three-cell box culvert

Bridge Design Group B, Allegheny County, PA\* (Project Engineer)

Project Engineer responsible for the replacement of Scotia Hollow Bridge No. 1 (XC01) and Licks Run Bridge No. 9 (LC09) and the rehabilitation or replacement of Catfish Run Bridge No. 3 (CT03). The project included structural inspection for each bridge and preparation of the inspection reports. After evaluation, it was determined XC01 and LC09 would need replaced. CT03 would need rehabilitated. Plans and construction sequences for emergency repairs were developed for XC01 and LC09. Subsequent to the structural inspection and emergency repairs, preliminary design was performed for the replacement of XC01 and LC09, and the rehabilitation of CT03. Responsibilities included the preparation of Erosion and Sediment Control Plans, and Hydrologic and Hydraulic Reports for each structure, and preliminary design.

NJ Route 18 Extension, Section 2F, New Brunswick, NJ\* (Project Engineer)

Project Engineer responsible for Quality Assurance/Quality Control for the final design calculations for two pedestrian bridges. The first bridge is the Carpender Road Pedestrian Bridge over NJ Route 18. The bridge is a 156' prefabricated truss structure. Responsibilities included reviewing the substructure and foundation design calculations. The second bridge is the Richmond Street Pedestrian Bridge over NJ Route 18. The bridge is a 200' prefabricated truss structure with 145' elevated approach ramps. The approach ramps consist of prestressed concrete plank beam structures. Responsibilities included reviewing the substructure and foundation design calculations for the main span and reviewing the superstructure and substructure design calculations for the approach spans.

NJ Route 18 Extension, Section 2F, New Brunswick, NJ\* (Project Engineer)

Project Engineer responsible for Quality Assurance/Quality Control for the final design calculations for two pedestrian bridges. The first bridge is the Carpender Road Pedestrian Bridge over NJ Route 18. The bridge is a 156' prefabricated truss structure. Responsibilities included reviewing the substructure and foundation design calculations. The second bridge is the Richmond Street Pedestrian Bridge over NJ Route 18. The bridge is a 200' prefabricated truss structure with 145' elevated approach ramps. The approach ramps consist of prestressed concrete plank beam structures.



Gregory Linder PE  
Project Manager

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*Responsibilities included reviewing the substructure and foundation design calculations for the main span and reviewing the superstructure and substructure design calculations for the approach spans.*

**North Shore Connector, Aerial Structure, Allegheny County, PA\* (Project Engineer)**

*Project Engineer responsible for final design of a 16-span light-rail elevated structure. The structure will connect Pittsburgh's light rail system to the North Shore area of the city, including Heinz Field and PNC Park. The superstructure design consists of finite element analysis of curved steel box girders.*

**S.R. 836 Extension From NW 107th Avenue to NW 137th Avenue, Miami-Dade County, FL\* (Project Engineer)**

*Project Engineer for the S.R. 836 Extension design/build project, which consists of a new four-lane facility extending westward from the Homestead Extension of the Florida Turnpike (HEFT) to NW 137th Avenue and improvements to the existing S.R. 836 main line and ramps to the east of the S.R. 836/NW 107th Avenue interchange. The project includes the construction of new and reconstructed roadways, ten new bridges, retaining walls, and noise abatement walls. Responsibilities included preliminary design for Bridge No. 2 and Bridge No. 3. Bridge No. 2 is a 724.5' curved steel box girder structure. Bridge No. 3 is a 645' curved steel box girder structure. Tasks included design of the primary and secondary superstructure elements and providing steel quantities to the contractor for the bid package.*

**Rail Rehabilitation Project, Akron and Canton, OH\***

*Inspection Team Leader responsible for the in-depth inspection of three railroad bridges and three culverts. Two of the bridges were twin, rolled-beam structures; and the other bridge was a twin, built-up girder structure. Two of the culverts consisted of 96" corrugated metal pipes and the other culvert was a 371' twin box culvert.*

**Headsville Bridge Replacement, Mineral County, WV\* (Project Manager)**

*Project Manager responsible for preparing the Bridge Replacement Study for six alternatives replacing the existing steel thru-truss. The project consisted of developing six new alignments with various span arrangements. In addition,*

*hydraulic analyses were performed for all alignments and span arrangements.*

**Roadways**

**U.S. Route 35, Mason County, WV (Project Manager)**

*Project Manager responsible for oversight, design, and plan preparation for the 1.85 mile section of four-lane divided highway. The section of highway also includes dual 414.5' bridges over Three Mile Creek and dual 106.75' bridges over Two Mile Creek. In addition, the project includes 0.62 miles of side road relocation, a reinforced concrete box culvert carrying an access road over Twomile Creek, waterline relocation plans, and natural stream design.*

**Appalachian Corridor H, Davis to Bismark, Tucker and Grant Counties, WV (Project Manager)**

*Project Manager responsible for oversight, design, and plan preparation for the 1.61 mile section of four-lane divided highway near Davis, WV.*

**Weatherford Industrial Access Road, Upshur County, WV (Project Manager)**

*Project Manager responsible for oversight, design, and plan preparation for the 0.56 mile industrial access road in Buckhannon, WV.*

**Greenland Gap Wind Project, Grant County, WV (Project Manager)**

*Project Manager responsible for oversight, design, and plan preparation for the civil engineering design for a 142 turbine wind power project. The project includes 22 miles of access road design, drainage system design, and an erosion and sediment control plan. In addition, the project included the relocation of Grassy Ridge Road (Grant County Route 42/1).*

**King Coal Highway, Mingo County, WV\* (Staff Engineer)**

*Staff Engineer responsible for designing the roadway and drainage system for a 3.2-mile section of the 96-mile, four-lane divided highway.*

**U.S. Route 33 (Nelsonville Bypass), Hocking and Athens County, OH\* (Staff Engineer)**

*Staff Engineer responsible for performing origin-and-destination surveys for S.R. 78 and U.S. Route 33 (eastbound)*

and westbound). [P022]

### **Floodplain Management**

#### **Spencer Hydraulic Study, Roane County, WV (Project Manager)**

*Project Manager responsible for oversight, design, and plan preparation for a floodplain improvement project in Spencer, WV. The project involves performing a hydraulic study to verify the benefit of constructing a bankfull bench for flood storage and developing construction plans and specifications for the bench.*

#### **Coalwood Floodplain Improvement, McDowell County, WV (Project Manager)**

*Project Manager responsible for oversight, design, and plan preparation for a floodplain improvement project in Coalwood, WV. The project involves floodplain excavation between the bankfull elevation and the toe of slope to improve storage capacity in the floodplain, thereby reducing property damage resulting from flood events.*

#### **Rachel Floodplain Improvement, Marion County, WV (Project Manager)**

*Project Manager responsible for oversight, design, and plan preparation for a floodplain improvement project in Rachel, WV. The project involves floodplain excavation between the bankfull elevation and the toe of slope to improve storage capacity in the floodplain, thereby reducing property damage resulting from flood events.*

#### **Krout Creek H&H Investigation, Wayne County, WV (Project Manager)**

*Project Manager responsible for oversight for the hydrologic and hydraulic investigation to identify sources of flooding problems in the community of Spring Valley, WV. The study was performed in cooperation with the Army CORPS of Engineers to augment Phase II of their study. In addition, construction documents were developed for the floodplain excavation project.*

#### **Parsons First Baptist Church H&H Study, Tucker County, WV (Project Manager)**

*Project Manager responsible for oversight on the Hydrologic and Hydraulic Investigation of Shavers Fork to determine*

*impacts to the base flood elevation as a result of the proposed expansion project.*

#### **Martin Oil Company H&H Study, Lewis County, WV (Project Manager)**

*Project Manager responsible for oversight on the Hydrologic and Hydraulic Investigation of a tributary of Hackers Creek to determine impacts to the base flood elevation as a result of the proposed site development. The project involved the construction of approximately five feet of embankment within the 100-year floodway.*

#### **Freemans Creek H&H Study, Lewis County, WV (Project Manager)**

*Project Manager responsible for oversight on the Hydrologic and Hydraulic Investigation of Freemans Creek which is a tributary of the West Fork River to determine impacts to the base flood elevation as a result of the construction of a proposed Livestock Arena at Jackson's Mill. The project involved the construction of approximately four feet of embankment within the 100-year floodway to elevate the structure one foot above the base flood elevation.*

### **Site Development**

#### **Texas Roadhouse, Wood County, WV (Project Manager)**

*Project Manager responsible for oversight, design, and plan preparation for the site development of a proposed Texas Roadhouse and other commercial development in Parkersburg, WV. Services include parking layout, drainage design, traffic studies, and curb layout.*

#### **CGP Development, Barbour County, WV (Project Manager)**

*Project Manager responsible for oversight of the project team that designed and produced the site, stormwater management and erosion & sediment control plans for this 5-acre commercial development site in Philippi, WV. Proposed businesses are Shop-n-Save and General Dollar. The project also involved a hydrologic and hydraulic evaluation of Anglins Run to determine impact on the base flood elevation due to the proposed construction.*

**Talcott Elementary School Site Design, Talcott, WV**  
*Responsible for oversight of the project team for the design and development of the site (including above- and below ground utilities, pedestrian walkways, access roads, fill slopes, lighting and signage, and landscaping design) and all site-related construction documents (specifications,*

*drawings, NPDES permit) for the new Talcott Elementary School.*

**Buckhannon-Upshur High School Site Improvement and Drainage Project, Buckhannon, WV**

*Responsible for oversight of the project team that designed improvements to the existing football facility, including the installation of a multi-purpose synthetic turf at the football field and a stormwater detention / storage system underneath the football field. The project team responsibilities included the design and development of the contract specifications and drawings, the preparation of the NPDES permit, and the coordination of efforts between all parties involved due to the "fast-track" requirements of this project (design to construction to completion in three (3) months).*

**Stream Restoration and Streambank Protection**

**Laurel Lake Sediment Removal Project, Mingo County, WV (Project Manager)**

*Project Manager responsible for oversight, design, and plan preparation for the sediment removal project. The project involves the removal of seven (7) feet of sediment in the upper portion of the lake to restore recreational benefit. The project also includes the design of a 0.25 mile access road along the lake and 0.5 miles of natural stream restoration to Laurel Creek upstream of the lake.*

**Parchment Valley Streambank Protection, Jackson County, WV (Project Manager)**

*Project Manager responsible for oversight, design, and plan preparation for a streambank protection project near Ripley, WV. The project involved geotechnical investigation and riprap revetment design.*

**Berger Slope Failure, Brooke County, WV**

*Project Manager responsible for oversight, design, and plan preparation for a streambank stabilization on Harmon Creek near Weirton. The project involved geotechnical investigation and a gabion wall design. The project was an emergency project since the streambank failure endangered the stability of a local residence along Harmon Creek.*

**Fisher Landslide Stabilization, Jackson County, WV (Project Manager)**

*Project Manager responsible for oversight, design, and plan preparation for a soldier pile retaining wall to stabilize a streambank failure on Mill Creek. The project was an emergency project since the streambank failure endangered the stability of a furniture store.*

**Cairo Streambank Protection, Ritchie County, WV (Project Manager)**

*Project Manager responsible for oversight, design, and plan preparation for a streambank protection project in Cairo, WV. The project involved structure stabilization to a commercial business and a riprap revetment design.*

**Barkers Creek Streambank Protection, Wyoming County, WV (Project Manager)**

*Project Manager responsible for oversight, design, and plan preparation for a streambank protection project in Bud, WV. The project involved structure stabilization to a local residence and a riprap revetment design.*

**Environmental**

**Glady Fork Mining Inc., Permit D-35-82, Upshur County, WV (Project Manager)**

*Project Manager responsible for oversight, design, and plan preparation for the design of an acid mine drainage treatment facility. The project involves the civil, structural, process, mechanical, and electrical engineering design of a remotely operated 2,000 gallon per minute treatment facility. The facility includes intake boreholes, flow control, mechanical aeration basins, variable speed flocculators, chemical injection buildings, settling basins, sludge thickeners, and sludge removal equipment. The project also includes design of two access roads with a bridge over the Right Fork of Stonecoal Creek.*

**Enterprise/I-79 Connector, U.S. Route 19 to I-79, Environmental Assessment, Marion County, WV\***

*Staff Engineer responsible for the coordination of environmental and engineering services associated with the preparation of the NEPA document. Environmental services included data collection, field reconnaissance, and assessment of the environmental features encountered within the project area. The environmental features were delineated*

using 200:1 scale mapping. Engineering services included the development and evaluation of three alternative alignments that were approximately three miles long using environmental features mapping and current WVDOH design criteria. The typical section included two 12-foot lanes and two 8-foot shoulders. Plans, profiles, and preliminary construction cost estimates were prepared for each alternative alignment. The environmental assessment will contain discussion of the impacts associated with each alternative and will identify the preferred alternative. A Finding of No Significant Impact is expected.

**Southern Beltway, Allegheny and Washington Counties, PA\***

Staff Engineer responsible for performing Short-Eared Owl observations as part of the mitigation for the transportation project.

**Enterprise/I-79 Connector, U.S. Route 19 to I-79, Biological Assessment, Marion County, WV\***

Staff Engineer responsible for the field reconnaissance, literature review, and preparation of a biological assessment of the Indiana Bat. The biological assessment evaluated the potential impacts of the proposed two-lane highway on available summer habitat in the project study area. The United States Fish and Wildlife Service is expected to issue a Biological Opinion.

**Meldahls Undercut Site, Wood County, WV\***

Staff Engineer responsible for providing environmental services for track rehabilitation. The existing embankment was to be removed and backfilled with engineered fill. The existing soil was sampled and tested for contaminants before disposal. Responsibilities included reviewing laboratory analyses of soil samples taken within the railroad right-of-way, documenting the findings, and providing recommendations in report format.

**C&O Flats, Staunton, VA\***

Staff Engineer responsible for providing environmental services for propane tank and railroad cross tie removal. Performed a site visit to verify that two propane tanks and a large stack of cross ties were located on CSXT property. Prepared a brief letter report discussing findings and provided recommendations for removal. Coordinated the removal with contractors and provided inspection to verify that the removal was in compliance with CSXT safety requirements.

**Nelsonville Bat Survey, Athens County, OH\***

Staff Engineer performing the field reconnaissance for

possible Indiana bat hibernaculums within the alignment of the proposed four-lane expansion of U.S. Route 33.

**North Fork Watershed Management Plan, Pendleton and Grant Counties, WV\***

Staff Engineer responsible for various tasks associated with the watershed management plan such as the review of water resources, forest management, wetland documentation, sedimentation and erosion control, and flood prevention.

**Environmental Assessment, Deegan Lake Dam Rehabilitation and Hinkle Lake Dam Breach, Bridgeport, WV\***

Staff Engineer providing environmental services for the completion of the environmental clearance for the rehabilitation of Deegan Lake Dam and the breaching of Hinkle Lake Dam.

Mr. Looby has been applying his talents to projects for twenty years: 15 with Stantec Consulting, 13 as a registered landscape architect, and 10 years as a project manager. During this time he has played many roles on a variety of projects however he is most effective when he manages multi-disciplined design teams. His experience in combining the creativity of landscape architecture with the technical knowledge of civil, traffic and transportation engineering makes him ideally suited to lead a team of professionals in a variety of planning efforts. This combination has been very effective in designing community parks, urban spaces, streetscapes, residential and commercial sites as well as large-site master planning, campus planning and community identity studies.

## EDUCATION

B.S., Landscape Architecture, The Ohio State University,  
Columbus, OH, 1990

## REGISTRATIONS

Landscape Architect #260, State of West Virginia

Landscape Architect #1516, State of Michigan

Landscape Architect #728, Kentucky State Board of  
Licensure for Professional Engineers and Land Surveyors

Landscape Architect #LA20800094, State of Indiana

Landscape Architect #856, State of Ohio

## PROFESSIONAL ASSOCIATIONS

Nursey and Landscape Association, State of Ohio

Member, American Society of Landscape Architects

## PROJECT EXPERIENCE

### Commercial / Retail Development

Graham Ford Parking Lot

Catch-of-the-Day Farms

Skyline Plaza Renovation

Wyandotte Rest Stop SR 30

Fox Trail, Clayton, OH

Iron Mountain, Obetz, OH

Bluegrass Industrial Park

Skyline Plaza, WVA

Austin Landing, Dayton, OH

Emerson Commons, WVA

Otterbein Campus, Lebanon, OH

### Education

Waverly Schools Campus, Waverly, Ohio (Project  
Manager)

*Served as Project Manager for the master plan of a 100-acre campus. Plan included the placement of a high school, middle school, two elementary schools, stadium, practice fields, parking, vehicle circulation and pedestrian circulation. The Design process included coordination with the school's architect and steering committee. Also managed the preparation of detailed landscape plans for the main entry, playground areas, ball fields, entry plaza spaces site landscaping and directional signs. Attended on-site meetings during construction.*

Joseph E Looby ASLA  
Project Manager

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### **Land Planning**

**Downtown Planning Study, Bowling Green, OH**  
*Planning study of the City's downtown that included recommendations for parking improvements, gateways, wayfinding signage, and urban green space areas.*

### **Landscape Architecture**

**Britton Parkway Extension, Hilliard, OH**  
*This project included the extension of Britton Parkway, Riggins Road (previously the Cosgray-Britton Connector) and necessary utilities, including water and sanitary sewer. Due to development in the area, this project needed to be completed on a very aggressive time schedule. Construction ground breaking occurred 11 months after the initiation of design. The project was originally scoped to include traditional signalized intersections. Upon analysis of the amount of traffic that the roadway was expected to carry, it was determined that the size of the intersections would be incompatible with the town center concept being proposed for the development, Britton Central. The final analysis determined that the roundabouts would improve operational and safety performance through the intersections, lower capital costs and life cycle costs, improve the ability to provide access to developments, and aesthetics. Two lane roundabouts are open to traffic at the intersections of Riggins Road/Court and Hayden Run Road with Britton Parkway. A third roundabout is planned for the intersection of Britton Parkway and the relocation of Hayden Run.*

**Genoa Township Park Master Plan, OH**  
*As chairman of the Parks Committee, Mr. Looby led monthly discussions with resident volunteers to create the township first park master plan. In addition to setting goals and objectives, the plan included analysis of all the township's parks and a Paved Pathway Master Plan to guide the township in the construction of a pedestrian network that connected neighborhoods with popular destination.*

**West Virginia Wesleyan College, Buckhannon, WV**  
*Designed and managed the preparation of construction document for outdoor spaces, pedestrian connections and landscaping surrounding this extension to Christopher Hall. The process required collaboration with Stantec's engineers and the college's architect.*

### **Holzer Clinic, Athens, OH**

*Managed the design of the outdoor spaces for this new medical facility. The areas included an outdoor plaza, roof-top garden, and site landscaping at the main entry and grounds. Collaboration with the clinic's architect and Stantec's civil engineer was necessary to insure the designs were compatible with the site's other improvements.*

### **9th Street Revitalization, Huntington, WV**

*Studio teamed with Stantec's traffic and civil engineers to create a series of studies to improve 9th street between 3rd and 5th Avenues. The city was interested in restoring two-way traffic and improving the pedestrian experience. He directed field research, design development, and round-table discussions with City leaders to prepare several conceptual designs. The preferred concept was further developed into construction documents that resulted in a revitalization of this urban corridor.*

### **Waverly Schools Master Plan, Waverly, OH**

*Design team's Project Manager that created a master plan of this 100-acre site. The plan illustrated the location of a high school, middle school, two elementary schools stadium, and practice fields. The design process included close collaboration with the school's architect and steering committee.*

### **Otterbein Retirement Community Master Plan, Lebanon, OH**

*Managed a team of engineers, landscape architects and campus planners to create a future land use plan for Otterbein's 1200-acre community. The plan was based on site research, engineering feasibility, input from Board members and New Urbanism design principles.*

\* denotes projects completed with other firms

#### Raccoon Valley

Conceptual design work and construction documentation for the expansion of an existing 40 acre park to 68 acres. In collaboration with a Gregg Gaber and Association. The design intent was to integrate the proposed recreational facilities into the existing park. Special care was taken in the design and layout of the park features as much of the project area lies within the floodway/floodplain of Raccoon Creek. The proposed park amenities include: additional softball fields, football and soccer fields, basketball courts, playgrounds, new and renovated parking areas, pedestrian pathways, picnic pavilions, restrooms, a storage building, a concession facility, and landscape installations. Stantec worked with the client to phase the park construction over an eight year period with one phase occurring each year in order to meet the allowed budget. Additional improvements beyond the initial eight year period were also recommended and recorded in a long range plan. The phasing, cost estimates and the long range plan were organized and presented to the Recreation Commission for their future use and reference.

#### Fuller and Olson Park Renovations, Ann Arbor, MI

Managed the design team in the preparation of recommendations and cost estimates to renovate eight soccer fields at Fuller and two at Olson Parks. Recommendations were presented to City officials to finalize field restoration programs. Construction documents were prepared based on recommendations that included regrading, soil restoration, sod specification, irrigation modifications, underdrains design, storm lines, fence and gates, and sports lighting. Stantec also provided bidding, contractor selection and construction administration services during the renovation process.

#### Historic District Enhancements, Obetz, OH

Preparation of a master plan to enhance the Village's oldest subdivision that was plotted in 1838. The plan was the result of community input and included stone and brick sign walls, historic medal fencing, and landscaping to create a "gateway" at five key entry points.

#### Pittsfield Preserve, Pittsfield Township, MI

Prepared a Master Plan of the Township owned property that included a proposed administrative campus: a 30k sf maintenance facility, 60k sf public safety building and a 40k sf recreation center. However, the vast majority of the 700 acre property will be left natural with the only planned improvements serving the purpose of providing access to the sites natural features. These included walking paths, nature trails, parking, boardwalks, and signage.

#### 5th Street Master Plan, Village of Beverly, OH

Preparation of a study of 5th street, the main artery through this small Ohio river town, to improve pedestrian safety, access management, and overall aesthetics. The study resulted in a master plan and cost estimate that became the basis for grant applications. Proposed improvements included removal of overhead power lines, installation of street lights, brick retaining walls, metal railings, street trees, raised planters, benches and paver accents.

#### Recreation Master Planning

##### Cypress Wesleyan Church Park, Columbus, Ohio (Project Manager)

Consistent with the Church's mission of "Mind, Body, and Spirit" the church was looking to expand its organized sports fields along with its worship center and parking areas. Critical to this expansion was satisfying the criteria of the Darby Accord: guidelines for development within the Darby Creek Watershed. The Vision Plan prepared by the Landscape Architecture Studio was used in conjunction with a major fundraising effort by the Church's leadership to excite its members about their growth plans. The plan illustrated the addition of 2 baseball fields, 2 soccer fields, ¾ mile exercise path with workout stations, restroom and concession building, storage building, and for a create re-use of a large stockpile of topsoil that included an amphitheater, and elevated viewing areas for baseball games.

Joseph E Looby ASIA  
Project Manager

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**Waterford Park, (Formally the Lucent Site), Columbus, OH (Project Manager)**

*Located in the center of a proposed TND style development, Joe managed the creation of a master plan for this site illustrating a pool, clubhouse area, kids play area, sidewalks connections and preservation of many large existing oak trees through the use of retaining walls and steps to minimize their disturbance.*

**Regional and Neighborhood Parks**

**Veterans Park, Ann Arbor, MI**

*Prepared a series of conceptual park master plans and cost estimates to assist the City in determining the feasibility of renovating this existing park. The park consists for five baseball/softball fields, a shelter with restrooms and two parking areas. The City wished to increase the depth of the fields and provide a large, centrally located, plaza area to stage tournaments and events.*

**Bridlewood Park, Obetz, Ohio (Project Manager)**

*Park redesign to include a baseball field and additional parking. Design of the new facilities was integrated with existing park elements such as the shelter, playground equipment and trees.*

**McNamara Park, Genoa Township, Delaware County, Ohio (Project Manager)**

*Created design concepts based on input gathered from a community task force. Working with the Township Trustees, created several concepts showing a large picnic shelter, internal bike path and bike path connections to an existing trail system, parking, placement of site elements such as play ground equipment, basketball courts, and landscaping. During the construction document preparation, managed a team of designers whose scope included the generation of elevation sketches for the picnic shelter. These were later passed on to an architect for final construction document preparation, which held true to the concept. In addition, provided support to the Township through the bid process and construction.*

**Grace Brethren Church Park, Centerville, Ohio (Project Manager)**

*The park area for the church was developed in conjunction with a surrounding PUD, also designed by Stantec, to satisfy zoning and stormwater management requirements. The developer agreed to design and construct a portion of the park and in exchange the Church would allow it to be used by the future neighborhood residents. The result was a space that served many purposes. The parks main feature is a pond that not only provides storm water detention, but also is designed to add aesthetics to the church property and proposed neighborhood. The shape of the pond is made interesting through an interplay of water, mounds, fountains and the preservation of existing trees around its perimeter. A peninsula was incorporated into the design to create a focal point for a future gazebo and public gathering areas. The remainder of the park space was designed with the Church's future growth plans in mind and included areas for building and parking expansions, ball fields, walking paths and space for spiritual reflection.*

**Sherbrook Park, Genoa Township, Delaware County, Ohio (Project Manager)**

*The idea for this park was conceived by a local developer as a means to provide open space for his proposed development and satisfy a need by a local church for organized sports fields. The result was a design that could be developed in conjunction with a larger site. Park elements included in the design were baseball fields (Pony League), football, soccer, track with field sports, parking, walking path, buffer from adjacent neighbors and tree preservation.*

**Vinmar Park (Project Manager)**

*The idea for this park was conceived by a local developer as a means to provide open space for his proposed development and satisfy a need by a local church for organized sports fields. The result was a design that could be developed in conjunction with a larger site. Park elements included in the design were baseball fields (Pony League), football, soccer, track with field sports, parking, walking path, buffer from adjacent neighbors and tree preservation.*

\* denotes projects completed with other firms



Joseph E Looby ASLA  
Project Manager

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Carson Farms Park, Delaware, Ohio (Project Manager)  
*This project began as part of a PUD re-zoning, which Joe managed. This included approximately 200 acres of mixed single-family housing, open space areas, parks, and pedestrian connections throughout. The City was granted an 8-acre site as part of a Parkland Dedication Zoning Requirement and retained our landscape architecture studio, managed by Mr. Looby, to manage the detailed design and construction of the park.*

### **Residential Development**

Bay Harbor, Marble Head, OH

Genoa Farms, Genoa Township, OH

Southern Point, South Bloomfield, OH

Sycamore Creek, Pickerington, OH

Liberty Crossing, Cincinnati, OH

Village at Stone Cliff

Trails Edge, Hilliard, OH

Tates Creek, KY

Hilliard Run, Columbus, OH

Reynolds Crossing, Reynoldsburg, OH

Marion Highlands, Marion, OH

Woodbine, Jerome Township, OH

Twin Oaks, Concord Twp, OH

Sarento, Genoa Township, OH

Woods at Labrador, Jerome Township, OH

Seldom Seen Acres, Powell, OH

Walnut Grove, Genoa Township, OH

Vinmar North, Genoa Township, OH

Vinmar Farms, Genoa Twp, OH

### **Sports, Recreation & Leisure**

Columbus Crew Training Facility, Village of Obetz, Ohio (Project Manager)

*Site Manager for the Columbus Crew Training Facility. Responsible for design and implementation of the design of this 80+acre park. Prepared the final construction documents for this facility, as a member of the Design Team.*

*Designed and supervised the installation of the Columbus Crew's practice field, a state-of-the-art field with an elaborate drainage system, tied to the irrigation system, and "Sports Turf" sod, which is an extremely high quality turf for professional sports teams. In addition, executed the bid process for the field lighting.*

### **Streetscapes**

Jeffersontown Bluegrass Industrial Park, Jeffersontown, OH

*This 1800-acre industrial park is home to over 850 companies with approximately 40,000 employees. The City desired to re-invest its resources into this important area and commissioned a study to examine current conditions,, evaluate the needs of the owners, and provide recommendations to improve and grow the park. A diverse team was assembled that included a local planner, real estate specialist and Stantec that provided landscape architecture and civil engineering expertise. Some of Stantec's recommendations included: aesthetic upgrades to the park's major intersections, wayfinding plan with signage, create a hierarchy of landmarks for navigation and identity, and concepts for logo and re-branding.*

\* denotes projects completed with other firms

## Joseph E Looby ASLA

Project Manager

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### West Main Street Enhancement, Xenia, OH

*Prepared a master plan and construction documents for a mile-long corridor leading into the City from the west. The final design reflected public input that was derived during a design charrette conducted by Stantec. It was also necessary to coordinate with the DOT since a portion of the project was funded through a Transportation Enhancement grant.*

### Recommendations for a Pedestrian Friendly Campus, West Virginia University, WV

*Through a process that included field observations, interviews with local governments and direction from the WV Walks Oversight Committee, a study was created that contained analysis of the existing campus condition, pedestrian friendly design guidelines, and proposed master plan of pedestrian routes. The final study included 22 recommendations and 75 potential solutions as well as conceptual renderings depicting future streetscape improvements, a pedestrian bridge over WV 705 and a future "Urban Center" mixed-use development.*

### Galena Street, Toledo, Ohio (Project Manager)

*Prepared streetscape design and presentation boards for community meetings for this revitalization program of slum and blighted area for community enhancement.*

### Groveport Road Streetscape Improvements, Obetz, Ohio (Project Manager)

*Entailed design of streetscape elements to provide a sense of arrival into the downtown of Obetz. Design elements include the use of trees to soften existing building facades and reinforce the linear nature of the street as it funnels views to the entry gateway. Benches, trash receptacles, and decorative brick pavers are incorporated into these areas and allow the Village to concentrate its costs into specific zones where people will congregate.*

### Southwest Traffic Calming Plan, Dublin, Ohio (Project Manager, LA Team)

*Entailed site analysis and research of the large-scale project areas, production of initial drawings and conceptual ideas for review by staff and residents, production of construction drawings, and working closely with the firm's traffic engineers for successful solutions.*

### 9th Street Renovations, Huntington, West Virginia (Project Manager, Streetscape Team)

*Teamed with our Transportation Engineers to provide Conceptual Plan Studies for the renovation of 9th Street, between 3rd Avenue and 5th Avenue, located in downtown Huntington, West Virginia. Directed field research, data gathering, and design development meetings with the City of Huntington, and the Metropolitan Partners (the developers of Pullman Square, a shopping and entertainment development on 3rd Avenue). Directed the development of four conceptual plan studies incorporating two-way vehicular traffic, pedestrian circulation improvements to strengthen the sense of connection between 3rd Avenue, Pullman Square, and 5th Avenue, and access to businesses located along 9th Street.*

### 3rd Avenue Improvements, Huntington, West Virginia (Project Manager, Streetscape Team)

*Teamed with our Transportation Engineers to provide a master plan for the renovation of 3rd Avenue, located in downtown Huntington, West Virginia. Directed field research, data gathering, and design development meetings with the City of Huntington, the Metropolitan Partners (the developers of Pullman Square, a shopping and entertainment development on 3rd Avenue), and the community including property owners and business owners. Orchestrated a master plan including preliminary cost estimates for the renovation of 3rd Avenue from 7th Street to 13th Street. The master plan provided gateways to the downtown area at 7th Street and 13th Street to provide a sense of arrival, the establishment of two-way traffic, traffic flow modifications for individuals traveling to Ohio, and incorporation of existing improvements in the 800 and 900 blocks, and design and site elements from Pullman Square to create a unified feel to 3rd Avenue. Worked closely with our West Virginia office during the development of construction documents and specifications, and participated in construction observation for Phase 1, the renovation of the 1200 block on 3rd Avenue. The design provides a gateway to the downtown including a decorative metal arch extending the width of 3rd Avenue, decorative pavement, benches, bollards, flagpoles, and a decorative wall in the median.*

\* denotes projects completed with other firms

Joseph E Looby ASLA  
Project Manager

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### **Traffic Calming**

SW Dublin Traffic Calming, Dublin, OH

*Stantec's Traffic professionals prepared a Traffic Calming Plan for the City's southwest area neighborhood. The area consisted of several smaller communities which had been adversely affected by the traffic growth from surrounding development activity.*

*The City of Dublin had completed several thoroughfares to provide for the safe and efficient movement of the non-local traffic through the southwest neighborhood. However, the existing local street network, generally characterized by straight and level alignments, was being used increasingly by non-resident traffic as a direct route in reaching their destinations. This increased traffic created both a physical and perceptual separation of the communities within the southwest neighborhood.*

*A key step was to identify conceptual traffic calming measures. The intent was to create a local street network that established and enhanced the neighborhood image, diverted the non-local traffic onto the higher-level thoroughfares and provided for the safety and security of its residents.*

### **Urban Parks**

Maumee River Park, Napoleon, Ohio (Project Manager)

*Directed the development of conceptual plans and accompanying cost estimates in collaboration with engineering team for improvements to an existing boat ramp facility along the Maumee River. The concepts allowed for improved access to the river for park visitors by means of stabilizing the riverbank and creating a pedestrian walk along the river, leading to observation decks and courtesy docks.*



Mr. Parsons has more than 13 years experience and has participated as a project manager on a wide variety of survey projects, including GPS, aerial mapping and control, ALTA, boundary, construction stakeout, design, topographic and wetlands surveys. His responsibilities include project proposals, research and review, client and crew coordination, data reduction and calculations, boundary resolutions, and legal descriptions. As a license surveyor in the Commonwealth of Virginia, Mr. Parsons is proficient with current technologies and traditional methods of field and office surveying. Mr. Parsons has responsible charge for all Virginia based survey operations and reviews and approves all required signature documents. Additionally as a licensed engineer he brings a unique perspective to Stantec's survey department and projects.

## EDUCATION

B.Sc., Civil Engineering, Virginia Military Institute,  
Lexington, Virginia, 1994

Designated Plans Examiner #176, Engineers and  
Surveyors Institute, Fairfax County, Virginia, 1998

Designated Plans Examiner, Engineers and Surveyors  
Institute, Loudoun County #063, Virginia, 2002

## REGISTRATIONS

Professional Engineer #015279, State of West Virginia

Professional Engineer #PE070521E, Commonwealth of  
Pennsylvania

Registered Land Surveyor #2895, Commonwealth of  
Virginia

Professional Engineer #033680, Commonwealth of  
Virginia

## PROFESSIONAL ASSOCIATIONS

Member, West Virginia Society of Professional  
Surveyors

Member, National Society of Professional Engineers

Member, American Society of Civil Engineers

Member, Engineers and Surveyors Institute

## PROJECT EXPERIENCE

### Attractions, Arts & Entertainment

Carmike Cinemas Site Plan, Morgantown, West  
Virginia (Project Engineer)

*Responsible for construction drawings for site improvements including a 4-screen addition of 15,000 square foot building and internal renovation with associated parking and travel way improvements. Services include base survey mapping, landscape and irrigation plans, construction plans and profiles (site plan), erosion and sedimentation control plans, permitting and construction administration.*

### Boundary Surveys

Theismann Properties, Loudoun County, Virginia  
(Senior Surveyor)  
*Rural boundary survey.*

Round Hill Rural Estates, Upper Lakes, Loudoun County,  
Virginia (Senior Surveyor)  
*Rural boundary survey.*

Johnson Property, Rockingham County, Virginia (Senior  
Surveyor)  
*Rural boundary survey.*

Kelly Properties, Monongalia County, West Virginia  
(Senior Surveyor)  
*Rural boundary survey.*

\* denotes projects completed with other firms

Herbert L. Parsons III PE, LS  
Surveyor/Civil Engineer

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Theismann Properties, Loudoun County, Virginia  
(Senior Surveyor)  
*Rural boundary survey.*

### **Cultural, Religious & Public Assembly**

Saint John The Apostle Catholic Church, Leesburg, Virginia (Project Manager and Consulting Engineer)  
*The development of the planning documents and guidance through the Special Exception and public hearing process for a 27,250 square foot, 950-seat church and some 170 associated parking spaces and vehicular travel-ways. Responsible for the preliminary storm water management and water quality control plans.*

### **Floodplain Management**

Lawson Drainage Study, Morgantown, West Virginia

Partridge Subdivision (Floodplain Study), Loudoun County, Virginia (Project Engineer)  
*Responsible for modeling the existing FEMA floodplain utilizing hydrology and hydraulic programs such as Hec-Ras and TR-20 to generate a detailed study to establish existing floodplain limits based on built out conditions.*

### **Multi-Unit / Family Residential**

Round Hill Rural Estates, Upper Lakes

Nesteled Oak, Morgantown, West Virginia

Additions to Red Cedar, Loudoun County, Virginia (Survey Manager / Engineering Task Manager)  
*Responsible for Subdivision Plat and Dedication Plat for a 39-lot residential subdivision. Project scope included preparation of collector roadway frontage improvements (Rt. 621), construction plans and VDOT roadway design. Survey responsibilities included preparing the record plat, associated off-site plats including boundary line adjustment plat, right-of-way dedication plat and easement plats.*

Raspberry Falls Golf & Hunt Club, Loudoun County, Virginia (Project Manager)  
*Golf course community of 800+ acres and 200+ buildable lots, design responsibilities include layout and design of five*

*subdivision sections comprised of over three miles of VDOT streets, various record documents including utility easement plats, ROW dedication plats and subdivision record plats. Coordination and analysis of various field surveys for design support.*

Greenwood Commons, Loudoun County, Virginia  
(Project Manager)

*Development of 27-acre high-density residential subdivision with 40 buildable lots. Emphasis on stormwater management and water quality controls utilizing a dry detention pond. Responsibilities include design work for infrastructure including proposed parking, storm water management, water quality controls, open channel hydraulics, erosion and sediment controls, utilities and connections. Extensive interaction with applicable local state and federal reviewing agencies.*

### **Roadways**

Raspberry Falls Rte 1170 Street Design, Leesburg, Virginia

Red Cedar Rte 621 Improvements, Leesburg, Virginia

RHRE Rte 719 Frontage Improvements, Round Hill, Virginia

### **Site Development**

Holly Meadows, Leesburg, Virginia (Project Engineer/Surveyor)

Henderson Property, Loudoun County, Virginia (Project Engineer/Surveyor)

Evergreen Meadows, Loudoun County, Virginia

Heiskell Car Wash

Falling Water Subdivision, Cheat Lake, West Virginia (Project Engineer and Surveyor)

*Responsible for providing engineering support and computations relating to storm water management, water quality control, adequate outfall, open and closed channel*

\* denotes projects completed with other firms

Herbert L. Parsons III PE, LS  
Surveyor/Civil Engineer

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*storm water design for this three phase 195 acre development located on Cheat Lake. Additionally as the Project Surveyor responsibilities included ground support for aerial mapping, boundary verification subdivision / easement plats.*

### **Sports, Recreation & Leisure**

Ida Lee Tennis Center, Leesburg, Virginia

Arthurdale Trail, Arthurdale, West Virginia

Elco Park Recreation Improvements, Elco, Pennsylvania  
(Project Engineer)

*Responsible for preparation of construction documents for Neighborhood Park improvements administered under HUD Development Block Grant Funding. Renovations included upgrading playground facilities and safety features, reconstruction of basketball court, green space and parking areas. Responsible for providing survey base mapping, final construction documents, specifications and bid documents. Task also to included construction administration during construction.*

Raspberry Falls Golf & Hunt Club Pool House, Loudoun County, Virginia (Project Manager)

*Construction drawings for site improvements. Amenities included a 1,000 square foot pool house, 3,150 square foot community swimming pool, two tennis courts sidewalk/trails and 143 associated paved parking spaces and associated travel ways. Preparation of construction plans included geometric layout of the site, grading, utility plans and profiles, landscape plans, erosion and sediment controls and storm water analysis.*

Raspberry Falls Golf and Hunt Club Conference and Training Center, Loudoun County, Virginia (Project Manager and Engineer)

*Site plan addition to existing clubhouse facilities, design work for infrastructure including proposed parking, storm water management, water quality controls, open channel hydraulics, erosion and sediment controls, utilities and connections. Extensive interaction with applicable local state and federal reviewing agencies and preparation and coordination of associated record documents and easement plats.*

### **Urban Land Engineering**

Holly Meadows, Leesburg, Virginia (Survey Manager / Engineering Task Manager)

*Responsible for all aspects of field survey including boundary, locations, topographic mapping, data reduction, boundary resolution and base mapping. Additional support for road design and water resource engineering was provided.*

Mr. Littler has over 13 years of experience with responsibilities including such positions as Roadway Designer and Survey Project Manager. He has performed roadway design, site civil design, drainage computations, construction layout, earthwork volumes, topographical surveys, aerial control surveys, boundary surveys, WVDOH right of way plan development, courthouse research, deed work maps, survey plats, survey descriptions, earthwork volume computations, hydrology computations, WVDOH waste permits, plan preparation, subdivision plats, fine grade computations, and field crew management. He has been in professional charge of over 1000 boundary surveys ranging in size from small lot and partition surveys to large multi-tract 1000 acre surveys.

## EDUCATION

B. S., Engineering Technology / Surveying, West Virginia Institute of Technology, Montgomery, West Virginia

A. S., Civil Engineering Technology, West Virginia Institute of Technology, Montgomery, West Virginia

## REGISTRATIONS

Professional Surveyor, West Virginia (#2139)

West Virginia Department of Transportation  
Compaction Technician Certified, Transportation  
Engineering Technician (TET) Level III # 1902

## PROJECT EXPERIENCE

### **WVDEP Office of Abandoned Mine Lands and Reclamation Southern Mapping Services — Throughout the southern counties of West Virginia, WVDEP AML & R.**

Mr. Littler served as Project Manager in charge of surveying and mapping on this Project with the West Virginia Department of Environmental Protection. This contract consisted of Surveying and mapping services

to be used for the design and construction of projects located throughout the southern counties of West Virginia. Mr Littler has currently completed five of the twenty projects that were assigned to him and his team with a various aggressive time schedule.

### **Robinson Run Preparation Plant—Harrison County, West Virginia, Pharnum and Pfile Construction Company.**

Mr. Littler served as Project Manager in charge of surveying on this 2200 TPH coal preparation plant. This plant was built in order to replace the existing plant which had served its time. This project was unique in that the new prep plant was positioned directly behind the existing plant and the existing conveyor feed line to the plant was to only be extended from the old plant into the new plant. The tolerances on alignment tie in was minimal and final tie-in between the old conveyor feed line and the new conveyor feed line was accomplished in a couple of days with no misalignment problems.

### **Robinson Run Overland Conveyor Project—Harrison County, West Virginia**

\* denotes projects completed with other firms

## Jason Littler, PS

Professional Land Surveyor

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Mr. Littler served as Project Manager in charge of surveying on this 4.1 mile, overland conveyor beltline. This project consisted of the survey layout, volume computations, and as-built mapping of the 4.1 mile overland conveyor along with over 4 miles of access roads and over 500,000 cubic yards of excavation. Mr. Littler was responsible for the crew scheduling, reviewing of all data, final cross section data, checking of all computations.

### **Nedpower Mount Storm Wind Project—Grant County, WV, M.A. Mortenson Company.**

Worked with the design team on design, and plan preparation for the civil engineering design for an 82 turbine wind farm project. The project includes 14.2 miles of access road design, drainage system design, and an erosion and sediment control plan. A phase 1A and Phase II have also been included on this project which consisted of an additional 56 wind turbines and over 8 miles of additional access road design.

### **WVDOH—Red Jacket Postal Facility ALTA Survey, Mingo County, West Virginia**

Performed an ALTA/ASCM land title survey for this project. Mr. Littler served as Survey Project Manager coordinating all survey crews and managing the daily field collection of data in accordance to ALTA survey procedures along with utility coordination, record research and computations.

### **Appalachian Corridor H—Hardy County, West Virginia**

Mr. Littler served as Project Manager on this 1.5 mile section of Corridor H in which R.D. Zande was responsible for the surveying and

construction observation. Mr. Littler was responsible for the crew scheduling, reviewing of all data, final cross section data, and checking of all computations. This project was opened to traffic in 2005. Mr. Littler also served as project manager in charge of Right of Way development. Was involved with right-of-way placement, rights of entries, right-of-way questionnaires and courthouse research. He was also involved with all right-of-way submissions to the WV Department of Highways, RW1, RW2, RW3, and RW4's.

### **WVDOH—Jacksonburg Bridge, Wetzel County, West Virginia**

Mr. Littler was project manager and supervised the survey crews performing elevation and topographic surveying of this proposed bridge replacement project. He was responsible for all day to day activities associated with the management of this project and the final submittal to the State of WV.

### **US Route 23 - South Bloomfield, OH**

This project consisted of the widening of 1,400 feet of US Route 23 to provide turn lanes at the intersection of Bloomfield Hills Drive and US Route 23. Mr. Littler worked with the design team to produce design plans.

### **U.S. Route 35 - Mason County, WV**

Mr. Littler has been involved with all phases of this project to design a 1.6-mile portion of U.S. Route 35, a four-lane, divided highway. Mr. Littler's responsibilities have included all surveying and mapping related tasks, along with Right of Way Plan development. Also, he has been involved in several meetings with the WVDOH concerning this project.

\* denotes projects completed with other firms



# Jason Littler, PS

Professional Land Surveyor

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## **Appalachian Corridor H - Tucker and Grant Counties, WV**

Mr. Littler has been involved with all phases of this project to design a 1.2-mile portion of Appalachian Corridor H, a major four-lane, divided highway. Mr. Littler's responsibilities have included producing cross sections, plan and profile sheets, Right of Way plans, and all surveying and mapping related tasks. Also, he has been involved in several meetings with the WVDOH concerning this project.

## **State Route 142 Widening, London, OH**

Mr. Littler performed all civil design, which consisted of producing cross sections (original ground and final grade) and all plan and profile sheets for this project to widen a two-lane road into a three-lane road. Mr. Littler also completed a set of construction plans for submittal to the State of Ohio.

## **Buffalo Bridge, Buffalo, WV**

The Buffalo Bridge was redesigned and will be constructed beside the site of the old bridge. Mr. Littler was involved in the redesign of the roadway approach to the new bridge. Also, as Survey Manager on this WVDOH project, Mr. Littler supervised the survey crew on elevations and topographic surveying of the site. He produced an original ground map to be used in the design of the bridge.

## **Granny Creek Bridge, Sutton, WV**

This project consisted of the replacement of the existing bridge over Granny Creek on State Route 4. Mr. Littler was responsible for all construction coordination, computations and construction layout on this project.

## **Kittsonville Bridge, Weston, WV**

Mr. Littler performed the construction layout of the new bridge and entrances to the bridge for McCoy Construction.

## **Price Hill Road, Marlinton, WV**

As Project Manager, Mr. Littler performed the construction layout and computations for Alan Stone Construction Company.

## **Bridgeport Bypass, Bridgeport, WV**

Mr. Littler performed the construction layout of this four-lane road for Ground Breakers Construction.

Philippi Bridge and Bypass, Philippi, WV

Mr. Littler performed the construction layout for both the bridge and the bypass for Orders Construction and Central Contracting.

## **Sun Mountain Resort, Mount Hope, WV**

This project consisted of the development of approximately 1,000 acres of land located on the west side of US Route 19, north of the exit to Mount Hope in Fayette County, WV. Preliminary plans for the Sun Mountain Resort included an amphitheater, hotel, Gary Player golf course, and a conference facility. Mr. Littler was responsible for all storm drainage and some of the civil design associated with the construction of the complex.

## **Pine Bluff Tipple Complex, Pine Bluff, WV**

This project is a Bond Forfeiture site located in Pine Bluff, WV. Mr. Littler produced all original ground sections and monthly pay volumes for submittal to the State of West Virginia. He also constructed an as-built map of the completed site.

Dolphin Communications, Bridgeport, WV

Mr. Littler performed a complete boundary survey of this tract and produced original ground mapping for the proposed road

\* denotes projects completed with other firms

## **Jason Littler, PS**

Professional Land Surveyor

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location to the new KISS FM radio station. Mr. Littler acquired all necessary permits and contracted all state agencies necessary for the construction of this road. He also performed runoff calculations and sized all culverts along the road.

### **Northeast Quad Development, Bridgeport, WV**

Mr. Littler was involved in performing all site design for the development of this proposed commercial site, such as producing a detailed set of plans showing all site grading and drainage structures and performing all runoff calculations and sediment pond sizing. He also submitted a National Pollution Discharge Elimination System (NPDES) permit for approval.

### **Taylor Creek Impoundment, Widen, WV**

Mr. Littler was involved in this Abandoned Mine Land (AML) project. The project consisted of two (2) sites of which all original ground sections were produced and monthly pay volumes were submitted for approval.

### **Buckhannon Upshur Airport Authority, Buckhannon, WV**

Mr. Littler performed the construction layout to repair slips on both sides of the runway. Fairskies Development, Buckhannon, WV  
Mr. Littler performed a complete site design to produce the most available land use for this development. He also calculated pre and post runoff curve numbers with discharges, designed all structures accordingly, and provided mapping and placement of a relocated gas line. He also completed and submitted an NPDES permit.

**TIMBER PILE-SUPPORTED PEDESTRIAN BOARDWALK  
STONEWALL JACKSON RESORT STATE PARK**

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**Stantec**

# **SECTION V**

**Practice Area Profiles**

## Areas of Expertise

### Transportation/Structural Engineering

Our Transportation/Structural Engineering Department is divided into five independent, yet interlocked divisions; Roadway Engineering, Structural Engineering, Traffic Planning/ Engineering, Airport Engineering, and Land Acquisition. Our professionals are familiar with the requirements and restrictions of not only state agencies, but also of numerous municipalities. Services provided include:

#### *Structural*

- Bridge Inspection and Design
- Dams and Retaining Walls
- Culverts and Tunnels
- Parking Garages
- Aircraft Hangars
- Pre-engineered Buildings
- Drainage Structures
- Building Condition Surveys
- Erection Plans
- Demolition Plans
- Shop Drawing Review
- Storage Tanks

#### *Roadway*

- Highway and Street Improvements
- Intersection, Interchanges, and Ramp Studies
- Pavement Analysis and Design
- Bikeway Studies and Design

#### *Traffic Planning/Engineering*

- Transportation Plans
- Corridor Studies and Circulation Plans
- Environmental Impact Statements
- Traffic Impact Assessments

#### *Land Acquisition*

- Title Research
- Appraisal Waiver
- Appraisal Preparation
- Acquisition
- Closing and Instrument Recording
- Relocation



## **SURVEY DEPARTMENT**

Our well-staffed Survey Department is positioned to respond quickly to provide surveying services on short notice. Our professionals are aware that the design of a site, structure, or facility can be no better than the accuracy of the initial data collected. Therefore, it is of major importance to us that we deliver accurate, thorough, and comprehensive information. This department is comprised of registered professionals and technical personnel skilled in all aspects of surveying. Our professionals are supported by state-of-the-art equipment. Additionally, we have the full capability of integrating GPS with our GIS division.



Stantec has recently made a substantial investment in Robotic survey equipment. This state-of-the-art equipment increases field productivity by allowing us to move from a 3-man crew to a 2-man, and sometimes 1-man crew. Robotic survey equipment is ideal for both survey and stakeout work.

Our services include:

- ALTA/ACSM
- Boundary and Topographic
- Zoning and Annexations
- Record Plats
- Plot Plans
- Mortgage Surveys
- Foundation Surveys
- FEMA Elevation Certificates
- House Staking
- Construction Staking
- GPS/GIS

## TIMBER PILE-SUPPORTED PEDESTRIAN BOARDWALK STONEWALL JACKSON RESORT STATE PARK



### CONSTRUCTION SERVICES DEPARTMENT

The final element of a successfully completed project is the construction phase. Our Construction Services Department can work as the client's agent to ensure this complex phase contributes to the successful completion of the project and the satisfaction of the client.

Our professionals can observe the construction for compliance with contract requirements and review contract pay requests with the contractor's field superintendents, recommending all compliant work for acceptance and payment. During construction, we conduct regular progress meetings to address issues and identify problems, working with all parties to quickly clear up questions and keep the work on schedule.



Stantec's Construction Services Department has provided services to projects as small as \$20,000 and as large as \$60 million. We maintain a full-time staff of construction services personnel. This staff can be, and often is, supplemented with additional personnel on an as-needed basis. The department also has personnel certified as plans examiners, building inspectors, and electrical safety inspectors, augmented with contractual inspectors.

In addition, Stantec provides Clerk of the Works (COTW) services for numerous clients. Our most recent COTW project was for the St. Joseph Hospital in Buckhannon, West Virginia. This project included an addition to the existing hospital as well as renovations to the existing hospital valued at \$6,500,000.00. What is significant about this project is that due to Stantec's diligence, the cost overruns and change orders were kept to less than 3.25% of the overall budget.

Our construction services provide reasonable assurance the project is constructed in conformance with the intent of the applicable plans and specifications. These services generally include:

- Maintenance of project schedule
- Coordination of inspections
- Confined space entry
- Mitigation of construction disputes
- Pay request review and approval
- Measurements
- Prepare force account statements
- Daily records of work progress
- Verification of installed materials
- Maintain field drawings

# Thompson School Creek Greenway Boardwalk

Jacksonville, North Carolina



**Stantec**

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Stantec assisted the City of Jacksonville with construction issues that arose during the construction sequence of an almost one mile long boardwalk.

Stantec provided engineering design and construction oversight services for this mile long boardwalk through a maritime forest. The boardwalk, which runs above an abandoned sewer line, connects an elementary school to an environmental education center on the coast of Jacksonville. The boardwalk and education center are part of a comprehensive environmental public education program.

Stantec's scope of services provided included the design of timber spans up to 14 foot long, glulam beam design, foundation design, connection design, and decking design. Stantec also assisted the City with revised foundation specifications that were required due to poor soil conditions.

*Client: City of Jacksonville*  
*Completed: 2007*  
*Size: 1 Miles*

One Team. Infinite Solutions.

# 168th Street Serpentine River Bridges

Surrey, British Columbia



Stantec

The separate pedestrian/cyclist bridge provided the community with a safe and relaxed crossing adjacent to the highway bridge structure.

In a Design / Build venture with JJM Construction Ltd., Stantec Consulting provided engineering expertise from conceptual design through to construction supervision of both the highway bridge and its pedestrian counterpart.

The recommendation to provide a separate pedestrian bridge was readily accepted by the City of Surrey. The simple wood structure supported on timber piled bents closely resembles the highway bridge that was replaced and provides a direct link to the existing dyke trail system. The pedestrian bridge length is 43.9 m, with nine equal spans of 4.88 m, and a wooden deck 3.2 m wide.



Completed: 1999  
Size: 43.9 m

One Team. Infinite Solutions.



# Colony Road Bridge Replacement

Springfield, Manitoba



Stantec was retained to provide design and contract administration services for the replacement of a timber bridge in the Rural Municipality of Springfield, Manitoba.

Stantec engineered the timber bridge replacement with pressure treated Parallam PSL (engineered wood product) box and T-sections on a steel substructure.

A preliminary design report was prepared, outlining various options and estimated costs. Both a precast-prestressed concrete superstructure and a fully treated Parallam PSL superstructure were designed and tendered. The Parallam PLS structure consists of box and T-sections laterally post-tensioned with a waterproofing membrane, and an asphalt wearing surface. Each individual strand of wood was fully treated during the manufacturing of the Parallam product ensuring that the treatment is applied through the full depth of each member, and not just the exterior surface.

The 19-m-long (62 ft) by 7.5-m-wide (25 ft) single-span bridge is the first of its kind in Manitoba.



*Client: RM of Springfield  
Completed: 2006  
Cost: \$330,000*

One Team. Infinite Solutions.

# Greyrock Pedestrian Bridge Over the Cache la Poudre River

Fort Collins, Colorado



This 127-foot superstructure on modified existing concrete piers serves the United States Forest Service's Greyrock Trail in the Roosevelt National Forest.

Stantec provided the planning, design, and construction to improve the Greyrock Trail Bridge, located northwest of Fort Collins. The existing structure was sagging and hydraulically inadequate, even during high flows of spring run-off.

A new timber superstructure was designed with major improvements to raise the abutments and all center piers 36-inches higher. We performed the regrading for the trail approaches, and relocated US Forest Service signage for trail users. The project was complete on time and within budget and incorporated glued-laminated girders and an attractive timber handrail. The US Forest Services was very involved in the process from preliminary design through construction.



# Lower Neponset River Trail

Milton, Massachusetts

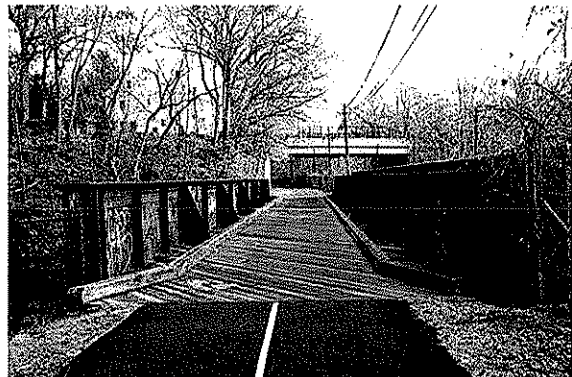


Stantec provided engineering and landscape architectural support services for design development drawings, contract plans, specifications, and estimates for the 2.4-mile Neponset River Trail.

Stantec provided comprehensive landscape architectural, design and construction administration services for this multi-use river trail is the first link in a regional trail system that will eventually extend from downtown Boston to the DCR Blue Hills Reservation. The trail parallels the Neponset River along an historic rail corridor.

Stantec provided landscape architectural design services (plan production, specifications, and estimates) for the path alignment, grading, entrances, pocket parks, sitting areas, interpretive elements, and corridor plantings.

The firm also provided engineering design services (plans, specifications, and a cost estimate) for the deck replacement of a 95' thru-girder railroad bridge. The work involved replacing the old railroad ties with a timber decking, and adding side rails to safely accommodate pedestrians and bicyclists.



*Client: Planners Collaborative Inc.  
Completed: 2003  
Cost: US\$2,500,000  
Size: 2.4 Miles*

One Team. Infinite Solutions.

# Newburyport Boardwalk Renovation and Extension

Newburyport, Massachusetts



Stantec provided services for the renovation and extension of a 1,200 L.F. timber boardwalk located along the Merrimack River in the historic City of Newburyport.

The rehabilitation project included repairs to the structural systems, decking, embayment area bulkhead, and utilities, as well as improvements to pedestrian access and landscaping. The project also included extension of the eastern and western ends of the boardwalk, from Riverside Park to the municipal fishing pier.

The scope of this project required the expertise of Stantec's multi-disciplinary staff of structural engineers, landscape architects, and environmental permit specialists, as well as subconsultants specializing in marine structures and electrical engineering.

In conjunction with this project, two pedestrian routes that link the downtown and the Merrimack River were designed and constructed.



*Client: Office of Planning & Development  
Completed: 2003  
Cost: \$1,800,000*

One Team. Infinite Solutions.

STATE OF WEST VIRGINIA  
Purchasing Division**PURCHASING AFFIDAVIT****VENDOR OWING A DEBT TO THE STATE:**

**West Virginia Code** §5A-3-10a provides that: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

**PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:**

If this is a solicitation for a public improvement construction contract, the vendor, by its signature below, affirms that it has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the **West Virginia Code**. The vendor **must** make said affirmation with its bid submission. Further, public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the **West Virginia Code** and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the **West Virginia Code** may take place before their work on the public improvement is begun.

**ANTITRUST:**

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

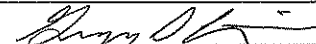
**LICENSING:**

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

**CONFIDENTIALITY:**

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.

Under penalty of law for false swearing (**West Virginia Code** §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

Vendor's Name: SMARTEL CONSULTING SERVICES INC.Authorized Signature:  Date: 5/11/2009