EXHIBIT B

REQUEST FOR QUALIFICATIONS
JOPLIN PUBLIC LIBRARY - CIVIL
(2015-RFQ-02)
TRI-STATE ENGINEERING



WICHITA GREENWAY PROJECT
DESIGN WORKSHOP

November 24, 2014

Tony Robyn, Disaster Recovery Coordinator - City of Joplin
Michelle Kaiser, Senior Project Manager - CBC Real Estate Group, LLC
602 S. Main Street
Joplin, MO 64801

Mr. Robyn, Ms. Kaiser & Selection Committee,

It is our understanding that the City of Joplin wishes to complete site design and construction for the new Joplin Library at 20th Street and Connecticut Avenue. This project is of critical importance to the future redevelopment of the 20th Street corridor. Tri-State Engineering (TSE) responds with interest in performing the needed civil engineering, surveying, landscape architecture and traffic engineering for this project.

This particular library project is unique in several ways. This project will set the tone and expectations of future anchor projects both in the 20th Street corridor and other disaster recovery projects. The success of the library and surrounding area will play a major role in transforming Joplin into the interconnected, vibrant and growing city its citizen's desire. For these reasons, we wish to express our excitement to assist the City in this endeavor.

- Our team of TSE, Design Workshop and CJW offers a unique blend of professionals who have the right balance of expertise and local knowledge to complete your design needs.
- TSE staff understands the local importance of this project and have already completed several disaster recovery projects that contribute to the progress and transforming nature of the city.
- Our team has the graphics and 3D modeling capabilities to keep the design features fresh and accessible to the City's staff for interaction and creative collaboration.

This statement of qualifications conforms to the RFQ outline in chronological order of responses requested on pages 11 and 12. This should make your review and evaluation of our submission easy and quick.

TSE's project team is located at 702 S. Main Street in Joplin. Our landscape architecture sub-consultant, Design Workshop, is located is Aspen, Colorado. Our traffic engineer sub-consultant, CJW Transportation Consultants, is located in Joplin.

We appreciate the opportunity to continue our business relationship with Joplin. It is our desire to continue providing excellent service and responsiveness to your consulting engineering needs.

Sincerely,

Clayton Cristy, PE, CEO
Principle In Charge

Shaun McConnaughey, PE
Project Engineer

Table of Contents

1 **Company Profile**

Firm Information
Subconsultant Information

2 **Organizational Structure**

Project Team
Scope of Work Table

4 **Resumes**

12 **Experience & Qualifications**

Project Understanding & Approach
Relevant Projects

19 **References**

20 **Disclosure Statements**

21 **Pending Claims**

Appendix

Exhibits
Subconsultant Information & Projects

Company Profile

Firm Information

Full Legal Name: Tri-State Engineering, Inc.

Date of Establishment: July 5, 1979

Type of Entity & Expertise: Engineering Corporation providing Civil Engineering & Land Surveying

Current Ownership Structure: Employee Stock Ownership Trust owns 55%, Four Minority Owners own 45%



















State Licensure

Clayton Cristy, PE Principle In Charge	Licensed Professional Engineer Missouri # 028604
Shaun McConnaghey, PE Project Engineer	Licensed Professional Engineer Missouri # 2013019078
Steve Lewis, PLS, CFedS Project Surveyor	Licensed Professional Land Surveyor Missouri # 002514

Work Completion Office

All work completed by the engineering design and surveying staff project team will take place at 702 S. Main Street, Joplin, MO.

Sub-Consultant work for traffic study data will take place at 2361 S. Outer Road, Joplin, MO.

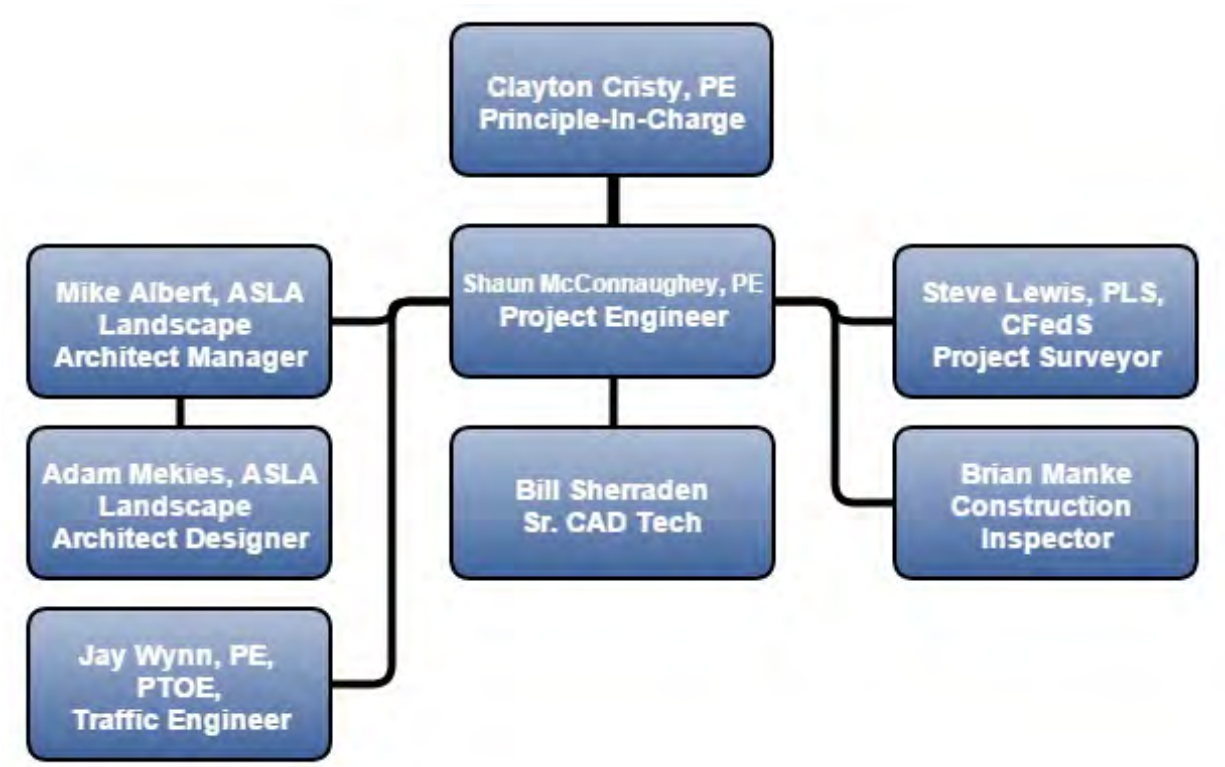
Sub-Consultant work for Landscape Architecture design will take place at 120 E Main St # 100, Aspen, CO.

Project Manager

Clayton Cristy, PE
Clayton works in the TSE Joplin office mentioned above.
CCristy@tristate-engineering.com

Organizational Structure

Project Team Diagram



Principle-In-Charge - Clayton Cristy, PE, CFM

Clayton is the Project Manager overseeing the project. He will act as the primary contact for the City of Joplin and CBC Real Estate Group. Clayton will assign tasks and coordinate work flow.

Project Engineer - Shaun McConnaughey, PE

Shaun will serve as the Project Engineer overseeing all engineering design tasks. He will work closely with Clayton and the design team to coordinate and execute an efficient design and construction plan.

Senior CAD Designer - Bill Sherraden

Bill will work with Shaun to complete design plans. Bill will also serve as TSE's liaison to our sub-consultants.

Project Surveyor - Steve Lewis, PLS, CFedS

Steve will serve as the Project Surveyor collecting necessary boundary and topographic data for the design team. He will also assist in the rezoning process, as needed.

Landscape Architect - Mike Albert, ASLA

Mike is the sub-consultant Landscape Architect overseeing all design aspects of landscaping and streetscaping plans. He will coordinate with the Project Engineer for Master Planning and overall project integration of ampitheater, park connection and trail head.

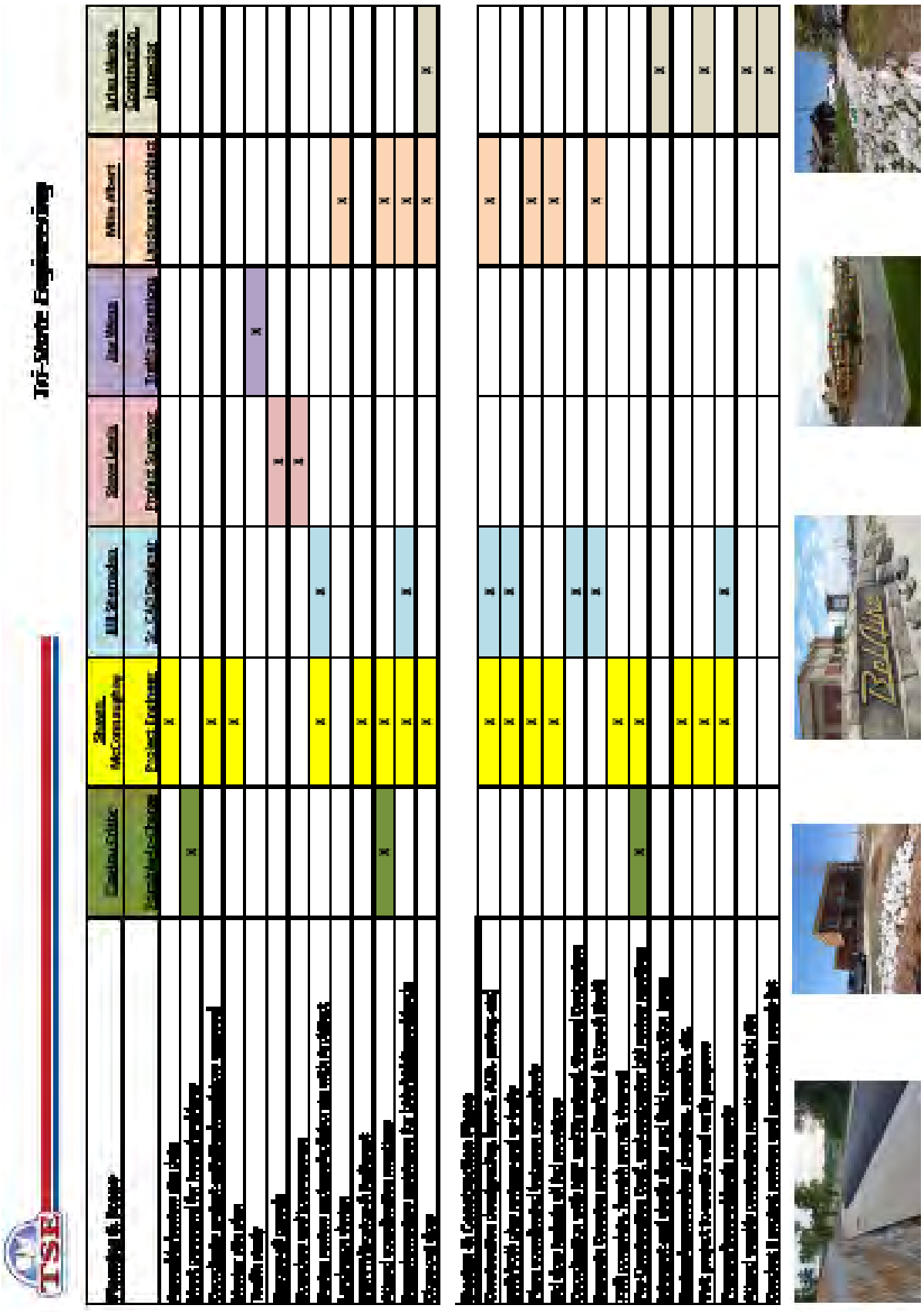
Traffic Engineer - Jay Wynn, PE, PTOE

Jay will serve as the Traffic Engineer and provide traffic study data to the Project Engineer. Jay's data will be incorporated into the overall project integration plan for vehicular and pedestrian traffic.

Construction Inspector - Brian Manke

Brian will serve as the Construction Inspector representing the engineering design plan to the general contractor. He will work closely with the Project Engineer in helping to resolve field issues and execute a "punch list."

This will be an 11x17 fold out and display in landscape format



Resumes



Clayton L. Cristy, P.E., CEO
Principle-In-Charge

EDUCATION

Missouri University of Science & Technology - Rolla, 1992
B.S., Civil Engineering, Cum Laude

REGISTRATION

Professional Engineer - Missouri, Oklahoma, Kansas, Arkansas

AFFILIATIONS

National Society of Professional Engineers

Missouri Society of Professional Engineers

American Council of Engineering Companies

YEARS EXPERIENCE

21 Years | 19 Years with TSE

ENGINEERING DISCIPLINES

Transportation

Storm Water Drainage

Floodplain Management

Site Design

Water Systems

Wastewater Systems

What Sets TSE Apart?
"I think one thing that differentiates some of our engineers is our experience as City and County engineers. This gives us a different perspective than many design consultants."

Professional Experience

Clayton will be serving as Principle-In-Charge. Clayton has 21 years experience leading project teams in completing both large and small scale projects. He is very familiar with the Joplin area having served his entire professional career in Joplin. He is most accomplished in transportation engineering but also has completed many projects in water systems, drainage systems and site development. He is a Certified Floodplain Manager and serves as Jasper County, Missouri's Floodplain Administrator.

Prior Experience with City of Joplin

Clayton has good working relationships with the City of Joplin Public Works and Engineering Staff. He has led TSE in numerous projects for the City of Joplin, primarily in the areas of transportation and storm water drainage.

Relevant Project Experience:

Site Design

- Missouri Alternative and Renewable Energy Technology (MARET) Center at Crowder College - Neosho, MO
- FEMA subcontractor performed site grading, water, sewer and paving plans on multiple sites for temporary housing after the May 22, 2011 Joplin Tornado.
- Public Training Facility & Driving Pad. To be used for police and fire training in Joplin, MO
- Joplin Historic Stockyards Redevelopment - Joplin, MO

Storm Water Drainage

- Assists Jasper County, MO with floodplain determinations for building permits, reviews floodplain development permits, and performs damage assessments to determine substantial damaged structures

Disaster Relief & Recovery Projects

- FEMA Temporary Housing project after 2011 Joplin Tornado
- Infrastructure Inventory & Conditions Assessement in 2011 Joplin Tornado Zone
- Infrastructure repair and replacement planning for sidewalks, curb and gutter, storm drain inlets and paving. This is part of the JET Team assignment on the CDBG-DR funding.

Resumes



Shaun McConnaughey, P.E.
Project Engineer

EDUCATION

Missouri University of Science and Technology, 2008, Bachelor of Science in Civil Engineering

REGISTRATION

Professional Engineer - Missouri, Oklahoma, Kansas, Arkansas

AFFILIATIONS

Missouri Society of Professional Engineers (SW Chapter President, 2013-2014)

American Society of Civil Engineers

American Public Works Association

Missouri Water & Wastewater Conference

American Council of Engineering Companies

YEARS EXPERIENCE

6 years with TSE

ENGINEERING DISCIPLINES

Environmental Construction

Wastewater Systems

Water Systems

Stormwater Drainage

Construction Observation

Background/Role in this Proposal:

Shaun will be serving as the Project Engineer. Shaun has 6 years experience, all in Joplin. Shaun has advanced rapidly in his understanding and ability to manage projects in sanitary sewer design, water system design and stormwater facilities design. He is particularly skilled at Construction Observation representing the integrity of the engineering design during construction.

Prior Experience with City of Joplin:

Shaun has been establishing good relationships with the City of Joplin Public Works and Engineering staff. He is particularly skilled in Construction Phase services providing engineering expertise as a Resident Project Representative.

Relevant Project Experience:

Site Design

- Joplin Historic Stockyards Redevelopment - Joplin, MO
- Adawe Travel Plaza (Ottawa Tribe of Oklahoma) - Miami, OK
- Public Training Facility & Driving Pad. To be used for police and fire training in Joplin, MO
- Airport Industrial Park Drainage Study & Preliminary Street Design - Joplin, MO

Storm Water

Numerous storm water and drainage projects have been completed with Shaun's assistance and input. He is rapidly gaining experience and knowledge in drainage issues and storm water handling.

- Shaun has assisted on numerous site design and storm water projects in the Joplin area.

Disaster Relief & Recovery

- Galena Landfill Expansion to accomodate debris removal after 2011 Joplin Tornado (assisted).
- Construction Inspection for 20th Street Multi-Use Transit & Trail

Resumes



Bill Sherraden
Senior CAD Designer

EDUCATION

Manhattan Area Technical College, Manhattan, KS 1973

OTHER PROFESSIONAL EXPERIENCE: (2007-2010)

Gray Rock Consulting
Civil Engineering/Landscape Architecture
Project Manager/Designer, 2008-2010

Ozark Civil Engineering,Civil Designer, 2007-2008

SOFTWARE PROFICIENCY

AutoCAD Civil 3D

YEARS EXPERIENCE

41 Years | 3 years with TSE

CAD DISCIPLINES

Site Design

Structural

Natural Gas

Background/Role in this Proposal:

Bill joined the TSE Team in 2011 bringing with him a wealth of CAD Design experience and skills. Bill is particularly suited well for site development projects. He has contributed to projects in education, retail, healthcare, hotel & hospitality, finance. He also has experience in structural design and natural gas. Bill also is experienced in project management and serves often in a liaison role for our clients.

Site Development

Bel-Aire Plaza

Bill worked closely with TSE Engineers in providing CAD support for the re-development of the Bel-Aire Plaza after the May 2011 Joplin Tornado. Key features of the project included significant site grading (site lowered approximately 10 feet), storm water mitigation, utility relocations and parking configuration. This project completed construction in 2014.

Joplin Stockyard Redevelopment

The old Joplin stockyard site was purchased for new commercial and residential development. The approximately 45-acre tract required site grading, storm water drainage, roadways, utilities and necessary permitting. This project will complete construction in 2015.

Stone's Corner Sonic Drive-In

Bill provided CAD Design and client liaison services for the site redevelopment plan for Sonic Drive-In. Sonic Drive-In sits on the northeast corner of a major intersection that was redesigned from a signalized intersection to a dual-lane roundabout. Access management issues required the owner to redevelop the site for easier more convenient access.

Joplin Public Training Facility

The City of Joplin required site redevelopment plans to construct a public training facility and driving pad for police and fireman. Bill provided CAD Design to develop utiliy, grading, paving and stormwater detention plans for the site.

Resumes



Steve Lewis, P.L.S., CFedS
Project Surveyor

EDUCATION

Denver Institute of Technology, 1989 Associate of Applied Science, Surveying & Mapping

REGISTRATION

Professional Land Surveyor - Missouri, Kansas, Oklahoma & Arkansas

Certified Federal Surveyor (CFedS)

AFFILIATIONS

Missouri Society of Professional Surveyors

Oklahoma Society of Land Surveyors

Kansas Society of Land Surveyors

Arkansas Society of Professional Surveyors

American Council of Engineering Companies

YEARS EXPERIENCE

25 years with TSE

SURVEYING DISCIPLINES

Boundary | Topographic | ALTA | Engineering Design | Construction Staking

What sets TSE apart?
"Two things.....
• our ethical standards
• the willingness to always give the client the benefit of a doubt"

Background/Role in this Proposal:

Steve will be serving as Project Surveyor. Steve has 24 years experience leading survey teams on a variety of survey tasks. Steve has served his entire career in the Joplin area and is very familiar with Joplin infrastructure and historical development in the area. Steve has managed survey crews on transportation, water, sanitary sewer, environmental cleanup, site development, and drainage facilities projects. He has extensive knowledge and experience in land, engineering and construction surveying.

Prior Experience with City of Joplin:

Steve is very familiar with City of Joplin Public Works Engineering and Surveying staff. He has managed the on-call surveying contract with the City for many years.

Relevant Project Experience:

Boundary & Topographic Surveys

For both public and private clients, Steve oversees the boundary and topographic surveying. These projects range from residential boundary surveys to major topographic surveys for EPA clean-up sites.

Engineering Design Surveys

Our in-house engineers as well as other engineering firms have come to rely on Steve for accurate and timely engineering design surveys. These surveys help engineers by locating built features, establishing vertical & horizontal controls, and locating utilities. Examples include;

- Numerous residential, commercial and industrial survey data gathering for site design projects within Joplin
- Zora & Main Street Interchange, Joplin, MO – Sub-Consultant to Transystems
- 20th Street Railroad Overpass, Joplin, MO – Sub-Consultant to Transystems
- Numerous on-call survey tasks for the City of Joplin

Disaster Relief & Recovery

- FEMA Temporary Housing project after 2011 Joplin Tornado - Construction Staking
- Galena Landfill Expansion to accomodate debris removal after 2011 Joplin Tornado - Boundary & Topo Surveys.

Resumes



Mike Albert, PLA, AICP, LEED AP
Landscape Architect Manager

EDUCATION

Master in Landscape Architecture, with Distinction, Harvard Graduate School of Design

Bachelor of Landscape Architecture, International Business Minor, Summa Cum Laude, Oklahoma State University

CERTIFICATIONS

- Licensed Landscape Architect, State of Colorado
- Certified Planner, American Institute of Certified Planners
- CSI Construction Documents Technologist
- LEED Accredited Professional

AFFILIATIONS

- American Society of Landscape Architects
- Harvard Alumni Association
- Aspen Art Museum Contemporaries
- Aspen Institute, Vanguard

Background/Role in this Proposal:

Mike Albert is a principal in the Aspen office of Design Workshop. With an award-winning and geographically diverse portfolio, Mike possesses notable planning and design experience spanning across a variety of scales, including multi-family affordable housing, urban parks and streetscapes, resort and tourism planning, master-planned communities, and urban redevelopment strategies. Mike will perform landscape architecture designs contributing to the overall project needs. He will take care to coordinate with the Project Engineer and design staff to create a seamless and visually appealing Master plan and streetscape.

Relevant Project Experience:

Landscape Architecture

While at Design Workshop, Mike has participated in various planning initiatives, public engagement processes and entitlement approvals throughout the Intermountain West. His interests include engaging the public in the planning process to understand their vision and finding opportunities to reach them which create lasting impressions to benefit the good of the public and environment.

Mike earned a Master in Landscape Architecture with Distinction from the Harvard Graduate School of Design. During this time has been part of the winning collaborations for the prestigious National ULI/Gerald D. Hines Urban Design Competition, the Designing Action International Competition and the Boston Affordable Housing Competition.

Selected Project Experience

- Beaver Creek Resort Revitalization: Beaver Creek, Colorado
- Big Darby Accord Plan: Columbus, Ohio
- Roaring River Ranch Planning Approvals: Pitkin County, Colorado
- Pine Lake Planning & Design Approvals: Aspen, Colorado
- The Fairmont Residence at Shock Hill: Breckenridge, Colorado
- The Shores at the Highlands: Breckenridge, Colorado
- Redevelopment Study of Snowmass Center: Snowmass, Colorado
- Revitalization of Snowmass Mall: Snowmass Village, Colorado
- The Bend Urban District + Park: Nashville, Tennessee
- Bayou Commons: Urban District on Buffalo Bayou: Houston, Texas
- Glendenning Master Planned Community: Newfoundland, Canada
- Jerusalem Urban District Plan: Jerusalem, Israel
- Schweitzer Resort Village Development Study: Sandpoint, Idaho
- Bakhmaro Recreational Feasibility Study: Bakhmaro, Georgia

Resumes



Andy Mekies, ASLA
Landscape Architect Designer

EDUCATION

Iowa State University of Science and Technology Bachelor of Landscape Architecture

YEARS EXPERIENCE

7 Years

DISCIPLINES

BIM Modeling
Urban Planning
Master Planning
Flood Mitigation
Urban Corridor Development
Residential Design
Mixed-Use Development

Background/Role in this Proposal:

Adam Mekies brings over 7 years of design, construction, and technology experience to Design Workshop's Aspen office. Adam grew up in Iowa City, Iowa and received his undergraduate degree in landscape architecture from Iowa State University with an emphasis in urban design and digital technology.

Adam will perform landscape architecture designs contributing to the overall project needs. He will take care to coordinate with the Landscape Architect Manager and Project Engineer.

Relevant Project Experience:

Disaster Recovery

Adam maintaines a long history in mid-west disaster planning and recovery work. His experience in tornado recovery and flood planning and mitgation have been demonstrated numerous times through his work in the Iowa City floods of 2008, the Cedar Rapids flood recovery and parks planning in 2014, and the Mapleton Iowa tornado recovery and mixed use development planning among many other Iowa and midwest disaster projects.

Landscape Architecture

Through his work with Design Workshop, Adam has developed and implemented numerous new standards and three dimensional work flows within the Design Modeling Systems of the firm. His work has spanned a wide range of urban planning efforts, master planned resorts, flood mitigation and recovery, urban corridor development, construction grading and drainage simulation, multi. and single family residential design, and urban mixed-use development.

Sample Projects

Rural Tornado Recovery Planning: Mapleton, Iowa

Minneapolis Metro Terrain Model: History of Minneapolis

Transit Oriented Mixed-Use Development: Minneapolis, Minnesota

University of Iowa Music School: Iowa City, Iowa

University of Iowa Hancher Auditorium: Iowa City, Iowa

Leawood 135th Street Master Plan: Wichita, Kansas

Resumes



Jay Wynn, PE, PTOE, LSIT
Traffic Engineer

EDUCATION

University of Kentucky, BS Civil Engineering, 1987
MS Civil Engineering, 1994

REGISTRATIONS

Professional Engineering - Missouri, Arkansas, Kansas

Professional Traffic Operations Engineer #690

Land Surveyor in Training, Missouri

PUBLICATIONS

"Signal System Management", Missouri Valley Section – Institute of Transportation Engineers (MOVITE) Journal, 1992

"Construction of a Traffic Signal System", Urban Traffic Engineer's Council, 1994

"Springfield, Missouri, An Educational and Inter-Jurisdictional Intelligent Transportation System", 1998 Compendium of Technical Papers

YEARS EXPERIENCE

27 Years

DISCIPLINES

Traffic Impact Studies | Analytical Studies for Traffic Control | Corridor and Land Use Studies | Roadway Geometric Design | Traffic Signal & Intersection Design | Signal Timing & Operation | Signal Controls & Optimization

Background/Role in this Proposal:

Jay Wynn brings over 27 years of civil engineering and land transportation planning and design to his role as President and CEO of CJW and was recently awarded the Melvin B. Meyer Transportation Professional of the Year Award for 2013 by the Missouri Valley Institute of Transportation Engineers. Jay has worked closely with public and private entities of all sizes and he has been instrumental in the development of the first Urban/City/State ITS project in the State of Missouri, one of the first of six rural operational test projects in the United States. He has also overseen the development and installation of a state of the art computerized traffic signal system for over 140 intersections.

Jay will perform all necessary traffic study tasks to aid the design team in the proper planning and design of traffic flow and capacity.

Relevant Project Experience:

Joplin Street Evaluation – Joplin, MO

Jefferson Streeetscape Phase 1&2 – Springfield, MO

Business 13 Roadway Design – Branson West, MO

Nicholas Lane Sidewalk Improvements – Nixa, MO

Aldersgate Bridge Stormwater Improvements – Nixa, MO

Missouri Street Roadway and Stormwater Improvements – Nixa, MO

Peters Avenue Stormwater Improvements – Joplin, MO

Battlefield Plaza Sanitary Sewer Realignment – Springfield, MO

Republic Road Widening and Stormwater Improvements – Greene County, MO

Branson Highway 76 Complete Streets – Branson, MO

City of Joplin Experience

City of Joplin Signal Timing

Signal Designs at 32nd & Main, 17th & Rangeline, 7th& Geneva, 3rd &Northpark

Joplin City Wide Traffic Signal Assessment

Joplin Traffic Signal Control Evaluation

Main Street Signal Optimization

Joplin Traffic Engineering Policies Review

Joplin Long Range Transportation Plan

Joplin Origin Destination Study

City of Joplin Downtown Signal Optimization

Joplin Clearance Interval Timing Standardization

City of Joplin Metro Transportation Study South of I-44

Resumes



Brian Manke
Construction Inspector

EDUCATION

Superpave Certifications, Missouri University of Science and Technology

PREVIOUS EMPLOYMENT

Missouri Dept. of Transportation - Construction Inspector (2002-2008), Facility Manager (2008-2010)

YEARS EXPERIENCE

16 Years

DISCIPLINES

Bridge Work

Concrete & Asphalt Paving

Grading & Dirt Work

Background/Role in this Proposal:

Brian recently joined the TSE team to provide Resident Project Representation services for several projects. He brings a wealth of knowledge and experience from his service with the Missouri Department of Transportation.

Brian will provide construction inspection services for this project. He is familiar with working in the construction environment and works well with contractors.

Relevant Project Experience:

Highway 71/Interstate 49

While with MoDOT, Brian served as a construction inspector during the construction of a four-lane divided highway from Joplin, MO to Pineville, MO. He coordinated utility service providers, conducted weekly production and operations contractor meetings, performed regular job site observations, prepared regular interval progress reports and scheduled contractor payments and deductions.

Joplin Sewer Rehabilitation & Construction

As a sub-consultant to HDR, TSE is providing construction observation services for the rehabilitation and construction of sanitary sewer facilities in a portion of the tornado damage area.

Experience & Qualifications

Project Understanding & Approach

The Joplin Public Library RFQ does a very good job of breaking down the general scope of work to be provided for the project. The included descriptions in Exhibit A and B have assisted in determining what work will be performed in association with the library facility. Several of the items listed the Exhibits are not described in detail below to avoid repeating the RFQ. The topics listed below include several items we felt were important to consider to address all of the site's requirements.

Project Understanding

The City of Joplin, in cooperation with CBC Real Estate Group, wishes to develop a public library facility with parking, landscaping, streetscape improvements, pedestrian access, trailhead and pocket-park interface, outdoor amphitheater as well as other potential outdoor amenities using funds provided through the Economic Development Administration with additional funding by the City. The proposed site is located northeast of the intersection of 20th Street and Connecticut Ave. The site is approximately 6 acres in total with 1 acre being owned by a private entity.

In conjunction with the Joplin City Master Plan, as well as this specific site RFQ there is great potential to accommodate the the City's wishes to incorporate sustainable technologies and innovations in regards to water efficiency, native landscape, site usability, and best practices for storm water management. There is also great potential in accommodating the City's wishes to connect the site to the existing trails network by integrating a pocket park and trailhead with the site. This requirement helps reduce individual vehicle dependency and connectivity to the trolley system and promotes public transportation. Noise and light pollution reduction are also listed in the general requirements to include in the site plan.

Water Efficiency

Water efficiency, in regards to Civil Engineering work, can be greatly affected by landscaping. The City wishes to incorporate Missouri native plants. The landscape architect will be required to keep these items in mind during design. Plantings that also provide a natural buffer should be considered along the perimeters adjacent to any residential properties. To reduce potable water needs for the landscaping plan, the site



Wildcat Glades Audubon Center Trail

storm water controls can be incorporated to provide storage for the plantings. This will also help address stormwater management and water quality.

(Also see Design Workshop's Legacy Design approach in the appendix)

Site layout will need to coordinate closely with the landscape architect to allow proper site flow between all of the sites features. Features such as the public library, trailhead, pocket-park, amphitheater, and private mixed-use development should all tie together seamlessly to allow flow through the site. Sidewalks and parking within the entire site should allow flow across the site to improve access to all of the areas features.

Pedestrian Access

Joplin has made great strides in increasing the trail network in the area. Two trails near the site, Parr Hill Park and Murphy Boulevard Park, each have a trail system that should be incorporated into the City's request for a trailhead. Future trail alignments include

Experience & Qualifications

Project Understanding & Approach

expanding 20th Street sidewalks to include multi-use transportation, similar to the trails recently installed from Murphy Boulevard to Highview Avenue that were designed by TSE. This trail could be extended to Connecticut Avenue to allow Trail connectivity back to Murphy Boulevard Trail. Sidewalk could be extended along the north side of 18th Street to connect to Parr Hill. Lot setbacks and utilities along 18th will not easily allow trails. Multi-use trails along 20th west of Murphy Boulevard will require additional property acquisition or utility relocation to avoid power poles along both sides of 20th.

Conclusions

Overall, we are excited to offer our professional design team to collaborate with the City and Project Manager in creating an interconnected and vibrant public library site. We understand the desire for sustainable and smart infrastructure to set the pace for future growth and development in Joplin. We believe our team is differentiated in the following qualifications;

1. All three consultants, Tri-State Engineering, Design Workshop and CJW Transportation Consultants, have experience completing disaster recovery projects.
2. Tri-State Engineering and CJW Transportation Consultants are both local firms, familiar with Joplin culture, politics, history, private utilities and public works staff.
3. Design Workshop is a premier landscape architectural firm with numerous Midwest and Missouri projects. They also maintain a deep knowledge and expertise in streetscapes, innovative stormwater management and creative aesthetic appeal.



Frisco Greenway Trail, - Joplin, MO

Experience & Qualifications

Similar Projects

Bel-Aire Shopping Plaza Redevelopment

Joplin, MO

CHALLENGE

The 2011 Joplin tornado destroyed this iconic shopping plaza at 20th & Rangeline Road. The owner desired a significant redevelopment of the site. The existing commercial site and adjacent residential property required extensive regrading to incorporate new building configurations.

SOLUTION

Redevelopment included site grading, utility upgrades and relocations, parking layout, and stormwater runoff. The development includes 34,750 square feet of commercial/ retail space. New development standards adopted with the city's new comprehensive plan were followed in design.

FEATURES

- Completed Summer 2013
- Site grading plans significantly lowered the entire site for easier access and stormwater drainage.
- Project Manager/Engineer: Jerald Norton, PE
- Project Surveying: Steve Lewis, PLS



Post-Tornado May 2011, Bel-Aire Plaza



May 2014, Bel-Aire Plaza

Reference: Dave Johnson
Construction Adventures
417.624.0201



Google Earth Aerial Image 01.2014



Experience & Qualifications

Similar Projects

Joplin Fire Stations

Joplin, MO

CHALLENGE

Two of Joplin's Fire Stations, numbers 2 and 4, were destroyed in the May 2011 tornado. These stations required relocating and rebuilding. The Architectural firms of CR Architecture, Paragon and Sapp Design were selected to complete these rebuilds. These architects choose Tri-State Engineering for site design work.

SOLUTION

TSE had previously worked with CR Architecture to complete the site design needs for Joplin Fire Station #6. For Fire Stations numbers 2 and 4, TSE worked with architects to create appropriate turn radiuses, stormwater drainage, and utility plans.

FEATURES

- Joplin Fire Station #4 had a particularly challenging site in which turn radiuses had to be innovative and precise for the long fire truck entrance and exit paths.
- Designs for numbers 2 and 4 required a quick design schedule and coordination with the architect and City of Joplin.



Google Earth Aerial Image Firestation #2



Joplin Firestation #4

References: **Sapp Design** **417.877.9600** | **Paragon Architecture** **417.885.0002** | **CR Architecture** **513.721.8080**



Aerial image during construction
Joplin Fire Station #2



Experience & Qualifications

Similar Projects

Joplin Historic Stockyards Redevelopment

Joplin, MO

CHALLENGE

There was a need for comprehensive civil engineering for a 50-acre mixed-use project on the former Joplin Historic Stockyards. New utility and street infrastructure was needed to support the development while maintaining future flexibility.

SOLUTION

TSE is partnering with Historic Stockyard District, LLC to plan and develop the site for multi-family residential, office, commercial, research and development, hotel and neighborhood retail. The first phase includes construction of two, three-story apt. complexes.

FEATURES

- One 48-unit complex (Rustic Ridge Villas, LLC)
- One 36-unit complex (Rustic Ridge Villas, LLC)
- Supporting club house and swimming pool
- Project Manager/Engineer: Clayton Cristy, PE
- Project Surveying: Steve Lewis, PLS



Roadway , Sidewalk & Retaining Wall



Stormwater pipe awaiting placement

Reference: **Steve Owens**
Historic Stockyard District, LLC
417.548.2333



Google Earth Aerial Image



















Experience & Qualifications

Similar Projects

Missouri Alternative and Renewable Energy Technology Center (MARET)

Neosho, MO

CHALLENGE

As a sub-consultant for Kromm, Rikimaru and Johansen, site design services were required for a proposed LEED certified building on the campus of Crowder College. The existing drainage flowed adjacent to the proposed building and LEED points were sought for stormwater runoff and quality.

SOLUTION

TSE designed two detention ponds with grass lined channels for improving runoff quantity and quality. Additionally, TSE aided in design of ADA-compliant walkways as well as gravel paved staging for vehicles.

FEATURES

- LEED Project pending gold certification.
- ADA Walkway to green roof.
- Rain Water Harvesting
- Gravel Paved staging area



MARET Center
Crowder College, Neosho, MO

References:

Kromm Rikimaru Johansen
Michael S. Lyss, Vice President
314.452.7477

Crowder College
Alan Marble (Former President)
417.625.9501



MARET Center
Crowder College, Neosho, MO





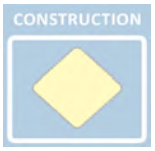














Experience & Qualifications

Similar Projects

Wildcat Glades Audubon Center

Joplin, MO

CHALLENGE

The architectural firm, Gastinger Walker Harden, needed a engineer sub-consultant to provide sustainable design features for the Wildcat Glades Audubon Center. The goal was to build a L.E.E.D. certified building.

SOLUTION

The permeable parking lot utilizes a plastic grid/sand/gravel system and filters latex tire rubber, oil, antifreeze, and other liquids leaked from cars. Water that normally is diverted to storm drains is allowed to seep back into the ground.

Many of the trails are surfaced with reused asphalt millings from area roads and include 6% pulverized, recycled glass.

Timers on parking lot lights save energy and also reduce light pollution, which harms some nocturnal creatures. It is estimated 4-5 million birds in the U.S. are killed annually by colliding with buildings and towers due to light pollution at night. The exterior light fixtures direct light downward.

FEATURES

The Audubon Center is a U.S. Green Building Council Silver L.E.E.D. Certified facility.



Wildcat Glades Audubon Center
Joplin, MO

Reference:
Gastinger Walker Harden
Matt Gearheart
816.421.8200

Wildcat Glades
Tony Robyn (Joplin Disaster Recovery Coordinator)
417.624.0820 ext. 541



Wildcat Glades Audubon Center
Joplin, MO



References

Mike Stewart, Public Works Director
City of Muskogee
918.684.6331

Projects

43rd and 45th Street Reconstruction. Both industrial roadways required reconstructing to make the industrial zoned area more attractive and functional for growth.

Five city intersections reviewed for planned geometric and capacity improvements. These improvements are needed for future economic growth.

- Similarly sized community (Muskogee)
- Transportation and traffic engineering

Dan Johnson, PE, City Engineer
City of Joplin
417.624.0820

Projects

Numerous stormwater drainage projects including Joplin Creek, Hill Street and Texas Avenue.

Site design on three Joplin Fire Stations.

Site design for a Public Training Facility for Joplin police and fire personnel.

20th Street Multi-Use Trail.

- Similarly sized community (Joplin)
- Storm water engineering
- Site design for public facilities
- Transportation (bike and pedestrian) engineering on the 20th Street corridor

Dave Johnson, Contractor
Construction Adventures
417.624.0201

Projects

Completed the site design for the Bel-Aire Plaza Redevelopment project.

- Major site design project in Joplin on the 20th Street corridor. Similarly-sized project
- Innovative and challenging storm drainage
- Demonstrates coordination with Contractors

Brad Erwin, Architect
Paragon Architecture

Projects

Completed site design for Joplin Fire Station #2.

Completed site design for FEMA Safe Room for McDonald County High School.

Completed site design for new Salvation Army Store in Joplin, MO.

- Site design for public facilities
- Demonstrates coordination with Architects

Steve Owen, Historic Stockyards District, LLC
Joplin Regional Stockyards
417.548.2333

Projects

Completed site design for the mixed-use development of the Historic Joplin Stockyards site. Development includes multi-family residential, retail and hospitality.

- Similarly-sized project & community (Joplin)
- Mixed-use development
- Demonstrates coordination with private developers

Sub-Consultant References

Design Workshop

Gary Janzen (Wichita Midtown)
Asst. Director of Public Works & Utilities - City Engineer
Wichita, KS
316.268.4501

Matt Thibodeaux (Bagby Streetscape)
Executive Director, Midtown Redevelopment Authority (MRA)
713.526.7577

CJW Transportation Consultants

Troy Bolander
Planning & Community Development Manager
City of Joplin
417.624.0820

Dave Hertzberg
Former Director of Public Works
City of Joplin
417.624.0820

Disclosure Statements

Disclosure Statement

The company Tri-State Engineering, Inc., (hereafter referred to as "firm"), nor firm's staff or proposed subcontractors have been involved in any library predevelopment discussion, design, planning, cost-estimating, or related work of the city-retained master developer, Wallace Bajjali Development Partners, to include brokerage relationships, commission arrangements, overrides or any other compensation arrangements.

Clayton Cristy, PE (Type or Print Name)

Firm's Representative with legal binding authority



Signature

11/20/14

Date

Disclosure Statement

The company DESIGN WORKSHOP, (hereafter referred to as "firm"), nor firm's staff or proposed subcontractors have been involved in any library predevelopment discussion, design, planning, cost-estimating, or related work of the city-retained master developer, Wallace Bajjali Development Partners, to include brokerage relationships, commission arrangements, overrides or any other compensation arrangements.

KURT CULBERTSON (Type or Print Name)

Firm's Representative with legal binding authority



Signature

11-20-2014

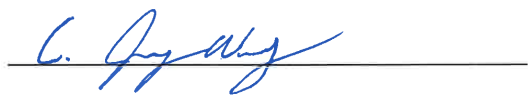
Date

Disclosure Statement

The company CSW TRANSPORTATION, (hereafter referred to as "firm"), nor firm's staff or proposed subcontractors have been involved in any library predevelopment discussion, design, planning, cost-estimating, or related work of the city-retained master developer, Wallace Bajjali Development Partners, to include brokerage relationships, commission arrangements, overrides or any other compensation arrangements.

C. JAY WYNN (Type or Print Name)

Firm's Representative with legal binding authority



Signature

11/20/14

Date

Pending Claims

There are no pending claims or judgements regarding any three of the firms listed on this team.

APPENDIX

DW Legacy Design® defines both a rigorous methodology for our work as well as a quadruple bottom line for evaluating our results in terms of environmental, economic, community, and artistic sustainability. We define sustainable development as follows:

Sustainable development seeks to balance the goal of improved quality of life today and in the future with the necessity of protecting the ecological systems upon which life depends. Quality of life is created by healthy economies, environments, and communities, as well as by natural beauty and art. Talking about sustainability is one thing; actually achieving it is another. For each of our projects we evaluate the current conditions of a site and identify ways to improve sustainability that we incorporate into our designs and built work while meeting client financial objectives. We have defined specific sustainability goals and measures for environment, economics, community, and art that we use to guide us during our project work:

Environment
Design Workshop will promote environmental sustainability by creating designs and built work intended to preserve pristine natural resources and restore/enhance damaged ecological systems. The potential impact of a Design Workshop project on the health of ecological systems will be measured according to its potential to influence one or more of the following environmental sustainability indicators, or metrics: remediation costs, air, water, and soil pollution (including water temperature and turbidity), soil erosion, natural flora, fauna, and microbe populations, available habitat for same, biodiversity of same, invasive species populations, green building/community planning, green construction techniques, land put in conservation easements, drinking water quality/treatment needs, aquifer depletion, riparian health, and resistance to climate change and severe weather events.

Economics
Design Workshop will promote economic sustainability by creating designs intended to advance the economic well-being of communities while protecting and enhancing ecological systems and meeting client and firm financial objectives. The potential impact of a Design Workshop project on economic well-being will be measured according to its potential to influence one or more of the following economic sustainability indicators, or metrics: project financing, disposable incomes, employment rates, home ownership rates, housing/jobs balance, real estate values, local business ownership rates, business valuations, worker productivity, energy efficiency, waste reduction, availability of affordable housing, availability and affordability of quality health care, availability of quality public education, educational achievement, elimination of subsidies, and the fair distribution of these outcomes across all socioeconomic segments within the subject community.

Community
Design Workshop will promote community sustainability by creating designs intended to provide safety, health, pleasure, recognition, belonging, esteem, and opportunity for self-actualization within communities. The impact of a Design Workshop project on community health will be measured according to its potential to influence one or more of the following community sustainability indicators, or metrics: the match between demographic interests and availability of community amenities such as recreation, library, retail, worship, etc., percent of residents that work in the community, availability and use of public gathering spaces, availability and use of cultural centers, landmark sites, light pollution, noise pollution, view pollution, open space area and quality, number of public vs. private organizations, charitable organizations, charitable giving within community, local media organizations (traditional and new), safety, homelessness rate, health status, mortality rates, building density/type, availability of public transit/commute times/walkability/bikability, percent of residents that work locally, regressive taxes, access to education, educational achievement, child care cost/availability, and travel time to emergency health care facilities. As for economic well-being, the fair distribution of these outcomes across all socioeconomic segments within the subject community is critical.

Art
Design Workshop will promote sustainable art in the built environment through the artistic qualities of its designs. The artistic qualities of a design will be measured according to the following art sustainability indices, or metrics: art development process (e.g., well-defined dilemma, thesis), iconic quality (e.g., site specificity/context, cultural connection, intellectual and emotional content), artistic quality (e.g., timelessness, innovation, compositional excellence), physical longevity (i.e., ability to withstand the elements/use), and visitation/appreciation.

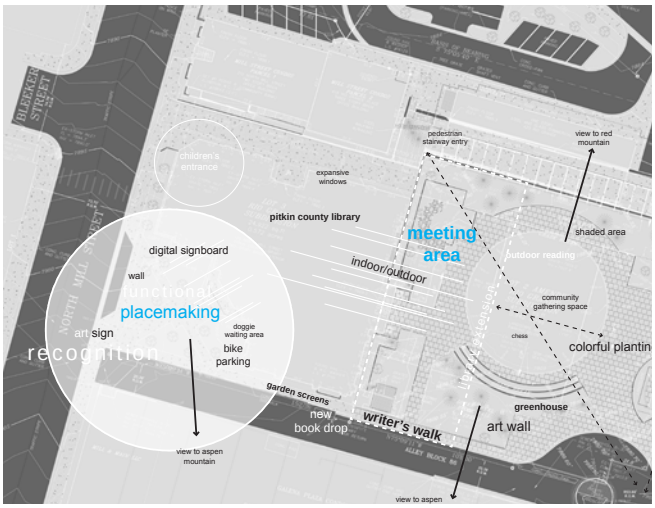
Experience & Qualifications

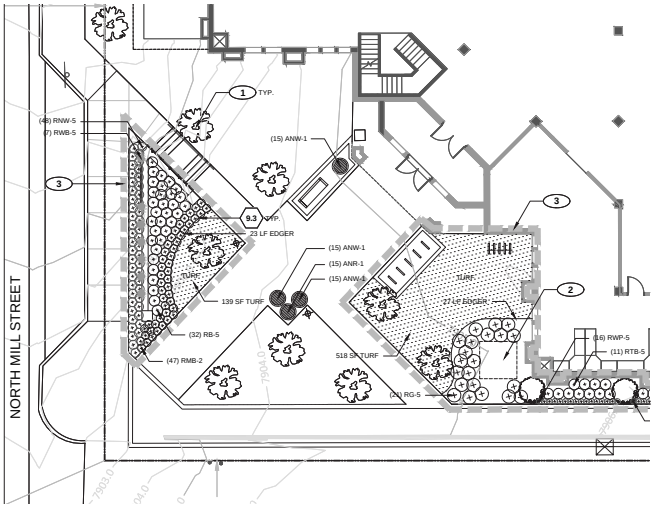
Landscape Architecture

DESIGNWORKSHOP

Pitkin County Library
Aspen, Colorado







Libraries are about much more than books these days! With advances in technology and information availability, libraries are becoming hubs for their communities. They are the places where people come to surf the web, do research, check out dvd's or cd's , obtain digital downloads and gather for events like teen reading clubs.

The 20-year old Pitkin County library occupies a prominent location in downtown Aspen adjacent to the Rio Grande Plaza that sits atop the city's public parking structure. Its collection boasts over 110,000 books. More than 190,000 items including digital media were checked out in 2010. The library is in the process of planning to meet future needs and trends. A proposed expansion would add about 9,000 square feet of space, spread over two floors, on the east side of the building, bringing the entire, three-story structure to roughly 30,000 square feet. Construction of the remodel and addition will cost approximately $10million and will require voter approval for half the funds.

Design Workshop is a key member of the library's design team, serving as the landscape architects and land planners for the project. The firm has been involved from initial feasibility studies and public outreach sessions to completion of schematic design. Design Workshop participated in meetings, with Pitkin County BOCC and Aspen City Council and is currently preparing the land use application to the City and beginning design development. In addition there has been close coordination with city staff who are working on the redesign of the plaza on top of the parking garage to create a seamless connection between the building and the public open space. Design Workshop is addressing creative solutions to onsite stormwater retention and focusing on creating a memorable entry experience.



Pitkin County Library
Aspen, Colorado

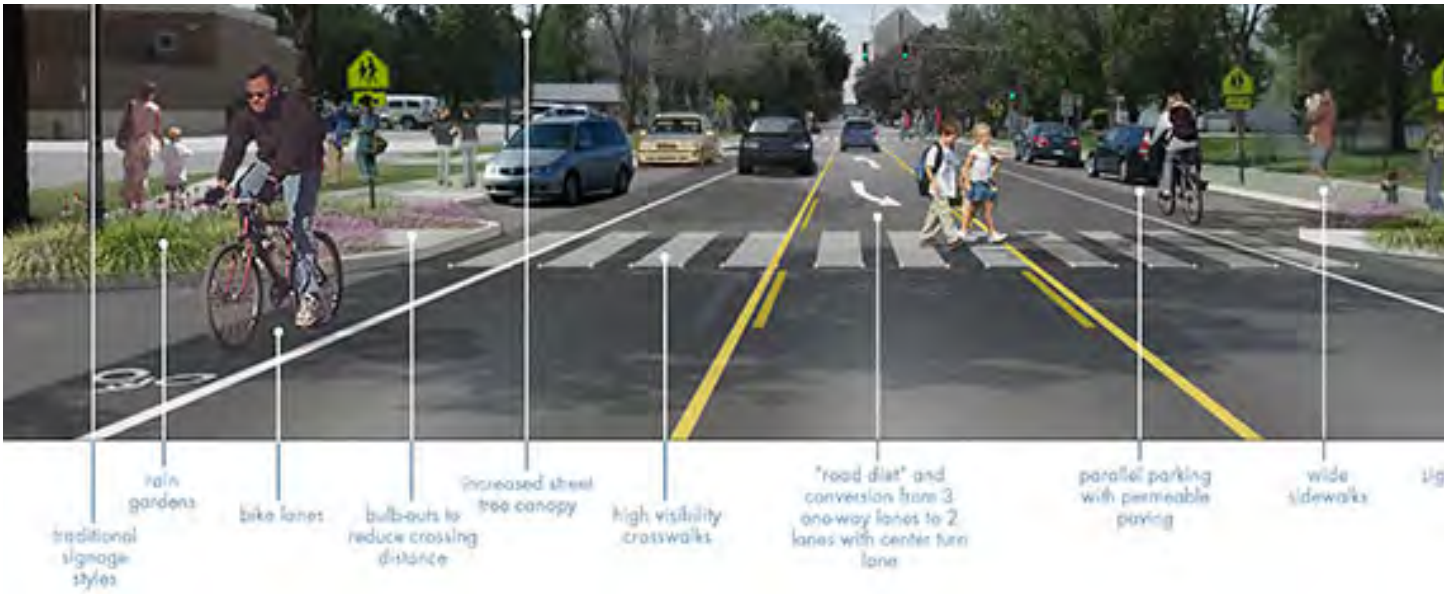
Experience & Qualifications

Landscape Architecture

PROJECT EXAMPLES | DESIGN WORKSHOP

WICHITA MIDTOWN TRANSPORTATION + STREETSCAPE MASTER PLAN

wichita, kansas



In 2010 and 2011, Design Workshop led a multi-disciplinary team, including LSC Transporation Consultants for the City of Wichita to complete a comprehensive transportation and streetscape plan for the historic Midtown neighborhood, located just north of downtown Wichita. Citizens and city leaders expressed concerns regarding pedestrian and bicycle safety, traffic speed and volume, crime, and the economic decline of retail corridors and residential streets in the neighborhood. Design Workshop led a series of public meetings, in English and Spanish (there is a significant Hispanic community in Wichita), in order to gain input from the public and to create preliminary and final conceptual plans for the neighborhood. The public engagement strategy included the use of "keypad polling" at public meetings, online surveys, and we also worked with schools to have children take surveys home with them to their parents. In this way, we were able to ensure that input and opinions were being obtained from a majority of stakeholders, including those not inclined to attend public meetings. These strategies were implemented throughout the design process.

Through the rigorous public engagement process, the team learned what they needed to address, and in so doing, introduced potential traffic calming strategies, the use of roadway realignments, the potential conversion of one-way streets to two-way streets, signage and wayfinding, lighting, and monumentation. The final plan explored how new "complete streets" concepts for the retail corridors passing through Midtown could help stimulate reinvestment in the surrounding neighborhoods. The master plan for Midtown included a detailed implementation strategy outlining the phasing of improvements, cost estimates for improvements over different phases, and identification of potential funding sources for improvements. The City of Wichita has integrated the plan into its Capital Improvement Plan for the entire municipality.

CLIENT

City of Wichita
Gary Janzen
Chief Design Engineer
316.268.4367
gjanzen@wichita.gov

SERVICES

Urban Design+Master Planning
Landscape Architecture
Community Outreach
Public Facilitation
Cost Estimating
Implementation + Maintenance Strategy

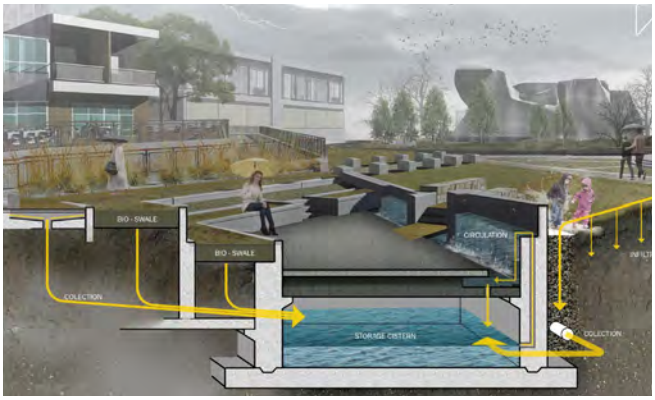
Experience & Qualifications

Landscape Architecture

DESIGNWORKSHOP

Modern Mixed Use + Storm Water Park
Mapleton, Iowa







The regenerative potential of a site can often be discovered following a major destructive event. The deliberation and method through which the new landscape vessel takes form can be just as important as the form itself, and may become a "blue print" for future recoveries.

Mapleton, Iowa, was razed by a Tornado in 2011. Commercial, residential, and public, properties were left in various degrees of destruction; many were abandoned all together. The town and its 1,300 residents were left with an opportunity to ponder their future as a community, and re-define their identity.

The Mapleton Grain Co. site is both a prominent symbol of destruction, and a catalyst for renewal. The site's management and its surroundings will evolve as a case study and blue print for future development. Our goal is to assist Mapleton and similar communities, by providing a method for unifying the core elements of object, space, and people. This "case study" demonstrates the potential of what landscape architecture can provide for a community, and exemplifies how the profession can inspire a community to empower itself.

Project Goals

- To describe and assist the town of Mapleton in their process of long term recovery.
- To convert what are now considered remnants and debris of the past into functional, ecological, and esthetic elements of the civic landscape.
- To devise a method through which to address the development of blighted sites using the basic elements of landscape architecture.

CJW Transportation Consultants, L.L.C. is located in Springfield, Missouri at 5051 S. National, Suite 4-110 and was established in April 2005. CJW consists of professionals who work independently as well as collectively to provide a full range of professional services in transportation and civil engineering. The goal of CJW is to specialize in the design of public and private infrastructure with a mission to provide engineering solutions. CJW was formed specifically to provide superior services to public agencies. CJW has gained a reputation state wide for our expertise in transportation engineering , and has completed projects across the state of Missouri including Joplin, St. Louis, Kansas City, Columbia, and Branson to name a few. CJW's resume also includes work for neighboring states including Kansas, Oklahoma, and Arkansas. While CJW is a relatively small company, our reputation for excellence has allowed us to gain the respect of clients far beyond southwest Missouri.

CJW's services include:

- Transportation
- Traffic Signal Design
- Transportation Projections
- Computer Modeling
- VISSIM
- Access Management
- Transportation Planning
- ITS Planning and Design
- Parking Studies
- Traffic Impact Analyses
- Site Circulation Studies
- Intersection Design
- Signing and Marking
- Roadway Geometrics
- Roundabout Design & Planning

The staff at CJW have more than 100 years combined experience in transportation engineering.

Of the 77 PTOE's in Missouri and the 2,662 PTOE's Worldwide CJW currently employs two of them.

CJW has been a previous recipient of the Transportation Achievement Award presented by the Ozark Chapter of the Institute of Transportation Engineers.

- Cutting edge technology in all practice areas and extensive depth of experience
- Qualified and established DBE firms
- Green Concepts including pervious pavement; sidewalk, ADA, curb and gutter, pedestrian crossing installation; natural plantings etc.
- Proactive– Able to look ahead to provide solutions that will accommodate future needs
- Innovative-Able to look beyond the obvious to solve complex problems

Library

Family Activities

Outdoor Amphitheater

Public Technology

Integrated Sociability

Parking

Park

Year Round Activity

Multi-Use Trails

Public Transit Links

Native Landscape

Sustainable Stormwater

Down Town Joplin

(44) Business Loop - S. Main Street

(44) E. 17th Street

15 Street

20th Street

Connecticut Ave.

Project Tract

Tri-State Engineering

Planning & Scope	**Clayton Cristy**	**Shaun McConnaughey**	**Bill Sherraden**	**Steve Lewis**	**Jay Wynn**	**Mike Albert**	**Brian Menke**
	Principle-In-Charge	Project Engineer	Sr. CAD Designer	Project Surveyor	Traffic Operations	Landscape Architect	Construction Inspector
Assemble/review site data		X					
Meet personnel for issues/problems	X						
Coordinate project activities/regulatory approval		X					
Master site plan		X					
Traffic study					X		
Rezone all parcels				X			
Boundary and topo surveys				X			
Design review package/collaborate with Architect		X	X				
Landscape design						X	
SWPPP/Erosion & Sediment		X					
Attend coordination meetings	X	X				X	
Suppplementary assistance for bids/bidding addenda		X	X			X	
Close out docs		X				X	X
Design & Construction Phase							
Construction docs(grading, layout, ADA, paving, etc)		X	X			X	
50%/90% plan reviews and as-builts		X	X				
Plans coordinated between consultants		X				X	
Bid docs include all fed provisions		X				X	
Coordination with MEP and Structural, General Contractors			X				
Separate Drawing packages (Site/Civil & Core & Shell)			X			X	
75% complete, furnish permit docs set		X					
Pre-Construction Conf. and contractor bid review meetings	X	X					
Interpret and clarify docs and field construction issues							X
Review/approve shop drawings, samples, etc.		X					
Visit project to monitor and verify progress		X					X
Prepare/issue addenda requests		X	X				
Attend weekly construction meetings at job site							X
Conduct 2 project reviews and appropriate punch-list							X











MURPHY BLVD PARK
MURPHY BLVD PARK
MURPHY BLVD PARK
PARR HILL PARK
12th
13th
14th
15th
16th
17th
18th
19th
20th
21st
22nd
Campbell
Florida
Mississippi
New Hampshire
Massachusetts
Kansas
Chris
Murphy
Saint Louis
Delaware
Connecticut
New Jersey
Maryland
Carolyn
Texas
Highview
Vermont
Hampshire
Rhode Island
Park
Mc Connell
Patterson
Brownell
Fairlane
Lyndell
Imagery ©2014 , DigitalGlobe, USDA Farm Service Agency

Proposed Development Site

- Project Tract
- Project Trails
- Parks
- Sidewalks
- Streets

Stormwater Services

- Pipes
- Channel

Trails

- Proposed
- Existing
- Concrete Shared
- Offroad Asphalt

1 inch = 400 feet

0 200 400 800

N

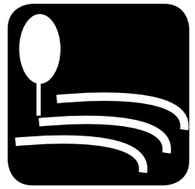
TSE TRI-STATE ENGINEERING

Google

Imagery ©2014 , DigitalGlobe, USDA Farm Service Agency


Library


Family Activities


Outdoor Amphitheater


Public Technology


Integrated Sociability


Parking


Park


Year Round Activity


Multi-Use Trails


Public Transit Links


Native Landscape


Sustainable Stormwater



Pitkin County Library - Aspen, Colorado
Design Workshop and StudioJDK