

# EC-22-82 CITY OF ALBUQUERQUE Albuquerque, New Mexico Office of the Mayor

Mayor Timothy M. Keller

### **INTER-OFFICE MEMORANDUM**

# DATE: April 22, 2022

TO: Isaac Benton, President, City Council

FROM: Timothy M. Keller, Mayor

SUBJECT: Mayor's Recommendation of Engineering Consultants for City Wide On-Call Engineering Services

The Selection Advisory Committee corresponded via email on April 21, 2022 to consider the following project.

- Project: Project No: 6098.93; Engineering Consultants for City Wide On-Call Engineering Services
- Agency: Department of Municipal Development

Project Description: Multi-disciplinary engineering firm to provide on-call engineering services for a variety of City wide projects. Projects may require civil, structural, mechanical, and/or electrical engineering services and are to be provided on an as-needed basis for all City departments. Services may include all phases of design, including studies and reports, public information activities, preliminary design, final design, permitting and possible bidding and construction phase services. On-call assignments may require same day response by the selected engineering team, therefore the team will be expected to have engineering services available locally.

The Committee made the following recommendation:

Bridgers & Paxton Smith Engineering Wilson & Company

The Cover Analysis, Score-Sheet Compilation and Minutes of the SAC Meeting are attached. Therefore, in accordance with Section 14-7-2-1 et seq, ROA 1994, the following is my consultant selection recommendation concerning the procurement of professional services for the above listed project:

Bridgers & Paxton Smith Engineering Wilson & Company Mayor's Recommendation of Bridgers & Paxton, Smith Engineering, and Wilson & Company for Project No: 6098.93; City Wide On-Call Engineering Services.

This recommendation is being forwarded for Council consideration and action.

Approved:	

C Sarita Nai Date

Chief Administrative Officer

Approved as to Legal Form:

DocuSigned by: 4/25/2022 | 3:02 PM MDT awen keep Esteban A. Aguilar, Jr. Date **City Attorney** 

Recommended:

-DS DŁ

DocuSigned by:

4/25/2022 | 2:01 PM PDT

Petrick Montoya, Director Date Department of Municipal Development

MIM Attachments:

Cover Analysis Composite SAC Evaluation Form Minutes of the SAC Meeting

### **Cover Analysis**

### 1. What is it?

Provide on-call engineering services for a variety of City wide projects. Projects may require civil, structural, mechanical, and/or electrical engineering services and are to be provided on an as-needed basis for all City departments. Services may include all phases of design, including studies and reports, public information activities, preliminary design, final design, permitting and possible bidding and construction phase services. On-call assignments may require same day response by the selected engineering team, therefore the team will be expected to have engineering services available locally.

### 2. What will this piece of legislation do?

This project will enable City departments to acquire professional engineering consulting services on an as-needed basis in a quick turnaround time.

### 3. Why is this project needed?

The on-call contact will allow small and time sensitive projects to be designed in a timely manner.

### 4. How much will it cost and what is the funding source?

It is estimated that this project will not exceed \$1,000,000.00 in design and /or construction phase services. Funding will come from various sources as required.

# 5. Is there a revenue source associated with this contract? If so, what level of income is projected?

There is no revenue source associated with this contract.

### 6. What will happen if the project is not approved?

The lack of on-call engineering service contracts will impact the ability of City departments to construct and implement small City wide engineering projects in a timely manner.

# 7. Is this service already provided by another entity?

Other on-call contacts are available, however, the current demand for engineering services from various City departments will exceed the capacity of these contracts in the near future.

### Composite Selection Advisory Committee Evaluation Form

### Project No's: 6098.93; Engineering Consultants for City Wide On-Call Engineering Services

DATE: 4/22/22

Evaluation Criteria	Maximum	Firm Name	Firm Name	Firm Name
	Points	Bridgers & Paxton	Smith Engineering	Wilson & Company
I. General Information				
<ol> <li>Provide Name and Address of Respondent and, if firm, when firm was established.</li> </ol>	25	25	25	25
<ol> <li>Provide number of employees, technical discipline and registration.</li> </ol>				
3. Indicate where the services are to be performed.				
II. Project Team Members				
1. Provide organization plan for management of the project.				
<ol><li>Identify all consultants to be used on the project.</li></ol>				
<ol> <li>Provide qualifications of project team members shown in organization plan, including registration and membership in professional organizations.</li> <li>Provide any unique knowledge of key team members relevant to the project</li> </ol>	75	70	65	72
III. Respondent Experience				
<ol> <li>Describe previous projects of a similar nature, including client contact (with phone numbers), year services provided, construction cost (if applicable), and a narrative description of how they relate to this project.</li> </ol>	100	87	83	85
<ol> <li>Provide examples of the Project Manager's City experience within the past five (5) years that serve to demonstrate the the Project Manager's knowledge of City procedures.</li> </ol>				
<ol> <li>IV. Technical Approach</li> <li>Describe respondent's understanding of the project scope.</li> <li>Describe how respondent plans to perform the services required by the project scope.</li> </ol>	100	87	84	87
<ol> <li>Describe specialized problem solving required in any phase of the project.</li> </ol>	100	07	04	07
V. Cost Control				
<ol> <li>Describe cost control and cost estimating techniques to be used for this project.</li> </ol>				
<ol> <li>Provide comparisons of bid award amount to final cost estimate for projects designed by the respondent during the past two (2) years. The consultant may provide</li> </ol>	100	86	81	82
justification for any discrepancies that may exist with				
this information.				
VI. Quality and Content of Proposal				
1. Evaluator's rating of overall quality of proposal.	100	92	92	91
Total Possible Points	500	500	500	500
Total Points (Before Point Deductions)		447	430	442
Minus High and Low Scores Total		176	172	176
Total Points (Minus High and Low Scores)		271	258	266
Minus Point Deductions (If Applicable)		0	0	0
Sub-Total (All Applicable Deductions Applied)		271	258	266
Plus Tie Breaker Points (If Applicable)		0	0	0
SAC TOTAL SCORES		271	258	266
Plus Interview Scores		0	0	0
FINAL SCORES		271	258	266

Minutes of the Meeting of the Selection Advisory Committee April 21, 2022

via Email

### Engineering Consultants for City Wide On-Call Engineering Services

### **Project No: 6098.93**

### **Present:**

Carlos Montoya, PM, Department of Municipal Development Martin Carrasco, PE, Department of Municipal Development Logan Patz, PE, Department of Municipal Development Manh Tran, PE, Department of Municipal Development Mark Motsko, Department of Municipal Development

### Staff:

Myrna Marquez, Administrator, Selection Advisory Committee

Six proposals were received in response to the Request for Proposals.

### **Project Description:**

Multi-disciplinary engineering firm to provide on-call engineering services for a variety of City wide projects. Projects may require civil, structural, mechanical, and/or electrical engineering services and are to be provided on an as-needed basis for all City departments. Services may include all phases of design, including studies and reports, public information activities, preliminary design, final design, permitting and possible bidding and construction phase services. On-call assignments may require same day response by the selected engineering team, therefore the team will be expected to have engineering services available locally.

### **Estimated Compensation** \$ 1,000,000.00

The Administrator contacted the SAC Committee and RFP respondents on April 15, 2022 and advised them that this meeting would take place via email. She reminded the SAC Committee to have their scores and comments emailed to her by 11:00am on April 21, 2022.

The Administrator collected the Committee members' scores and she deleted the high score and low score and then totaled the proposal scores. The Administrator applied Point Deductions because the two highest scores were within 5% (25 points) of each other's total allowed scores but the Point Deductions applied did not affect the highest ranked firms. The Committee and respondents were advised of the final scores and the Administrator asked the Committee if there was a motion for interviews; no motion was made. The Administrator verified the scores prior to submitting the Committee's recommendation to the Mayor.

Final scores reported via the email meeting were as follows:

Bridgers & Paxton	271
Chavez – Grieves	249
Molzen Corbin	257
Smith Engineering	258
WHPacific	240
Wilson & Company	266

The Administrator informed the Committee of the following ranking of the firms based on their scores and subject to verification of Total Final Points:

Bridgers & Paxton	271
Smith Engineering	258
Wilson & Company	266

There being no further business before the Committee, the Administrator adjourned the email meeting by emailing everyone at 2:22pm on 4/21/2022.

<u>Myrna Márquez</u>

Myrna Marquez, Administrator Selection Advisory Committee

cc: City Clerk

# **City Wide On-Call Engineering Services** Project No: 6098.93

City of Albuquerque, NM





Proposal presented April 1, 2022

# Introductory letter

April 1, 2022

City of Albuquerque Department of Municipal Development Selection Advisory Committee Attn: Myrna Marquez, Administrator E: myrnamarquez@cabg.gov

#### RE: City of Albuquerque, City Wide On-call Engineering Services, Project No: 6098.93

Dear Selection Advisory Committee:

At Wilson & Company, Inc., Engineers & Architects (Wilson & Company), our multidisciplinary, experienced team is ready to support the City of Albuquerque (City) on the various tasks and services required under the Citywide On-call Engineering Services contract.

Headquartered in Albuquerque, Wilson & Company is a local partner in furthering and accomplishing the City's on-call projects. From the earliest stage of planning through completion, we collaborate with the City to meet the project's aesthetic, functional, and financial requirements. Wilson & Company has assembled a team of energetic, dedicated professionals who bring an array of talent, expertise, and fresh approaches. Our team will support the City's needs by listening and demonstrating our comprehension of your objectives, as we balance exceptional design with effective cost and project controls. By choosing Wilson & Company for this important contract, the City will receive:

#### A project manager with 16 years of experience leading on-call contracts for state and municipal clients.

Audra Gallegos, PE, will be the project manager for this on-call contract. Audra brings in-depth understanding of the City's needs, processes, requirements, and concerns to each project or task assignment. She is currently the project manager for the City's Neighborhood Traffic Management Program (NTMP) On-call and the Council Services Planning On-call, which includes studies such as the Juan Tabo Connectivity Study and the 118th Street Study. Under these two on-call contracts, she has worked successfully with the City Traffic Division and Council Services.

#### In-house professionals staffed to apply cost-conscious and value-based solutions.

Consolidation of in-house talent and technical staff helps control costs, create critical early alignment on analysis and direction, enhance quality control, and facilitate efficient communication with the City during each task. Wilson & Company provides a full team of more than 180 local planning, engineering, and architectural staff that understands what it takes to evolve a solution into reality. We regularly work in historic districts and cultural areas with an understanding that every project has varying considerations to be addressed.

#### A commitment to creating shared ownership in the success of each task order through Higher Relationships.

Higher Relationships is our culture at Wilson & Company, embodying how we partner with our staff, teammates, and clients. It is defined by five key values: discipline, intensity, collaboration, shared ownership, and solutions. By practicing these values, we build strong and lasting relationships with our partners. Wilson & Company values our on-going relationship with the City, and we do whatever it takes to meet and exceed expectations. Our team "does it right the first time," focusing on the details, without exception.

Wilson & Company is invested in our partnership with the City and in the future of its neighborhoods and communities. We bring a spirit of cooperation to all tasks associated with this on-call contract, and look forward to continuing to help the City achieve its goals.



4401 Masthead Street NE, Suite 150 Albuquerque, NM 87109 505 348 4000 (phone) 505 348 4055 (fax) wilsonco.com We hereby agree to enter into the Standard Agreement that applies to the project and to meet the described insurance requirements. Wilson & Company is the submitting organization for this proposal. Edward Cordova, PE, Vice President, is authorized to contractually obligate the company, and to negotiate the contract on behalf of the company.

For questions or clarifications regarding our submittal, or if additional information is required, please contact Audra Gallegos, PE, at 505 348 4110 or audra.gallegos@wilsonco.com.

Sincerely,

Ina Tull 1

Edward Cordova, PE, Vice President

Audra Gallegos, PE

Project Manager

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# Certifications

Appendix A: Pay equity worksheet

Appendix B: Agreement and insurance certification form

Appendix C: General and professional liability insurance coverage certificates



Team work, building relationships, and collaboration to get the job done.

Ashley Martinez



Higher Relationships is a dedication to providing the best service, quality, and individual pride with everything we do.

# Delivering value

Wilson & Company understands that to meet the needs of the City, our team must be experienced, responsive, collaborative, and focused. Our team will support the City with:

Subject matter experts with citywide experience.

Immediate response to task orders, assembling the right team for the work.

Collaboration with you to define scope of work, which will help mitigate and identify potential risks.

A focus on success, delivering innovative solutions on schedule and within budget.

Delivery of quality assurance and quality controlled services.

# I. General information

# Name, address, and phone number, date established

Firm name | Wilson & Company, Inc., Engineers & Architects
Headquarters | 4401 Masthead Street NE, Suite 150, Albuquerque, NM 87109
Phone | 505 348 4000
Date established | Firm: 1932, Albuquerque office: 1943

# Number of employees, technical discipline, registration

Wilson & Company has the resources necessary to provide the City with a specialized and knowledgeable team of professionals. Our New Mexico staff of more than 180 experienced individuals have immediate availability to work with our project manager, Audra Gallegos, PE, to develop approaches and solutions to each specific task under this on-call contract. See Figure 1 on page 3 for staff member registration and discipline experience.

# Location of services performed

All work will be performed from Wilson & Company's headquarters, located at the address mentioned above.

# II. Project team members

To provide attentive responsiveness and the highest level of technical capability to the City, our project manager, Audra Gallegos, PE, will rely on the expertise and experience of several key task managers. These task managers will be instrumental in the successful completion of all aspects of this contract, with each having unique and specialized skills to benefit the City. Audra will coordinate all activities of the team identified in the organization chart and serve as the single point of contact.

#### **Subconsultants**

#### **MRWM Landscape Architects**

(local to Albuquerque)

MRWM will be performing street/landscape design for this contract. They have been involved in the design of several City projects in the historic Barelas and downtown neighborhoods, including the Plaza at the Albuquerque Rail Yards.

#### Wood Environmental & Infrastructure Solutions (Wood)

(local to Albuquerque)

Wood will perform materials testing and geotechnical engineering for this contract. Their pavement engineering capabilities cover a spectrum of services including data collection, distress evaluations, inspections, destructive and nondestructive testing, and design engineering services incorporating laboratory testing services, geotechnical investigations, and other services related to asphalt and concrete pavement construction and rehabilitation. Recent City experience includes the Tierra Pintada Boulevard Concrete Pavement Roundabout, Cibola Loop Multi-generational Center, and Gibson Medical Center Cooling Foundations projects.



Figure 1. Staff	member	information	and	experience
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									Field	s of	spec	cializ	atior	า						
Staff member   registration number	Education level	City of Albuquerque Experience	Roadway Evaluations	Drainage Evaluations	Traffic Analysis	Public Meetings	Roadway Design	Storm Drain Design	Traffic Design	DRC Submittals	Structural	Architectural	Mechanical	Electrical	Utilities	Planning	Environmental	Plan Set/Const. Documents	Construction Meetings	Construction Management
Audra Gallegos   NM PE #23573	BS	•	•		•	•	•		•	•					•	•		•	•	
Stephen Lujan   NM PE #26338	BS	•	•			•	•			•					•			•	•	
James Lopez   NM PE #24897; CFM #NM-17-00412	BS	•		•		•	•	•		•					•			•	•	•
Edward Cordova   NM PE #15788	BS	•	•		•	•	•		•	•				•	•			•	•	•
Scott Perkins   NM PE #10272	MS, BS	•	•			•	•			•					•			•	•	
Derek Meier   NM PE #14504	MS, BS	•	•			•	•		•	•					•			•	•	
Leslie Romero   NM PE #21779	BS	•	•		•	•	•		•	•				•	•			•	•	
Conrad Ley   NM PE #21229	BS	•	•			•	•		•	•				•	•			•	•	•
Myra Candelaria   NM PE #25660	BS	•	•		•		•		•	•				•	•			•	•	
Glen Selover   NM PE #19273	BS	•		•				•		•								•	•	
Tyler Ashton   PMP #2597940 NM PE #16205; CFM #NM-17-00408	BS	•		•		•		•		•					•			•	•	•
Maryam Giahi   NM PE #17623	MS, BS	•		•				•		•								•	•	
Tom Van Etten   NM PE #5036; PTOE #371	MS, BS	•			•				•					•				•	•	
Chris Perea   NM PE #13686	MS, BS	•	•	•		•	•	•	•	•					•			•	•	•
Robert Garcia   NM PE #11408	BS	•	•			•	•		•	•					•			•	•	•
Ben Aragon   NM PS #15268	BS	•	•	•									•							
Coyote Sparrow   NM PS #17823	BS	•	•	•									•							
Ben Bachwirtz	BA	•				•										•				
Lorenzo Cornejo, El	MS, BS	•	•		•	•										•				
Tom Melton   NM PE #20554, DBIA	BS										•							•	•	•
Ram Mothe   Licensed in other states	MS, BS										•							•	•	•
Greg Gentle, El	MS, BS, AS, AAS										•							•	•	
Luke Smith   NM PE #27423	BS			•				•										•	•	•
Michael Wright   NM RA#005225	M.Arch, BAA											•								
Stacy George   NM RA #005867	M.Arch		•				•					•				•			•	•
Byron Smith   NM PE #21576	BS												•					•	•	•
Daniel Grijalva   NM PE #12673	BS													•				•	•	•
Brian Ambrogi   NM PE #17610	MS, BS	•																•	•	•
Ross Gabaldon   NM PE#26883	BS	•													•			•	•	•
Blake Roxlau	MA, BA					•										•	•			
Berenika Byszewski	MA, BS					•											•			
Noah Berke, AICP	MA,BA															•				

# **Qualifications of project team members**



NMPE #23573

**Education** B.S., Civil Engineering, University of New Mexico

#### Organizations

Institute of Transportation Engineers, American Society of Civil Engineers Board of Directors State Director

# Audra Gallegos, PE

Contract Manager, Traffic Analysis

Audra has worked on many City of Albuquerque projects and is currently managing the City's NTMP and the Council Services Planning On-call contracts. Under these two On-call contracts, she has worked with the City Traffic Division, Council Services, and Department of Municipal Development (DMD). Wilson & Company has delivered 37 tasks under the NTMP On-call, entailing more than 60 studies. Audra has worked on four design projects under this contract, which has allowed her to become familiar with the 2020 Development Process Manual (DPM). Audra's experience ranges from studies, reports, traffic calming designs, and public involvement, to street design. She has been a valuable asset with her experience in study development and in the analysis of new and existing facilities, site planning, utility coordination, and cost estimates. Audra is a key leader in the industry for traffic impact studies, parking studies, and roadway alignment studies, and is proficient in software such as HCS, VISSIM, and Synchro.

**Relevant experience includes:** NTMP On-call, City of Albuquerque, NM | Council Services Planning On-call, City of Albuquerque, NM | NM 45/NM 314/NM 317 Intersection Realignment, Pueblo of Isleta, NM | I-25 and Paseo del Norte Interchange, NMDOT, Albuquerque, NM | NMDOT Safety On-call, Albuquerque, NM



NMPE #15788

**Education** B.S., Civil Engineering, New Mexico State University

#### Organizations

Society of American Military Engineers, American Council of Engineering Companies, Institute of Transportation Engineers, NMSU-Academy of CAGE

# Edward Cordova, PE

Principal-in-Charge

Edward is responsible for all transportation operations in New Mexico, Arizona, and Texas. His experience ranges from planning studies and roadway/traffic design to construction management. He manages various types of projects, including transportation, traffic studies, signal design, safety studies, street design, and site development. Edward has a history of working on complex projects, managing all resources and staff required to successfully complete each On-call task.

**Relevant experience includes:** Council Services On-call, Albuquerque, NM | Neighborhood Traffic Management Program On-call, Albuquerque, NM | Americans with Disabilities Act (ADA) Transition Plan, Albuquerque, NM | Overwatch Towers, Kirtland Air Force Base (KAFB), Albuquerque, NM | 2nd Street/Prosperity Intersection Improvements, Albuquerque, NM | TRU-Waste Liquid Waste Facility, LANL, Los Alamos, NM | Building 1044 Improvements, New Mexico Air National Guard, Albuquerque, NM | Sandia National Labs IDIQ, Albuquerque, NM



NMPE #14504

#### **Education**

B.S., Civil Engineering, Southern Illinois University at Edwardsville

M.S., Civil Engineering, University of New Mexico

#### Organizations

Institute of Transportation Engineers, American Council of Engineering Companies

# Derek Meier, PE QA/QC Manager

Detail-oriented and experienced with City of Albuquerque processes and procedures, Derek is a proven leader because of his project management techniques, dedication, and capability to communicate well. Derek has been an active member in the engineering community and has prepared numerous designs for the City, NMDOT, and other municipalities and pueblos in New Mexico. His projects have varied from rural two-lane highway widening to full interstate reconstruction. Derek's experience includes roadway and trail widening/realignment, grading and drainage design, erosion control methods, utility design and coordination, corridor studies, traffic engineering, plan preparation, and cost estimating.

**Relevant experience includes:** Design Repair for Wyoming Blvd. Phase III, Kirtland Air Force Base, Albuquerque, NM | I-25 and Paseo del Norte Interchange, Albuquerque, NM | I-25 La Bajada Slope Mitigation, Santa Fe County, NM | I-40/US 491 Interchange, Phase IA/B/C Study, Gallup, NM | I-25 Raton (Exit 454 to Exit 460), Colfax County, NM | Border Highway West (Loop 375), Design Build, El Paso, TX | NDOT, On-call, AZ, NM, UT



NMPE #24897 CFM #NM-17-00412

**Education** B.S., Civil Engineering, University of New Mexico

#### Organizations

American Society of Civil Engineers, New Mexico Floodplain Managers Association

# James Lopez, PE, CFM

Site Design/Development, Hydrology/Drainage

James has experience in all facets of civil engineering. His primary responsibilities include leading teams in the design of urban streets, storm management systems, hydrology/hydraulic studies, civil site design and grading, sanitary sewer and water distribution lines. James has worked closely with various public works departments, cities, public schools facilities planning and construction departments, and county utilities departments. His design experience is strengthened with construction observation experience of many public school projects, hydrology/ hydraulic studies, and various civil site design projects. His attention to detail and strength in technical analysis and design are an asset to any project. He has modeling experience with a variety of hydrologic/hydraulic software including AHYMO-S4, HECHMS, HEC-RAS, and Civil Storm.

**Relevant experience includes:** Parking Lot Improvements at the City of Albuquerque Rail Yards, Albuquerque, NM | Downtown Transit Center–City of Santa Fe, NM | Iron Storm Drain–City of Albuquerque, NM | Paseo Del Norte and I-25 Reconstruction– NMDOT, Albuquerque, NM | Don Reservoir Improvements–City of Albuquerque, NM | University Boulevard at Tijeras Arroyo Improvements–City of Albuquerque, NM



#### NMPE #26338

**Education** B.S., Civil Engineering, University of New Mexico

#### Organizations

American Society of Civil Engineers, American Society of Highway Engineers, Institute of Transportation Engineers

# Stephen Lujan, PE

Roadway Evaluations/Roadway Design, Traffic Design, Preparation of Construction Documents

Stephen has more than seven years of engineering experience and has contributed to and led numerous local, tribal, state and federal transportation related projects. He is a detail-oriented leader who thrives on collaboration and teamwork. Stephen is driven to improve the communities in which he works by contributing to quality projects that meet high standards for feasibility and professionalism. He has become well-versed in the design of urban and rural streets, and he has completed scoping studies, traffic studies, grading and drainage plans, public involvement, and cost estimating.

**Relevant experience includes:** NTMP On-call, City of Albuquerque, NM | ADA Transition Plan Update, City of Albuquerque, NM | San Pedro Lighting Project, Lomas to Constitution, City of Albuquerque, NM | Sign Inventory Project, City of Albuquerque, NM | 50-Mile Activity Loop, City of Albuquerque, NM | Broadmoor Boulevard (Northern to Paseo del Volcan), City of Rio Rancho, NM | N5001 Toadlena to Two Grey Hills Project, Navajo DOT, Toadlena, NM | West Tsayatoh Road Project, Navajo DOT, Mentmore, NM | NM 4 Multi-Use Trail, Pueblo of Jemez, Jemez Pueblo, NM



#### NMPE #21576

#### Education

B.S., Engineering Technology, Mechanical, New Mexico State University

#### Organizations

American Society of Heating, Refrigeration, and Air-conditioning Engineers, National Fire Protection Associations, United States Green Building Council, Society of Fire Protection Engineers

# Byron Smith, PE

Mechanical/Electrical

As a licensed mechanical engineer and fire protection engineer, Byron is an asset to projects in the life-safety sector of vertical construction. He brings experience in HVAC engineering, modeling and analysis, construction administration, LEED, and energy audits to Wilson & Company's growing MEP capabilities and is an advocate for sustainable and energy efficient systems. Byron coordinates with owners, consultants, contractors, and occupant representatives for providing complete projects that meet the required scope, within budget, and on time. With his invaluable project management and leadership skills, Byron is agile in overseeing multiple design team members for simultaneous multiple projects to provide deliverables for all phases including programming, design development, construction documents, bidding, construction administration, and warranty inspections.

Relevant experience includes: SNL Laboratory Exhaust System, Albuquerque, NM | SNL ACRR Upgrade Study and Cost Estimate, Albuquerque, NM | SNL Limited Area Conference Room Feasibility Study, Albuquerque, NM | SNL Laser Laboratory Exhaust, Albuquerque, NM | Santo Domingo Trading Post, Santo Domingo Pueblo, Santo Domingo, NM | Acoma Fire Protection, Acoma Pueblo, Acoma, NM | Sandia National Labs IDIQ, Albuquerque, NM



NMPE #20554

**Education** B.S., Civil Engineering, Kansas State University

**Organizations** Design-Build Institute of America (DBIA), Member

# Tom Melton, PE, DBIA Structural/Bridge

Tom's experience focuses on the design and management of major projects. He has a successful history of bridge design and also been a trusted leader on multiple projects collaborating with DOT entities. He is well-experienced in facilitating Value Engineering (VE) studies for CDOT, having facilitated VE studies for several clients. He has held leadership roles including structures task manager, project manager, structure design engineer, bridge design manager, and senior design engineer. Tom has led projects using multiple project delivery methods. His design background provides a deep-rooted foundation for his current leadership role on transportation projects. Tom's history of structural design includes the design of complicated structures involving various material types and complex geometrics. He has also been involved in projects using accelerated bridge construction techniques.

**Relevant experience includes:** I-15; SR-73 to 12300 South Widening Design-Build, Salt Lake and Utah County, UT | SR-154 at Redwood Road, Interchange Design-Build, Riverton and Bluffdale, UT | Pecos Street over I-70 Bridge Replacement, Denver, CO | SR-189 Design-Build, ADOT, AZ | I-15; MP 8 Interchange Reconfiguration (DDI) Design-Build, St. George, UT | Bluff Street Interchange at Red Hills Parkway, St. George, UT | Jarales Road Grade Separation, Jarales, NM



#### NMPE #13686

**Education** B.S., Civil Engineering, New Mexico State University

M.S., Civil Engineering, New Mexico State University

**Organizations** Institute of Transportation Engineers

# Chris Perea, PE

### **Construction Management**

Chris oversees Wilson & Company's construction management team and is well-versed in site civil engineering and drainage engineering. Chris has provided construction phase services for several water and wastewater projects including sewer lines, transmission lines, distribution systems, meters, and well sites. His responsibilities include managing all phases of construction projects, reviewing plans and specifications, field supervision of project observation crews, contractor coordination, and tracking project quantities for payment.

**Relevant experience includes:** Boca Negra Dam, Albuquerque, NM | La Presa Detention Facility and West I-40 Diversion Channel, Albuquerque, NM | Southwest Valley Storm Drain Improvements at Rio Grande High School, Albuquerque, NM | West I-40 Diversion Channel, Albuquerque, NM | Lyon Blvd. Storm Drain, Albuquerque, NM | Calabacillas Arroyo Stabilization Project, Albuquerque, NM | Tingley Park Flood Controls Facility and Park Reconstruction, Albuquerque, NM

# Unique knowledge of key team members relevant to the project

Wilson & Company uses a collaborative approach to plan and manage engineering projects. We are structured to selfperform multiple disciplines and specialties in-house. These disciplines and specialties include our own field survey and right-of-way (ROW) team, structural design team, as well as our own environmental group in Albuquerque. Having these core disciplines under one roof has proved vital to our responsiveness and ability to successfully execute projects.

> **Audra Gallegos, PE |** Audra has worked on dozens of City projects throughout her career at Wilson & Company. Over the past 16 years, she has served as project manager, lead designer, or manager on projects that required all facets of City planning and design approvals and permitting, with each project requiring a diverse team of professionals and experts. Audra's current role as project manager of the Council Services Planning On-call has demonstrated her responsiveness and ability to facilitate multiple task orders.

> **Edward Cordova, PE |** Edward is responsible for all Wilson & Company transportation operations. As such, he is able to draw on resources including our staff in other states to use expertise. He has worked closely with Audra on the NTMP On-call. His City project experience includes the ADA Transition Plan and the NMDOT Paseo/Coors Traffic Study.

**Derek Meier, PE |** Derek was involved with creating Wilson & Company's overall quality management process. He is detailed oriented and has a wide-range of experience, which makes him an asset to every project he works on.

James Lopez, PE | James was the project manager on the Rail Yards Parking Lot Improvements, and drainage engineer on the Iron Storm Drain Reconstruction project. His on-going relationships with governmental agencies within the City, as well as with Bernalillo County, AMAFCA, Middle Rio Grande Conservancy District, and NMDOT, are beneficial for coordination with those agencies.

**Stephen Lujan, PE |** Stephen has experience in civil engineering focused on site development and roadway design. He has experience in roadway projects, permanent signing and striping, traffic studies and Public Rights-of-Way United States Access Board (PROWAG) standards and guidelines.

**Byron Smith, PE |** Byron is an asset to projects in the life-safety sector of vertical construction and has helped deliver multiple mechanical engineering projects for the Sandia National Laboratory IDIQ.

**Tom Melton, PE, DBIA |** Tom's experience spans four decades as a structural engineer, making him the ideal structures lead for this contract. He is experienced at facilitating VE studies for DOTs and finding innovative solutions for structure projects, having led 11 designbuild projects and 90 ATCs.

**Chris Perea**, **PE** | Chris' strength lies in the versatility of his experience in the design of projects combined with construction. His responsibilities include design and management of all phases of construction projects, reviewing plans and specifications, field supervision of project inspection crews, contractor coordination, and tracking project payment quantities.

# III. Respondent experience

The following project descriptions, performed by various team members on our organizational chart, illustrate our ability to provide broad services for our clients. We invite the City to contact the references associated with these projects to verify our ability to provide services within budget and schedule.

# On-call Traffic Engineering Services, Operations and Neighborhood Traffic Management Program (NTMP) | City of Albuquerque, NM

Client contact: Tim Brown, PE; Phone: 505 250 2587; Email: tjbrown@cabq.gov Date: 2018 to present; Cost: Varies by task

Wilson & Company is working with the traffic engineering department on this critical on-call contract, and has completed a variety of studies, data collection, and analyses throughout the City. Current responsibilities include:

- **Engineering study.** Review and analysis of the intersection of Avenida Cesar Chavez and Bradbury Drive to provide recommendations for potential improvements/enhancements for bicycles and pedestrians.
- **Multi-way stop control analysis.** Review and analysis of 20th Street NW and Bellamah Avenue NW, Paseo del Norte and Ventana West Avenue, and Lead Avenue and 10th Street, to determine if a multi-way stop control is warranted.
- **60+ speed studies throughout the City.** Analysis of data collected and evaluation of each site based on the COA NTMP Manual and ITE Traffic Engineering Handbook, based on speed, volume, crashes, and cut-through traffic.
- **Signal warrant/multi-way stop control analysis.** Review and analysis of Paseo del Norte and Ventana West, and Unser Boulevard and Summer Ridge to determine if a signal or multi-way stop control is warranted.
- **Traffic calming recommendations.** Present traffic calming alternatives for San Rafael Avenue, Gun Club Road, Harper Drive, Desert Springs Drive, Iliff Road, Freedom Way, Vivian Drive, and Yucca Drive at public meetings, recommending a final alternative and designing proposed alternative.
- **Traffic calming design.** Designed traffic calming measures and went through DRC approval for Gun Club Road, Amherst Avenue, Black Arroyo, and Yucca Drive.

### NMDOT Statewide On-call General Engineering Services | NMDOT

Client contact: Rhonda Lopez, PE; Phone: 505 231 4094; Email: Rhonda.Lopez@state.nm.us Date: 2019; Cost: Varies by task

Through this on-call Wilson & Company is assisting NMDOT throughout all six districts. Services on the on-call can range from surveying to engineering to construction support. Currently we have four tasks assigned to our on-call contract, in four different districts. Task order responsibilities included:

- **Replacement of the Manuelito Rest Area Leachfield.** The scope of work entailed the design of a new distribution manhole with five additional splitter boxes; replacement of existing infiltrators; and removal and replacement of low permeability sub-layers.
- Sierra County special economic development. Wilson & Company worked with several state and local partners to select a preferred site for the facility. Our team provided many technical analyses to NMDOT examining topographical, geotechnical, environmental, and ROW constraints, as well as permitting requirements.
- **NM 173.** The roadway redesign included a revision to the turnout located at station 115+54 to accommodate 3 feet of fill over the existing Williams Gas line within the existing NMDOT ROW. This revision also required a modification to the previously approved TCP for the City of Aztec.
- **US 54 additional PS&E services.** NMDOT requested that the US 54 CN 4100832 and CN 4100833 construction plan sets be combined into one set to bid concurrently. The plans were adjusted, adding a combined summary of quantities and a cover sheet. Additional meetings were scoped to ensure the plans were successfully combined and bid in the spring of 2020.

### Utility Improvements at the Rail Yards | Albuquerque, NM

**Client Contact:** Anthony Villanueva; **Phone:** 505 768 3826; **Email:** avillanueva@cabq.gov **Dates:** July 2018 - Current; **Cost:** Varies by phase

The City of Albuquerque contracted with Wilson & Company to provide engineering services for the Albuquerque Rail Yards site redevelopment. Responsibilities included:

- **Parking lot and outdoor pavilion.** The scope for this project included the reconfiguration of the parking lot to maximize onsite parking and work through removal of existing infrastructure. The site had various obstructions, fences, power poles, and railroad infrastructure throughout the site. The outdoor pavilion was a teaming opportunity with subconsultant MRWM. The seating area is a multi-use detention pond to hold the 100-year storm.
- Utility project. Wilson & Company designed utilities for the Blacksmith and Flue shops. The utilities included water, sewer, gas, electric, storm drain, and a duct bank for fiber optics within a 16' wide corridor. The Flue shop has been remodeled into offices and now has a Certificate of Occupancy with the Utility project completed. The project also accounted for future expansions and has utility stub outs strategically placed.
- **Streetscape project.** The streetscape project is a large sidewalk and frontage to the property including decorative fencing, landscaping, seating walls, and path lighting. This corridor will enhance the walkability to the site and provide connections to the community as well as connections to future projects.

### Sandia National Labs (SNL) IDIQ | Albuquerque, NM

Client Contacts: Matti Sokoll/Kellie Rae Shaw - Project Managers; Facilities Project Teams Phone: 505 845 0099 Date: 2021; Cost: Varies by task

The SNL IDOQ project enables our MEP team to work on a wide range of project types. The facility upgrades may be new buildings, additions, or complete renovations of existing spaces. We must be flexible to work with many project managers and provide any services that are needed to meet the SNL facility goals. Task order responsibilities included:

- **Building 892 Air Handling Units.** Wilson & Company designed the replacement of 21 air handling units on the roof, in mechanical rooms, and courtyards. We worked with SNL to implement a phasing plan for the sequence of construction to minimize downtime and occupant interruptions. This project involved significant upgrades to air handler ductwork and ventilation requirements, along with all new fully integrated controls for each air handler.
- Building 757. Design services for a ground up high security office building. This design required the installation of
  roof top air handlers and chillers for normal building and server cooling loads. We developed server room cooling
  systems for high density heat rejection, expanded capacity for conference room occupants, and provided general
  office cooling. All spaces had larger than typical computing heat rejection densities requiring special cooling attention.

# Project manager's experience within the last five years

Audra Gallegos has worked on various City projects throughout her career. She has served as project manager, lead designer, or staff engineer on projects that required all facets of City planning and design approvals. With her experience on these studies and design projects, Audra has become familiar with the City's process and procedures, including the 2020 Development Process Manual. Some of her recent City experience is shown below.

- Council Services Planning On-call
  - Juan Tabo Traffic Study (awaiting contract)
  - Universe Boulevard Traffic and Pedestrian Safety Study
  - Garfield Avenue Study
  - 118th Street Study
  - Juan Tabo Connectivity Study

- NTMP On-call
- Amherst Drive Intersection Design
- Black Arroyo Striping Plan
- Yucca Drive Traffic Calming Design
- Gun Club Traffic Calming Design

Figure 1. Sample task order development process

# IV. Technical approach

# Approach to on-call tasks

Upon receiving a scope of work identified by the City, each project will be analyzed by Audra to assess the needs and to select the personnel for the project, determining man-hours and time required to complete the project. Our team finds it effective to discuss the project face-to-face (or in video conference) with Carlos Montoya, the City's project manager and with City staff, to assure we fully understand the project's scope and goals. The proposed scope, schedule, and man-hours will be submitted to Carlos for his approval. This will confirm that all the needs for each project have been identified and will meet the expectations and time frame of the City. Depending on the on-call project, we will coordinate accordingly with City staff, AMAFCA, ABCWUA, NMDOT, Bernalillo County, etc., to verify the project covers all necessary items and follows required procedures as defined in the project scope. One of our highest goals is to build relationships with the project team, and establish an open and effective line of communication between Wilson & Company and City staff. Good communication in an effective team provides the City with the highest quality product possible.

# Plan to perform the services

Under this contract, Wilson & Company's team will become an extension of the City's staff, serving as team members for any engineering service the City may need. For each specific task assignment, Audra will review the task with City staff and then determine which Wilson & Company staff members are the most qualified, and who is best-



suited for the task based on individual expertise and familiarity with the project scope and area. Task managers will help lead tasks and provide an additional avenue for expertise and quick-response time.

City staff

The task manager will visit the proposed project site with City staff to gain a complete understanding of the task and its needs and challenges. After the site visit, we will prepare a detailed scope of work and fee estimate for the assignment. We will work with the appropriate technical staff to verify the assignment is properly addressed, and to develop a task order proposal for the City, as shown in Figure 1. Our team will work closely with the City to confirm a complete understanding of the work involved, and project expectations and objectives. Upon acceptance of a task order proposal, the project manager will work directly with the City to execute the task order and move towards a notice-to-proceed.

#### **Delivering value**

Wilson & Company's team is local to Albuquerque, so we are available to meet at project sites or in-person meetings on short notice.

# **Quality control procedures**

In 2012, Wilson & Company adopted a thorough quality management process as outlined in Figure 2. Quality manager Derek Meier and his team will verify the processes and procedures are consistent with standard practices.

# Specialized problem solving required in any phase of the project

Our team understands key processes and timing and has the technical ability to respond efficiently to all task requests. We have a proven track record of responding swiftly and efficiently to tasks as evidenced by our history of work with the City. Wilson & Company understands the needs and process to develop solutions, then executes the needed effort to implement that solution. Our team has an in-depth understanding of not only the design aspects, but the construction



implementations and costs, so that the full impacts can be addressed, minimizing costs and time for the City. Our past work ethic and specialized abilities allow Wilson & Company to provide a total task implementation process.

# **Public meetings**

Public meetings are often the key to success on projects and our team is especially adept in this facet of project development. Early communication and building of trust between our team and the residents, business owners, property owners, and users is critical to project success. For both the Council Services Planning On-call and the NTMP On-call contracts, Audra has led various public meetings to engage the public and answer questions. The Juan Tabo Connectivity study public meeting had approximately 100 attendees. We recommend using digital, electronic, and traditional methods to distribute and receive input. Wilson & Company will work with the City to set up a website or employ social media for any sensitive projects that need this level of outreach. We also strongly encourage resident, property owner, and business owner interviews as a component of our public involvement strategy.

# Traffic engineering (studies & reports)

#### **Delivering value**

Within the last two years, Audra has led 12 public meetings for just City of Albuquerque projects under the NTMP and Council Services Planning On-calls. She is familiar with the public involvement process which helps the process run smoothly.

We have recent experience with the City Traffic Division as we are currently assisting the City with the NTMP On-call. As the City continues to improve its transportation system, having a consulting partner that is familiar with the City's DPM will be paramount. Our staff is also well-versed in transportation publications, including the highway capacity manual, highway safety manual, MUTCD, traffic engineering handbook, manual on traffic engineering studies, National Association of City Transportation Officials Urban Street Design Guide, trip generation, roadside design guide, American Association of State Highway and Transportation Officials Green Book and Manual of Traffic Signal Design.

#### Figure 2. Quality management process

Our team has a broad background in traffic engineering applications, including:

- **Data collection |** In-house data collection, including pneumatic tube counters, electronic turning movement count boards, turning movement cameras, to collect volume, speed, and vehicle classification data
- **Operations studies** | Capacity analysis, warrants (stop control, signals, roundabouts, lighting, etc.), and development and implementation of coordinated signal timing plans
- **Inventories** | Inventory of roadway/intersection conditions or traffic signal equipment for analysis of improvements
- **Roadside surveys** | Origin-destination studies for transportation modeling activities, and administration of public questionnaires for travel assessment
- **Safety studies** | Conducting safety audits to identify potential geometric or traffic control deficiencies, collection and analysis of crash data, development of engineering countermeasures for improvement, benefit/cost assessment for prioritization, and before/after analysis for tracking purposes
- **Traffic modeling |** PTV VISSIM or TransModeler micro-simulation software, and HCS or Synchro macroscopic analysis and optimization software

# **Civil plans, specifications, and estimates**

Wilson & Company has extensive experience with the design of urban and rural roadways, from local streets to major interstates. We have engaged in the full roadway design process, from determining the initial roadway alignment, through construction, and project close-out. Our team has prepared many design plans for projects throughout the City that included horizontal and vertical layouts, land development, drainage improvements, roadway reconfiguration for capacity and safety, ADA pedestrian improvements, signing and striping, as well as signalization at intersections, information technology systems, and lighting. Our vast experience in design makes us well-suited to perform any on-call service required by the City.

In conjunction with the preparation of plans, we are well-versed in preparing contract bid documents with our project plans. Simultaneous development of the project plans and contract book is essential to providing consistency between the plans and the contract documents. For effective implementation, Audra will assemble the documents required in the contract book. These will include the City of Albuquerque Boilerplate, supplemental special provisions, standard and project specific Notices to Contractors. Wilson & Company will have a draft contract book available at the 65% review meeting for the project team to review and provide input. The draft contract book will be further refined at the 95% milestone review and finalized for the 100% review.

# Hydrology and drainage

Our team has completed many drainage assessments, preliminary/final drainage reports, and drainage facility designs for the City. These include rural and urban studies and coordination with Albuquerque Metropolitan Arroyo Flood Control Authority (AMAFCA), Southern Sandoval County Arroyo Flood Control Authority, and other stakeholders across the city. Our staff is trained in the latest drainage software including HEC-1, HEC-HMS, AHYMO, HEC-RAS 2D, Culvert Master, Flow Master, SWMM, Flo2d, and Hydraflow. Wilson & Company also has the in-house expertise to provide National Pollutant and Discharge Elimination Systems services to the City. We have worked closely with City drainage employees on projects such as Iron Storm Drain, The Rail Yards, I-40 Channel, and Edith Transfer Station.



Drainage subject matter experts in New Mexico



**Delivering value** 

Transportation and traffic subject matter experts in New Mexico We kept close coordination with City staff throughout the design process to confirm all drainage issues and needs were met in the early design stages. Creating close and collaborative working relationships with City staff minimized project issues and assisted in consistently meeting our deadlines.

# Structural analysis and design

Wilson & Company's team provides analysis and design of roadway and railway structures and foundations; analysis of existing structures for capacity and conditions; bridge life cycle cost analysis; design of retrofit and repair measures; investigations; site visits; bridge load testing and load ratings; field reviews; damage assessments; and plan/ computation/specification reviews. Our structural team performs evaluations and designs that use accelerated bridge construction techniques, including GRS-IBS abutments, precast deck panels, precast substructure elements, and roll-in type construction involving self-propelled modular transporters. We are experienced in design of walls, culverts, foundations, and other structures.

# **Mechanical and electrical engineering**

Wilson & Company provides on-call MEP services for the Sandia National Labs IDIQ. Within this contract, our team performs project management, fire protection, plumbing, mechanical, controls, electrical power, lighting, telecommunications, security, and construction support for many facility upgrade projects at Sandia National Labs, offices, and test facilities. Our MEP group assists in energy analysis, lighting analysis, electrical services calculations and analysis, programming of customer requirements, and construction administration, construction phasing for complex construction sequences on equipment that must maintain power, oil transfer equipment, office upgrades, restroom upgrades, and many other suite and facility new building projects.

# **Construction management support and testing**

Our in-house team has the expertise to provide engineering and technical support services during construction as required by the City. Our construction personnel can assist with material testing and tracking of tests during construction. Wilson & Company has previously provided construction support services to the City and other municipal clients on various projects, including rural and urban corridors, intersections, and interchange designs. Our engineering staff will provide design support consisting of clarifications, responses to RFIs, traffic control issues, reviews of proposals, change orders, etc. We will assign a construction project manager and the appropriate inspection staff to handle any project. Our team has the experience to complete the project from planning through construction close-out and has provided construction staff augmentation. We have successfully supported construction in this way throughout the state and will assist in any way possible.

# Survey

Many of our survey staff have lived and practiced in New Mexico for most of their lives. We are familiar with the terrain, climate, topography, geography, geodetic control systems, public land system, State Plane Coordinate System, statutes, laws, and regulations. Our fully-equipped survey crews are outfitted with the latest technology to handle all terrain and weather conditions.

#### **Delivering value**

Wilson & Company's local team holds the Sandia National Laboratory IDIQ, which includes civil, mechanical, electrical, and architectural services. We are knowledgeable of on-calls with multidisciplinary tasks and provide these disciplines in-house.

#### **Delivering value**

Our inspectors are familiar with City construction management procedures as many of them are retired City/NMDOT construction personnel.



Fully equipped survey crews in New Mexico

Local survey teams have specialized experience and technical competence in a wide range of surveying and related services including boundary/cadastral surveys, ROW and topographic surveys, alignment/utility location surveys, terrestrial lidar surveys, horizontal and vertical site control analysis, cross section and profile surveys, legal boundary and plan and profile surveys, bathymetric and hydrographic surveys, geodetic network control surveys, construction layout and staking, rapid response emergency surveys, photogrammetric mapping control and aerial mapping, American Land Title, and GPS surveys, digital terrain modeling, and subdivision plats.

# V. Cost control

# **Cost control and cost estimating techniques**

**Cost control of the design process** | Cost control must be a prime project objective from beginning through completion. The most important factors in achieving this are time management and clear communication among members of the design team. Since project delay is the most frequent case for cost overruns, Wilson & Company will carefully manage schedules and costs at our weekly staff meetings. We will listen to the City's needs and concerns, creating scope documents that provide the framework for a sound, thorough, and comprehensive project.

**Cost control of the construction process** | Project construction cost control can be attributed to good estimating practices and direct experience in the management of construction projects. Wilson & Company has this expertise and will provide a project manager with broad experience, a comprehensive understanding of City procedures and requirement, a rich background in the local and regional construction cost market, and the ability to keep the lines of communication open with the City at all times to determine what best fits the needs of the project, while balancing the available funding and budget.

When it appears the project budget will be exceeded, the City's project manager is immediately contacted to discuss alternatives such as deducting items of work, phasing the project, or providing a cost-benefit comparison analysis of lower-cost methods or equipment.

**Cost estimating techniques** | The City wants reliable cost estimates throughout the design phase and engineers' estimates that are realistic and competitive with the final bid. We will produce a clear set of construction documents so construction bidders know what is expected and can prepare a bid containing a minimum of contingency costs.

# Comparisons of bid award amount to final cost estimate

Project name	Middle Rio Grande Conservancy District New Belen/Peralta Main Project	City of Gallup Coal Ave Phase II	City of Grants 2nd Street Phase II	Albuquerque Metropolitan Arroyo Flood Control Authority (AMAFCA) Valle del Oro Swale	AMAFCA Black Mesa Phase V
Bid date	October 5, 2021	March 15, 2022	April 1, 2021	June 15, 2021	June 23, 2020
Number of bids	2	1	3	3	3
Final cost estimate	\$1,238,835.00	\$3,196,805.48	\$1,080,880.00	\$5,164,810.00	\$3,367,765.00
Bid award	\$1,697,823.00	\$3,308.327.33	\$987,885.00	\$4,102,131.72	\$2,773,885.00

# Appendix A | Pay equity worksheet

# Pay Equity Reporting Form



City of Albuquerque



Bernalillo County Www.bernco.gov



Water Authority www.abcwua.org

#### **Company Details**

Company Name		any Name Wilson & Company		Mailing Address		4401 Masthead St. NE, Suite 150 Albuquerque, NM 87109					
Pho	ne	505-348-4124									
Ema	ail Address	Amy.Straquadine@wilsonco.com		NM E	NM Employees?		yes				
Job	Category				No. Femal	es	No. Males	Gap (Abs. %)			
1.1	Exec/Senior L	_evel Officials/Mgrs			0		7	N/A			
1.2	First/Mid Leve	el Officials/Mgrs		8			5	11.68%			
2	Professionals			24		51	7.03%				
3	Technicians			1		28		3.00%			
4	Sales Worker	'S		0		0		N/A			
5	Office and Ad	lmin. Support		15		10		1.23%			
6	Craft Workers (Skilled)				0		0	N/A			
7	Operatives (Semi-Skilled)				0		7	N/A			
8	Laborers (Unskilled)				0		4	N/A			
9	Service Work	ers			0		0	N/A			
	Overall Total				48		112	5.61%			

Total # of Females (all categories)	48	Total # of Males (all categories)	112
Total # Female Only Job Categories	0	Total # Male Only Job Categories	3
Total # Part Time Females	7	Total # Part Time Males	23
Female % Workforce	30.00%	Male % of Workforce	70.00%
Total # Employees	160	Total # Non-Binary Employees	0

**Must be signed by a representative of the company.** Signature certifies that all employees working in New Mexico are included, the data is for one year ending when the form is signed, and any challenges to your information may require you to get third party verification at your own expense.

Amy Straquadine

Mar 28, 2022

Name and Title

Signature

Date Submitted

All Pay Equity Reporting Forms are reviewed by the Gender Pay Equity Initiative within two business days of submission. A copy of the reviewed form will be emailed to you for inclusion with your bid or proposal. If the Overall Total Pay Gap on your form is 0%, the Gender Pay Equity Initiative will certify your Pay Equity Reporting Form. A Certified Pay Equity Reporting Form may allow you to obtain a 5% preference. Please keep in mind that a Pay Equity Reporting Form - whether certified or uncertified - must be submitted with all bids and proposals. Please contact the Gender Pay Equity Initiative with any questions: oei@cabq.gov or (505), 768-3512.

 $\checkmark$ 

Certified - Overall Gap is 0%

Amy E. Straguadine, Senior Human Resources Manager

Gender Pay Equity Representative

Uncertified - Overall Gap is more than 0% Company ID: 599

# Appendix B | Agreement and insurance certification form

City of Albuquerque Capital Implementation Program

# **Agreement and Insurance Certification**

We have reviewed the standard agreement for Engineering orArchitectural or Landscape Architectural Services that are required for the project listed below, and hereby certify that we will, if selected for the project, enter into this standard agreement for this project and meet all insurance requirements listed therein.

This Certification is intended for the use of the City of Albuquerque only, in conjunction with the award of the Engineering or Architectural or Landscape Architectural Services Agreement for Project:

Project NameCity Wide On-Call Engineering Services
Project NumberProject No: 6098.93
Date Firm Name Wilson & Company, Inc., Engineers & Architects
Signature
Title
STATE OF NEW MEXICO )
) \$\$
COUNTY OF BERNALILLO)
The above Certification was subscribed before me, the undersigned authority, by: Edward 5. Cordova
who swore upon oath that this Certification was signed of free act and deed, on this

25 day of March	, 20 <u>ZZ</u>
All	
(Notary Public)	1 1 . (
My commision expires:	8/3/24



# Appendix C—General and professional liability insurance coverage certificates

AC	ORD	CER	TIF	ICATE OF LIAI	BILI		JRANC	E 6/1/2022	TE (MM/DD/YYYY)
THIS CERT BELC REPR IMPO If SUI	THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER. IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on								
this c PRODUCE	ertificate does not conf R Lockton Companies 444 W. 47th Street, St	er rights to the	cert	ificate holder in lieu of su	CONTA NAME: PHONE (A/C, No	dorsement(s CT o, Ext):	).	FAX (A/C, No):	
	Kansas City MO 641 (816) 960-9000	12-1906				ss: INS	URER(S) AFFOR	RDING COVERAGE	NAIC #
insured 4011	WILSON & CO., IN ENGINEERS & ARC 4401 MASTHEAD S	C. CHITECTS TREET NE, SU	ЛТЕ	150	INSURE	R B : Hartford	1 Insurance	Co of the Southeast	38261
	ALBUQUERQUE N	M 87109	- A T E	NUMBED: 1402404		:R E : :R F :			
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# **CERTIFICATE OF LIABILITY INSURANCE**

DATE (MM/DD/YYYY) 5/26/2021

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4401 Masthead Street NE, Suite 150 Albuquerque, NM 87109 505 348 4000 (phone) 505 348 4055 (fax) wilsonco.com



# Proposal for City of Albuquerque

# City Wide On-Call Engineering Services





Project No: 6098.93 April 1, 2022 | 3:00PM



Solutions for Today... Vision for Tomorrow

April 1, 2022

City of Albuquerque Capital Implementation Program Selection Advisory Committee One Civic Plaza, Room 7057 Albuquerque, New Mexico 87102

#### RE: City Wide On-Call Engineering Services - Project No: 6098.93

Dear Members of the Selection Advisory Committee:

Smith Engineering Company (Smith) appreciates this opportunity to submit our proposal for professional engineering services for the referenced projects. We have assembled a team with distinctive civil and structural engineering experience to match the scope of work. As the Project Manager, my experience combined with the other Smith Project Engineers result in many decades of engineering experience for projects located in the City of Albuquerque (COA) and other communities such as the Albuquerque Metropolitan Arroyo Flood Control Authority (AMAFCA), the New Mexico Department of Transportation (NMDOT), Albuquerque Bernalillo County Water Utility Authority (ABCWUA), Southern Sandoval County Arroyo Flood Control Authority (SSCAFCA), Doña Ana County, and the City of Las Cruces.

We are pleased to submit our proposal in response to your request. This proposal illustrates our technical abilities, and our commitment to continue working with the City of Albuquerque. The Smith project team is passionate about civil engineering, and as residents of Albuquerque, has a genuine interest in improving our city. We look forward to your response at the completion of your proposal review process.

Sincerely Yours,

Rebecca C Fink

Rebecca C. Fink President/CEO

**Smith Engineering Company** rebeccaf@smithengineering.pro





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# I. General Information

# 1: Introduction to Smith Engineering Company

Smith is a privately-owned, regional engineering consulting firm, specializing in civil and structural projects in both the private and public sector from our offices in Albuquerque, Las Cruces and Roswell, New Mexico. Established in 1989, Smith has built a regional reputation for quality engineering in the Southwest. The expertise of our engineers, technicians, and support personnel cover many disciplines of civil and structural engineering.

# Contact Info

2201 San Pedro Drive, NE Building 4, Suite 200 Albuquerque, New Mexico 87110 505-884-0700 | smithengineering.pro

Contact: Rebecca C. Fink, PE rebeccaf@smithengineering.pro



# **Firm Services**

- Construction Services
- Flood Control & Drainage Engineering
- Land & Site Development Engineering
- Materials Testing
- Structural Engineering
- Transportation Engineering
- Water & Wastewater Engineering

Every community has unique needs. To tackle a community's infrastructure challenges, Smith's engineering approach is to develop solutions that reflect their individuality. What sets us apart from the competition is the ability to listen to our clients' needs rather than telling them what to do. Smith values communication plans which keeps our clients well informed.

# 2: Number of Employees

Taking care of our employees has always been a priority. This is evident by being on the list of the *Albuquerque* 



Journal's Top Work Places for the past six years. This practice is consistently reflected in our quality of work.

Technical Discipline	Albuquerque	Las Cruces	Roswell	Total	NM PE Number
					14232 15792 19482 20287 20435
Civil Engineer	7	1	2	10	23566, 25766, 26343, 26361, 26788
Structural Engineer	1			1	24553
Engineer Associate	5			5	
Designer/CADD	3	3	1	7	
Field	5		1	6	
Field/Special Inspection			4	4	
Materials Testing			4	4	
Survey			2	2	
Administrative	2	1	2	5	
Project Specific Field	1			1	
Project Specific Engineer		1		1	6290
Total	24	6	16	16	

# 3: Where the Services are to be Performed

Smith will be performing the work from our Albuquerque office. Additionally, all our subconsultants will provide services from their Albuquerque offices with the exception of our proposed electrical consultant, DARcor and Associates, Inc. - located in Phoenix, AZ.



# **II. Project Team Members**

Smith's ability to successfully address the concerns outlined in this RFP will be accomplished by a specially selected team as shown in the following organization chart. This chart illustrates lines of authority and communication for our project team. Cody Sipes, PE, will be the project manager for this contract. He will be the primary point of contact for the City and will coordinate project tasks among the Smith team and subconsultants. He will also be in charge of preparing the construction contract documents and providing bid and construction phase services.



# 2: Subconsultants



DARcor and Associates, Inc.

7600 N 16th, Suite 212, Phoenix, AZ 85020 602-795-2699 | Contact: Darwin Reynolds, PE **Summary Description:** YeDoma Consultants, LLC. (YeDoma) is a New Mexico corporation established in 2017. YeDoma is headquartered in Albuquerque. Their staff offers in-house capabilities specializing in planning studies, transportation engineering (geotechnical design, civil roadway, site grading,) and quality assurance /construction management services. As YeDoma continues to grow and expand, they pride themselves in their ability to respond to clients' needs. YeDoma has been proudly consulting with the State of New Mexico, BIA, Navajo Nation, and Tribal and local governments since inception.

**Summary Description:** DARcor has consistently provided the best power and controls engineering for Smith's water, wastewater facilities. DARcor specializes in the design of power, instrumentation, control and SCADA systems for the water and flood control industry. Projects range in size from domestic water wells to large water and wastewater treatment facilities. DARcor has earned an excellent reputation and has proven track record for delivering high quality plans and specifications in a timely manner.



# **#**CobbFendley

# SUL and Survey: CobbFendley

6102 Jefferson NE, Suite B, Albuquerque, NM 87109 505-508-0786 | Contact: Sean Wolfe



Mechanical Engineering: Bridgers & Paxton

4600C Montgomery Blvd NE, Albuquerque, NM 87109 505-883-4111 | Contact: Richard Reif **Summary Description:** CobbFendley provides professional SUE and land surveying services is a top ranking firm that offers a range of integrated services that support value and qualitybased solutions for clients. CobbFendley has a presence throughout New Mexico, Texas, and Utah. Their project management approach emphasizes effective communication with a commitment to quality, integrity and engineering excellence. CobbFendley's portfolio includes fundamental and specialized services needed to complete complex and innovative infrastructure projects.

**Summary Description:** Utilizing the latest tools and processes, the Bridgers and Paxton (B&P) team works collaboratively with stakeholders to identify project requirements and create efficient, effective solutions. From mechanical infrastructure master planning to system restoration, the team will be assembled with the expertise and experience to address the County needs. B&P's electrical engineering group was established in 1995 and has experience and talent ranging from lighting to emergency power for 24/7 facilities.

# 3: Qualifications of Smith Team Members



**Education:** B.S. Civil Engineering, NMSU

### Cody Sipes, PE 19482, ASCE Member | Project Manager & Utility Engineering

Mr. Sipes has 17 years of experience in civil engineering and project management. This experience includes grading and drainage design, the design of pump stations and water treatment facilities, water transmission and distribution systems, wastewater collection systems, water storage facilities, water source development projects, road design, and planning reports. Project design responsibilities include hydrology calculations for runoff determinations, hydraulic design for water systems and sewer collection systems, corridor modeling for roadway improvements, HEC-RAS modeling for flood control structures, and AutoCAD Civil 3D grading for site development. He has completed over a dozen water system Preliminary Engineering Reports, technical memos, and drainage studies for communities throughout New Mexico. He

understands the requirements of the various funding agencies and their grant programs. He has worked with multiple regulatory agencies to ensure that projects are completed from their initial planning stages.



**Education:** M.S. in Civil Engineering Texas Tech

### Jared Lujan, PE 20435, ASCE Member | QA/QC

Mr. Lujan, with 14 years of experience, is one of Smith's lead civil project engineers. He has experience in hydrologic and hydraulic analysis, and the design and management of storm sewer, sanitary sewer, waterline design and rehabilitation, pumps, treatment facilities, and cost estimating projects. He has extensive experience in Construction Phase Services including time spent as a Resident Project Representative. Mr. Lujan has worked with communities in NM, AZ, and CO.





**Education:** B.S. Env. Engineering, NAU

### Kelli Berman, PE 25766, NMFMA Member | Civil & Drainage

Mrs. Berman has nine years of experience in civil engineering design and project management. She has prepared planning reports including Design Analysis Reports and Drainage Master Plans to assist communities throughout New Mexico to obtain funding and provide a basis for the project design. Kelli has completed multiple projects from design through construction, including utility, roadway, and stormwater infrastructure projects. She is familiar with hydrologic and hydraulic modeling using a variety of software and has assisted communities in delineating and establish floodplains, providing LOMR assistance as needed. During construction, Kelli has assisted clients by responding to contractors RFIs, review of shop submittals and requests for pay applications, conducting project status meetings, providing record drawings and closeout

documents. Additional experience includes coordination with state funding agencies, attendance at public meetings/ council meetings, conducting design deliverable reviews with regulatory agencies for compliance, and bidding and negotiation phase services to assist in executing construction contracts.



Education: B.S. Civil Engineering, UNM

### Nancy Peay, PE 26788, ACEC, AWWA Member | Civil & Drainage

Mrs. Peay offers over six years of engineering experience in water, wastewater, and sewer system design, land development, construction phase services and system permitting with NMED and EPA. She has completed Asset Management Plans for Albuquerque Bernalillo County Water Utility Authority (ABCWUA) and has written several Preliminary Engineering Reports and Design Analysis Reports for municipalities and utility providers. She has completed design improvements for projects of all sizes including small collection systems for mutual domestics to large system improvements at municipal wastewater treatment plants. She provides construction administration, including review and approval of pay applications, responding to Requests for Information, review and approval of submittals, preparation of change orders

and field orders, and has construction observation experience. Mrs. Peay has completed funding applications for USDA-RD, NMFA, municipal and EPA, as well as, applications for NMED groundwater discharge and NPDES permits, as well as, system modification applications to NMED.



Education: B.S. Civil Engineering, UNM



**Education:** M.S. Structural Engineering, UNM

### Jesus Lopez, PE 26361, Civil and Drainage

Mr. Lopez has over six years of professional engineering experience and project management. He has performed site development consulting, design, and construction management for residential and commercial development as well as project management for public infrastructure improvements projects. This entails performing grading and drainage design, hydrologic and hydraulic modeling, utility and roadway improvements design, site conditions reports, watershed modeling, subsurface runoff mitigation research and design, drainage master plans, area mapping, cost estimation, bridge scour analyses, and construction administration.

# Caitlin Purigraski, PE 24553, ACEC, ASCE, NMSPE Member Structural Engineering

Mrs. Purigraski has ten years of experience in structural design and analysis of reinforced concrete, prestressed concrete, masonry, aluminum, cold-form steel, and wood. Her background includes finite element analysis and modeling, parametric modeling, using STAAD Pro, Revit, and AutoCAD. She has working code knowledge of ASCE 7, ACI 318, PCI, AISC, AISI cold-formed steel, ADM, NDS, and IBC. Before joining Smith, Mrs. Purigraski was a product development engineer at a solar racking manufacturer where she worked on component enhancements and the creation of a new product line. She oversaw the creation of fabrication

drawings, coordinated with vendors, designed components to applicable standards, created test plans, ran tests, and created test reports. She built software applications that took preliminary site/product information to completion.





### James MacCornack | Construction Services

Mr. MacCornack has over 30 years of experience in the preparation of engineering drawings and construction observation. He has worked on a variety of projects, including drainage, roadway, water system, and structural projects. He was also the superintendent of two building addition projects. Mr. MacCornack's design and construction experience provides him with the insight to quickly resolve issues in the field which makes him the ideal choice to bridge the gap between design and construction on projects. He completed fieldwork, drawing preparation, construction observation and drawing constructability reviews. He is also proficient in AutoCAD and MicroStation.

# 4: Unique Knowledge of Key Team Members

The following page outlines unique, relevant experience and skills of the proposed key team members for this contract.

### Cody Sipes, PE

**Unique Knowledge -** Mr. Sipes has 17 years of experience providing consultant engineering services to municipalities throughout the State of New Mexico. He is the Engineer of Record on street and drainage projects for the City of Socorro including the Fairgrounds Detention Pond, Highlands Detention Pond, Cuba Road Area Street and Drainage Improvements, and A Street, B Street and Park Street roadway and drainage improvements. These projects combined provided over 40 acre-feet of storm water detention, several thousand feet of roadway and storm drain improvements, and concrete lined channels with capacities that exceed 250 cfs. He is currently the project manager for the City of Albuquerque Marble-Arno Storm Water Pump Station and Pond project.

**Relevant Experience and Skills Include:** Mr. Sipes has utilized several software programs to complete hydrologic and hydraulic modeling, and is proficient in Autodesk Civil 3D for roadway, drainage and utility design.

### Kelli Berman, PE

**Unique Knowledge** - Mrs. Berman specializes in the field of hydrology and hydraulics. She has developed numerous complex numerical hydrologic and hydraulic models in Albuquerque and throughout the state of NM. She will provide the City with the cutting-edge H&H tools such as dynamic wave hydraulic numerical models to simulate storm drains in the flat downtown and valley areas, 2D surface water modeling to map complex surface flow conditions and floodplains, and geospatial analysis required for constructing hydrologic models.

### Nancy Peay, PE

**Unique Knowledge** - Mrs. Peay has previously worked on COA projects including the evaluation of existing watershed conditions, existing storm drain capacities and identifying system deficiencies with final improvement recommendations. She has delineated rural and urban floodplains and has completed HEC-HMS hydrologic analysis for both the COA and Southern Sandoval County Flood Control Authority. Mrs. Peay is assisting with construction phase services for the City's Marble Arno Storm Pump Station and Pond project.

Other on-call services such as funding application assistance, permitting, or assistance with record documentation and database entry can be provided by our team. We have extensive knowledge of funding program requirements and have successfully secured funding for our clients. Smith can support the City with presentations, documentation, and budgets when necessary. Nearly all of the utility, transportation, water, and wastewater treatment projects we design receive some form of outside funding, and communication with the funding agency is essential. By communicating early and often, the concerns and advice of the funding administrator in charge of the project are known. If funding administrators understand that their concerns are being addressed and their opinions valued, they will often act as a proponent of the project helping the project team cut through "red tape." We have worked hard over the years to earn a good professional reputation with agencies that fund projects in New Mexico.



# **III. Respondent Experience**

Smith has completed many drainage and transportation projects for the City of Albuquerque over the past two decades. The Smith team has over 80 years of combined drainage experience. In the following sections, we demonstrate our breadth of experience with projects of a similar nature in the Albuquerque area, and project experience as it relates to the criteria described in the request for proposals. Narratives for five of these selected projects are also provided, which includes information specified in the Requirements for Acceptance of Proposals.

# 1: Previous Projects of a Similar Nature

# SSCAFCA -Lomitas Negras Phase II

**Key Team Members:** Kelli Berman, Cody Sipes, Caitlin Purigraski

<u>Client Contact</u>: Mr. Dave Gatterman, SSCAFCA, 505-892-5266, dgatterman@sscafca.com

Source of Project Funding: Federal- FEMA

<u>Scope of Services/Work Completed</u>: Stormwater Handling and Facilities, Cost Estimating, Const. Services

Years Services Provided: 2015-2019

Cost: \$4.4 Million (Design and Const.)



Smith Engineering Company prepared the analyses, design, and construction plans as a consultant to the Southern Sandoval County Arroyo Flood Control Authority (SSCAFCA) for the Lomitas Negras Phase II project located in Rio Rancho, New Mexico. This project included the Saratoga Detention Pond located along the Lomitas Negras Arroyo, and soil cement channel stabilization improvements for the Lomitas Negras Arroyo and the North Tributary Arroyo. Smith developed a hydrograph flow divide rating curve to simulate splitting the hydrograph at the wall/lateral weir through iterations with the water surface profiles model. The model simulated the 100-year and 500-year, 24-hour storms. The lateral weir was designed to allow a predetermined amount of storm water past the detention facility, while diverting the excess into the facility, and routing the outlet flows and bypass flows through an existing culvert crossing under Saratoga Road. This project included several hydraulic design concepts and combined them into engineering models to determine the routed storm water flows. It combined multiple disciplines of engineering theory and concepts and applied them to the construction of a facility. The facility was developed to reduce the potential of the surrounding community and the Enchanted Hills Elementary School from flooding. The project is visible within the City of Rio Rancho.



# City of Albuquerque -Marble-Arno Storm Pump Station and Pond

**Key Team Members:** Cody Sipes, Kelli Berman Caitlin Purigraski, Nancy Peay

<u>Client Contact</u>: Shellie Eaton, City of Albuquerque, 505-768-3229 <u>Source of Project Funding</u>: Local <u>Scope of Services/Work Completed</u>: Hydraulic Analysis, Design,

<u>Scope of Services/Work Completed</u>: Hydraulic Analysis, Design, Cost Estimating, Construction Services <u>Years Services Provided</u>: 2018-2020

Cost: \$17,182,395.80 (Design and Const.)



Smith provided engineering services for design of storm drain improvements including a detention pond near the intersection of Broadway Blvd. and Lomas Blvd. Initially, this project was projected to cost approximately \$26 million, and would require a phased approach to the improvements. Smith completed the design analysis report to optimize the pond size, pump station configuration and determine the available power sources. Smith's understanding of hydrology and hydraulic analysis of the EPA SWMM model allowed the team to discover several redundant and conservative assumptions made in previous reports that over predicted runoff discharge rates. Smith completed a revised SWMM model in conjunction with a 2D RAS model to further refine runoff flow rates to the area. Subsequent discussions with the City and AMAFCA led to the conclusion that the design parameters could be reduced which led to the design of smaller diameter storm drains. More importantly, the size and scale of the pump station was scaled down to the point where the COA can now afford the project as a single phase. The final design for the project included the construction of a new storm water pump station and detention pond to replace the existing North Broadway Storm Water Pump Station. The project improvements include construction of a 100 cfs pump station, a 19 ac-ft detention pond, a mechanically cleaned bar screen, concrete wet-well and valve vault, and an 800 square foot electrical building. Other improvements include the installation of approximately 550 linear feet of 54inch steel forcemain, approximately 2,000 linear feet of large diameter storm drain, roadway reconstruction of portions of Broadway Blvd., Marble Ave., and Arno St. complete with concrete facades and landscaping, and other work to provide a complete and functioning storm water pump station.

# City of Rio Rancho -Pecos Loop Drainage Improvements

Key Team Members: Kelli Berman, Cody Sipes

<u>Client Contact</u>: Bill Ladd, City of Rio Rancho, 505-891-5010, bladd@rrnm.gov

Source of Project Funding: Capital Outlay

Scope of Services/Work Completed: Drainage, Roadway Improvements, Cost Estimating Years Services Provided: 2020-2021 Cost: \$59,117.00 (Design)

Smith prepared the design and construction plans for culvert and roadway improvements to replace a roadway dip section that conveyed arroyo flows across Pecos Loop. The project design was difficult due to existing residential development and associated constraints to avoid construction issues with adjacent private property, and also issues with the sag vertical curve design criteria, and a 56 degree culvert skew. To force the invert of the sag curve at the correct location, the roadway invert was lowered about 30 inches. Lowering the arroyo bed required the design of an upstream reinforced concrete grade control structure in the arroyo bed to control head cut generation.



# City of Albuquerque & Cherry/ See/Reames Architects, PC -Singing Arrow Community Center

Key Team Members: Caitlin Purgraski

<u>Client Contact</u>: Tina Reames, Principal, 505-842-1278 <u>Source of Project Funding</u>: Capital Outlay <u>Scope of Services/Work Completed</u>: Structural Design, Cost Estimating <u>Years Services Provided</u>: 2021

**<u>Cost</u>**: \$5.6 Million (Design and Const.)



Smith worked with Cherry/See/Reames Architects, PC to design and construct the new 15,000 sf Singing Arrow Community Center located in the Singing Arrow neighborhood of Albuquerque, NM. Our team provided services for structural design, preparation of construction drawings and specifications for the \$5.6 million dollar project. The new center provides a fitness center, classrooms, and group meeting spaces. Focal points of the interior include exposed roof framework, a full-height concrete feature wall, and lit display areas inset in the corridor floor.

# Town of Edgewood -Wastewater Collection System Expansion Phase I

Key Team Members: Cody Sipes, Nancy Peay, Kelli Berman <u>Client Contact</u>: Juan Torres, 505-286-4518, jtorres@edgewood-nm.gov

Source of Project Funding: Local

Scope of Services/Work Completed: Wastewater Collection, Cost Estimating, Construction Services

Years Services Provided: 2017-2020 Cost: \$562,821.88 (Design and Const.)



The Town of Edgewood hired Smith to design and assist with construction phase services for the expansion of their existing wastewater collection system. The expansion consisted of adding 2,000-linear feet of 8-inch gravity sewer line, a duplex submersible lift station, HDPE forcemain, and new sewer service lines to connect existing commercial and residential properties to the centralized collection system. Due to the topography of the area where the expansion was constructed, a lift station was needed to transfer the new sanitary flow to the existing collection lines and eventually to the existing Town of Edgewood wastewater reclamation facility.



### Smith Engineering's Experience with On-Call Contracts in New Mexico



# 2: Project Manager's City Experience

Mr. Sipes was the project manager for the Marble-Arno Storm Pump Station and Pond project (COA #5958.92). The project has been on-going for several years, and is to be finished with construction in 2022. Mr. Sipes worked closely with the COA on this project to provide a cost effective solutions and kept close coordination with the COA's procurement department, DMD, DRC, and their traffic and construction engineers. In addition, Mr. Sipes assisted the COA with coordinating with neighboring land owners, electrical, water, sewer, gas, and telecommunication utility owners, and AMAFCA. Mr. Sipes has also worked with the ABCWUA to complete several utility projects within COA which required coordination with the COA and approval by DRC. Smith Engineering currently has several on-call contracts with the COA, and Mr. Sipes has assisted the Smith project managers with tasks associated with these COA projects. He is familiar with the COA's procurement process, the COA's DPM, landscape ordinance, noise ordinance, moratoriums and other COA regulations and policies.



# **IV. Technical Approach**

On-call engineering projects generally, but not always, consist of small design tasks requiring a fast response time. Smith's proposed Project Team will be available for each task assigned for this contract. By having a dedicated team, we can guarantee continuity and create documents that meet the COA criteria quickly and efficiently.

# 1: Understanding What the City is Requesting

### Study Phase Services

- Roadway Evaluations
- Background Data Collection
- As-Built Review
- Drainage Evaluations
- Hydraulic/Hydrologic Analyses
- Floodplain Delineation and Mapping
- Review of site conditions/drainage reports
- Traffic Analysis
- Signal Warrant Analyses
- Public Meetings

### **Design Phase Services**

- Roadway Design
- Bicycle Facility Implementation, Complete Streets Design, PROWAG Implementation
- Storm Drain Design
- Storm Pipe Network Design, LID implementation, Surface Flow Conveyance
- Traffic Design
- Traffic Signal Design, Corridor Timing Development, ITS, Vehicle/Bicycle Detection
- DRC Submittals, NMDOT PS&E Submittals
- Public Meetings

### Federal Funding / Certifications

- Environmental Investigations, Cultural Studies, Utility Certification, Railroad Certification, ROW Certification, Intelligent Transportation System Certification
- Accounts Payable assistance, NMDOT reimbursements

# Bidding and Construction Phase Services

- Plans Set Creation
- Knowledge and implementation of City, State, and National Standard Specifications
- Estimates
- Construction Contract Documents (City and Federal)
- Construction Meetings
- Construction Management, B2GNow and LCP Tracker, Daily Construction Logs
- RFI Review
- Record Drawing Creation



DEGREE OF URGENCY

The On-Call Projects Spectrum figure includes four quadrants that summarize the differing nature of various On-Call Projects. Some projects are the product of carefully planned facility improvements, and involve unit processes or upgrades that we can implement on a scheduled basis, as shown in Quadrants 1 and 3. Conversely, other projects result from equipment or facility failures, and we often characterize them as emergencies or imminent threats. These projects require a different design approach, and a more intense level of communication and support. Quadrants 2 and 4 illustrate this.

In addition to the urgency of a given project, there are also varying degrees of technical expertise and risk that are required. For example, we consider the design of a road intersection a relatively straightforward process, a "known entity", and we could represent it in either Quadrant 1 or Quadrant 2. Alternatively, a particular traffic safety problem may not have an off-the-shelf solution, but instead requires a more creative thought process that includes brainstorming and collaboration with industry experts, vendors, contractors, engineers, and operators. Quadrant 3 or Quadrant 4 represents these "custom" solutions.



### Quadrant 1 (Non-Urgent / Known)

Our work process for every project, including all projects described in the scope of work, consists of the following items:

- Conduct a kick-off meeting where the project team will meet to discuss scope, schedule, budget and the approach to the project. We also define the City's expectations that determine the success of the project.
- Team meetings: These will occur throughout the project to assess project progress, identify upcoming deliverables, identify problems, and develop solutions to overcome the obstacles to completion of the project.
- Prepare the work plan: This effort results in the work plan that defines the project specifics related to team members, deliverables, schedule, and budget.
- Design: This is the process of producing the technical deliverables and will include meetings with team members and client representatives to obtain input to the project for technical issues.

- Progress meetings: These will occur throughout the project at regular intervals or more frequently as required. These meetings allow the team to know the status of the project and to discuss issues such as schedule, budget and technical items.
- Final design package delivery: This includes delivery of the final design product to the City including plans, specifications, cost estimates, SWPPPs and other design items for the bidding process.
- Bidding and Construction Services: If requested, our team will provide bidding and construction services at the level requested by the City ranging from minimal involvement to full construction services.

### Quadrant 3 (Non-Urgent / Innovative)

For projects that require a higher degree of initial design, innovation, and creative input (Quadrant 3), the Smith Team would prepare (in addition to the items for Quadrant 1) a Feasibility Study/Technical Evaluation prior to producing a 30% design. This Feasibility Study/Technical Evaluation would provide detailed evaluation of multiple technology options that may be applicable for a given design project. Using input and feedback from the City, and a detailed evaluation of advantages and disadvantages, we will provide a design solution.

### Quadrants 2 and 4 (Urgent Projects)

For urgent or emergency on-call projects that fall within Quadrant 2 or 4 a very different technical approach is required. For these projects, the Smith Team will use the following approach:

- 1. Immediate Meeting This initial meeting will communicate the critical needs, challenges, and expectations. On the same day, Smith will deliver a loosely defined project scope and design direction to the City. The required project deliverables will be determined (reports, drawings, calculations, etc.), and a fast-track project schedule will be defined.
- 2. Design Meeting This meeting, which may take place at the site, will include sharing of additional project information, costs, and schedule updates.
- 3. Design Deliverables To save time, report deliverables will be prepared in a Technical Memorandum format. We will provide Preliminary Design plans (80%) and Specifications in a standard format for immediate bidding or in an abbreviated format for use by the City emergency contractors.
- 4. Construction Oversight Services The Smith Team has field engineers and technicians available to perform construction oversight throughout the construction time frame. This service is important for emergency projects. We are local and provide these services with proficiency.



### **Quality Control Procedures**

Mr. Lujan will apply the following Quality Control Procedures to assure accuracy and adequacy of each work product (computations, analyses, models, reports and plans).

- Communication is most important. Mr. Lujan will regularly coordinate with Mr. Sipes (Project Manager) to ensure that constant, clear, well documented communication continues throughout the project (meeting minutes, emails, plan set reviews with team members and the COA).
- For each task within each project, review data/references, calculations, analyses and design models prior to team members writing reports or preparing plans.
- Each review will be documented with Smith Checklists, dated and signed by Mr. Lujan.
- Weekly Design/Plan Set review meetings Mr. Lujan will promote weekly team meetings to ensure all team members are on track in the correct analysis and design direction. Mr. Lujan will review all subconsultant submittals to resolve with the subconsultant any questions or issues prior to adoption of their results or recommendations.

Smith has developed and follows a Quality Assurance Program. Maintaining quality is how we meet our vision. Quality assurance is not just project specific- it is companywide. We follow a graded approach regarding the controls that we apply to project activities consistent with their importance to health and safety, environmental protection, client mission, life-cycle stage, Smith's mission, cost, and schedule. We have quality procedures in our company management, roles and responsibilities, personnel training, continuous improvement, and documents and records. Our project processes, design, procurement, inspection and testing also all have quality components. Lastly, we continually assess our quality internally and independently. We can provide our Assurance Program document to the City if requested.

### **Benefits of Choosing Smith Engineering**

Smith has experience. Smith has the talent and familiarity with the City to perform the services. More importantly, Smith knows how to manage projects, limit setbacks, and carefully communicate with our clients. That's what sets us apart from the competition. Fulfilling our mission, "Solutions for Today, Vision for Tomorrow," we engineer for the future while maintaining a budget. Our long list of quality clients have been pleased with Smith's efforts and we have been privileged with repeat work.

### **Communication and Public Involvement**

Smith personnel have extensive experience in including the community and appropriate stakeholders in the projects that impact their City. In a City the size of Albuquerque, it is very critical to include the citizens input and keep project updates transparent to avoid miscommunication and project headaches. Examples are the NMDOT NM 273 (Sunland Park), NM 26 (Hatch) roadway improvements where Smith conducted numerous public meetings and several face-to-face interviews of home and businesses owners. Law enforcement and the fire marshall were also interviewed to gain their insight. The public's input was incorporated into the project design and solutions were integrated that otherwise wouldn't have been a part of the design such as curb returns, driveway size, Right-of-Way issues, and street lighting.

### **Specialized Problem Solving**

We have the experience combined with expertise to develop specialized/detailed/complex hydrologic and hydraulic models. Examples include the Mid-Valley DMP (dynamic very large SWMM models) and the Dona Ana DMP (HEC-RAS 2D surface water models). Smith won an ACEC award for this project. We have specialized traffic related experience that is demonstrated by the following projects. We designed "flat angle parking" (22.5 degrees) on Main Street in Artesia as a compromise to parallel parking required by the NMDOT and regular angle parking desired by the local businesses. On an Artesia roundabout project, we provided median parking to increase the on-street parking in the downtown area.

# Familiarity with the City of Albuquerque and other Standard Guidelines

The Smith team has followed the Standard Guidelines in many past projects with the City of Albuquerque. Some that we predict may be required for this contract are:

- COA Standard Specifications and Drawings
- Public Right-of-Way Accessibility Guidelines
- MUTCD
- nes AASHTO
  - ADA (PROWAG)
- Highway Capacity Manual | NACTO
- NMDOT Standards
  - COA DRC



COA DPM

# V. Cost Control

# 1. Cost Control and Cost Estimating Techniques

# Cost Control of the Design Process



Smith keeps the project budget paramount when identifying and selecting best-fit engineering solutions.

Our "Vision" accounting software will be utilized weekly to review our costs to date (labor, subconsultants and direct), and to ensure our expenses are correlating with the contract scope and fee at each milestone.

Corrective Actions – If the design budget is exceeded, Mr. Sipes will determine if Smith has exceeded the estimated scope effort and should therefore absorb the overrun, or determine if the COA has revised the scope which caused the overrun. In the latter case, he will inform and coordinate with the COA Project Manager. If a lower fee is expended than contracted, Mr. Sipes will discuss and coordinate with COA to consider additional design features or design refinements that may be added to the project scope.

We will begin each task with a scoping meeting. Once work begins, we will take the following steps to control project design costs:

- Set up the project with short, periodic milestones. Check progress weekly against the milestones to make sure we are staying on schedule, on budget, and on task.
- Conduct site visits and attend regular team meetings during the design to refine our solution.
- Conduct quality assurance/quality control reviews at milestones to make sure our work is correct and that we are staying focused on the objectives.
- Attend meetings with the City's project representatives to clarify the project needs, as required.

# Construction Cost Control

We recognize the importance of establishing and designing within a construction budget. The procedures we follow to ensure a project will both be bid and built within the construction budget include:

- Provide an economical project design that complies with required standards.
- Complete a constructability review with construction managers during design.
- Prepare and provide accurate and complete quantity take-offs and construction cost estimates.
- Prepare engineer's estimate of probable cost (EOPC) at the 30%, 60% and 90% design and provide to the COA. If the EOPC exceeds the project budget, corrective action includes, design review and revision with the COA. If EOPC is less than the project budget, consider adding design features and/or amenities.
- Conduct site visits and investigate alternatives that might decrease construction costs.



# Cost Estimating Techniques



The project team will use the COA "Estimated Unit Prices for Contract Items" as a baseline for generating estimates for this contract. We will supplement this database with information obtained from the following to determine the most realistic cost of an item in the current local economic and bidding climate:

- Bid tabulations from recently bid projects of a similar nature.
- NMDOT and ABCWUA cost databases.
- RS Means.
- Telephone calls to suppliers
- COA Estimated Unit Prices.

# 2. Comparisons of Bid Award Amount to Final Cost Estimates

The following chart illustrates Smith Engineering's ability to meet project budgets. In all cases, we have performed the design within the client's budget even if the client requested additional work during the design phase. Smith's success is due to repeat business from our clients. The projects shown are for clients to whom we have provided services for years. They have been more than satisfied with our previous work and have chosen Smith for additional contracts since the publication of this table. This is a true measure of quality and client satisfaction.

Project Name	Bid Opening Date	No. of Bids	Final Cost Estimate	Bid Award Amount
City of Grants: Well #3 Rehabilitation	November, 2020	3	\$938,092.50	\$1,121,894.19
City of Albuquerque: Marble-Arno Storm Pump Station And Pond <sup>1</sup>	June, 2020	2	\$15,638,222.89	\$17,182,395.80
City of Artesia: 20th Street Reconstruction <sup>1</sup>	December, 2021	2	\$3,793,492.25	\$3,131,065.98
[1] Costs include NMGRT				

# Certifications

- Certificate of Liability Insurance
- Pay Equity Reporting Form





#### EHUGHES

DATE (MM/DD/YYYY)
9/14/2021

ACORD	CEF	RTI	FICATE OF LIA	ABILITY IN	SURAN	CE	DATE	(MM/DD/YYYY) 111/2021
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	-					PERSONAL & ADV INJURY	\$	4,000,000
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### Pay Equity Reporting Form PE10-249

Company name:	Smith Engineering Company
Mailing address line 1:	2201 San Pedro Drive NE
Mailing address line 2:	Building 4, Suite 200
City, state, zip code:	Albuquerque, NM 87110
Phone:	505-884-0700
E-mail address:	Accounting@smithengineering.pro
FEIN number:	85-0377824
EAN number:	339824
SHARE vendor number	0
Reporting calendar year:	2021

Job Category	No. Females	No. Males	Gap (Absolute %)
1 - Officers and Managers	5	11	18.50%
2 - Professionals	3	7	15.39%
3 - Technicians	0	21	N/A
4 - Sales Workers	0	0	N/A
5 - Office and Admin. Support	3	1	29.81%
6 - Craft Workers (Skilled)	0	0	N/A
7 - Operatives (Semi-Skilled)	0	0	N/A
8 - Laborers (Unskilled)	0	0	N/A
9 - Service Workers	0	0	N/A
Total # Job Categories With No Employees	5		
Total # Female Only Job Categories	0		
Total # Male Only Job Categories	1		
Total # Females (all categories)	11		
Total # Full Time Females	9		
Total # Part Time Females	2		
Total # Males (all categories)	40		
Total # Full Time Males	33		
Total # Part Time Males	7		
Total # Employees	51		
Female % Workforce	21.57%		
Male % Workforce	78.43%		

### Document must be signed by the principal executive of the company:

ITB #:\_\_\_\_\_\_RFP#\_\_ PO# \_\_\_\_\_ 1/15/2022 Rebecca C. Fink Rebecca C. Fink, CEO/President Name and title, printed Signature

Date





# CITY OF ALBUQUERQUE

City Wide On-Call Engineering Service April 1, 2022

Project No. 6098.93

www.bpce.com

INNOVATIVEDEPENDABLESOLUTIONS





April 1, 2022

City of Albuquerque, Dept. of Municipal Development 7th Floor, Room 7057 Albuquerque/Bernalillo County Government Center One Civic Plaza Albuquerque, NM 87102

### SUBJECT: COA, Engineering Consultants for City Wide On-Call Engineering Services

Dear Selection Committee,

Bridgers & Paxton Consulting Engineers (B&P) is pleased to present our qualifications for the City of Albuquerque (COA), Engineering Consultants for City Wide On-Call Engineering Services PROJECT NO. 6098.93.

**Team:** The B&P Team is committed to providing the City of Albuquerque the required experience, resources, and the desire necessary to successfully meet any task orders that may arise from the engineering on-call contract. Our team includes B&P (Prime) for mechanical, electrical, plumbing, technology design/engineering services and Bohannan Huston Inc. (Subconsultant) for civil and structural engineering and design services.

**Experience:** We have a wide range of On-Call experience, B&P is well aware of the complexity and variety of types of projects that can occur under On-Call work. We are accustomed to working on multiple projects simultaneously and can assign staff as necessary to meet the contract demands.

**Local:** B&P is a New Mexico Corporation headquartered in Albuquerque that has provided engineering services to our community for 70+ years. We have been involved in over 200 projects for the COA since 1953. B&P is fortunate to have provided engineering services for multiple on-call contracts for the COA.

**Communication:** I'm available at your convenience to answer any questions you might have regarding our qualifications and response to your solicitation. Contact me at 505-883-4111 or at <u>edconklin@bpce.com</u>.

Sincerely,

BRIDGERS & PAXTON CONSULTING ENGINEERS, INC.

Eric D. Conklin, PE Vice President

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### BRIDGERS&PAXTON

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### BRIDGERS&PAXTON

# **Section I General Information**

**Bridgers & Paxton Consulting Engineers Inc. (B&P)** is pleased to provide the City of Albuquerque (COA) with the following response to project # 6098.93 for City Wide On-Call Engineering Service. B&P offers the City a multidisciplinary team of the highest caliber. We are uniquely qualified to meet the management and experience requirements of this RFP.

Our team consists of some of New Mexico's most knowledgeable and experienced engineering firms: Bridgers & Paxton Consulting Engineers, Inc., and Bohannan Huston Inc. (BHI). The B&P/BHI Team has over 35 years of experience working together, including recent City BioPark, Community, Aquatic, and ABQ Ride projects.

Bridgers & Paxton is a full-service mechanical, electrical, plumbing, controls, technology and energy consulting engineering firm. Our firm was established in Albuquerque in 1951 and has been involved in over 200 projects for the COA since 1953. We will be the prime consultant for this engineering on-call services contract. B&P is fortunate to have provided engineering services for multiple on-call contracts for the COA.

### **B&P COA Experience Last 5 Years:**

- ABCWUA Customer Service & Operations Facility (2020)
- ABQ BioPark Aquarium River Otter Exhibit (2018)
- ABQ BioPark Architecture On-Call Contract (MEP Engineering Sub-consultant 2016 2019)
- ABQ BioPark Engineering On-Call Contract (MEP Engineering Sub-consultant 2020 2022)
- ABQ BioPark Zoo Asia Multi-Level Exhibits (Est. Construction Complete 2022)
- ABQ BioPark Zoo Australia Exhibit (Est. Construction Complete 2022)
- ABQ BioPark Zoo Elephant Barn Building (2018)
- ABQ BioPark Zoo Penguin Habitat (2019)
- ABQ International Sunport Customs/Border Protection Federal Inspection Station Study (2019)
- ABQ International Sunport Post Security (Airside) Terminal Improvements Study (2020)
- ABQ Ride Central & Unser Bus Transit Center Expansion (2019)
- Albuquerque Fire Department New Fire Station #9 (2020)
- APD. Real Time Crime Center (RTCC) Renovation at the RMTC (in design 2022)
- APD Foothills & Northeast Heights Areas Command Substations Facility Improvements (2018)
- APD Northwest Area Command Substations HVAC System Study (2019)
- APD NW Area Command Substation HVAC Systems Study (2021)
- Aviation Dept. Double Eagle II Airport Sgt. Andrew Tingwall Aviation Hangar Facility (2019)
- Central Bridge Underpass Pedestrian Tunnel Improvements (2020)
- Cibola Loop Multigenerational Center Design Development (Design 2021)
- City Hall Emergency Generator Feasibility Study & Electrical Systems (2019)
- City Wide On-Call Architectural Services (MEP Eng. Subconsultant for Contracts 2016 2022)
- Civic Plaza Renovation (2018) & Civic Plaza Lighting / Audio Visual Upgrades (2019)
- Gibson Medical Center Assessment (2021)
- Highland Senior Center Interior Renovation (design complete in 2021)
- Historical Rosenwald Building New Police Substation (2021)
- Joan Jones Community Center Addition at Atrisco Hills Phase II (2017)
- Kennel D (now Kennel Q) Renovation & Addition (2018)
- Marble Arno Pump Station (2022)
- New International District Library (2022)
- North Domingo Baca New Aquatic Center & Spray Pad (Design Complete 2021)
- Palo Duro Senior Fitness Center Addition (2020)
- Regional Transportation Management Center (2019)
- Singing Arrow Community Center (2021)
- Westside Shelter/Emergency Housing Center Warming Kitchen TI Engineering Services (Design Complete in 2022)

### **B&P FIRM FACTS**

70 Years in Business

Completed 200+ Projects for the COA

95 NM Employees

Technical Disciplines: Mechanical, Controls, Electrical, Plumbing, Technology Engineering & Sustainable Consulting

U.S. Green Building Council Member (2001)

Energy Star Partner (2010)

LEED: Completed over 121 LEED Projects (3 Platinum, 50 Gold, 66 Silver & 2 Certified Buildings)

NM Resident Business Certificate: #L1511424432 Exp.

12/18/2023







### **BRIDGERS&PAXTON** Name, Address and Telephone Number of Respondent:

- Bridgers & Paxton Consulting Engineers, Inc. | Prime & MEPT Engineers | Est. in 1951 | ABQ HQ 4600-C Montgomery Blvd. NE Abq, NM 87109 | (505) 883-4111
- Bohannan Huston | Civil/Structural Engineering Subconsultant | Est. in 1959 7500 Jefferson St. NE Albuquerque, NM 87109 | (505) 823-1000

### Number of Employees & Technical Disciplines:

Bridgers & Paxton		Bohannan Huston	
Discipline	#	Discipline	#
Electrical Engineers	9	Civil/Structural Engineers	58
Electrical Designers / EI / EITs	20	Civil/Structural Engineering Interns	19
Mechanical Engineers	20	Designers & CADD Technicians	42
Mechanical Designers / EI / EITs	16	Planners	5
Plumbing Designers	7	Professional Surveyors	4
Controls Engineer	1	Construction Inspectors	28
CADD Technicians	12	Support Staff	65
Construction Observers	5		
Technology Designers	7		
Administration	20		
Estimator	1		
BIM Coordinators	5		
Total	123	Total 221	

# Key Individuals Registration

Information: NM Electrical Engineer PE# 25342; NM Mechanical Engineer PE# 20132 & 15553; NM Civil Engineers PE # 14171; NM Structural Engineers PE # 17860; RCDD # 237189

Our Team has 85+ Registered Professional Engineers

Location Where Services are to be Performed: Services for this contract will be performed by B&P & BHI in their ABQ Metro offices to ensuring a quick response to any of the City's requests for meetings, pre-bid conferences and on-site services.



# BRIDGERS&PAXTON Section II Project Team Members

### **Organization Plan:**



**Identify Project Consultants:** Bohannan Huston Inc. will provide the civil, structural engineering services as well as any surveying needed for this project. Since 1987, our team has worked together on 1500+ projects.

Bohannan Huston, Inc., (Civil / Structural Engineering) Founded in 1959, Bohannan Huston, Inc., is a leading multidisciplinary engineering, spatial data, and advanced technologies firm serving the infrastructure needs of clients throughout the Southwest. Celebrating more than 62 years of successful service, BHI has grown into a nationally recognized service provider in the areas of planning, civil and structural engineering, water resources, utility engineering, traffic and transportation engineering, land surveying, GIS, and aerial mapping (photogrammetry and LiDAR). The firm has developed a staff of professionals, currently over 220 strong, within this diverse company structure that allows it to provide clients with a full range of integrated



services under one roof. The firm is dedicated to working with clients to visualize projects, optimize resources, and realize the best solutions. BHI strives to design projects that are sustainable and sensitive to their environmental context, while contributing lasting value to those in which they are designed. *BHI New Mexico Resident Business Certificate Number: L1058291376* 



BHI has provided professional services to the City of Albuquerque for more than four decades. The firm is a trusted service provider to the City and offers expertise, experience, specialized problem solving abilities, and depth of resources to meet the needs of City projects. BHI is committed to providing the City cost-effective services and works to control costs every step of the way, beginning with design. The firm's team members are highly knowledgeable and experienced in executing projects in accordance with the City's procedures.

BHI's six decades of success speaks to their ability to provide the City with 1) a wide range of services for varied task order requests; 2) responsive, dedicated staff who make your work a papagement on your time critical projects; and 4) guality final projects that most your pools.

priority; 3) effective task and schedule management on your time-critical projects; and 4) quality final projects that meet your needs.

### BHI COA On-Call Engineering Services Contract #7537.00 Task Orders in the Last 5 Years:

### I-25 Bicycle Accessibility Study

- University Bikeway Phase II Independent Assurance Construction Materials Testing
- Quaker Heights Fire Protection Bid Phase Services
- Zuni Road Improvements (Washington St. to Central)
- 2019 Albuquerque Bicycle Map Update
- 2020 Albuquerque Bicycle Map Update
- University Blvd. and Tijeras Arroyo Bridges Monitoring
- Media Advertising, Placement, Design and Production Services for Bike to Work Day 2019
- Storm Drain Analysis in the Area of 90th and Eucariz SW
- Matthew Ave. Topographic Mapping and ROW Determination
- West Central Median Landscaping Independent Assurance
   Construction Materials Testing
- Hendrix/Madeira Intersection Pedestrian Improvements
- Central at Lomas Median Modification
   Matthew Avenue Design
- Matthew Avenue Design

### BRIDGERS&PAXTON

### Team Engineering Services:

#### **Mechanical Engineering**

Central Energy Plant Design & Master Planning Containment Ventilation Systems Geothermal Systems Heat Recovery Heating, Ventilating & Air Conditioning (HVAC) Systems Humidification Control Indoor Air Quality Smoke Control Systems Solar Water Heating Systems Specialized Laboratory Systems Specialized Ventilating & Exhaust Systems Utility System Master Planning

### **Plumbing/Fire Protection**

Central Vacuum Systems Compressed Air Systems Domestic Water & Treatment systems Fire Suppression Systems Fuel Oil & Gasoline Systems High Purity Water Systems Natural Gas Systems Process Piping Sanitary Waste Systems Storm Drainage, Capture & Reuse Systems

### Instrumentation/Controls Engineering

Building Automation DCS, HMI, PLC & SCADA Enterprise System Master Planning Safety Instrumented Systems

### **Electrical Engineering**

Energy Audits & Energy Conservation Studies Fire Alarm Systems Grounding & Lightning Protection Systems High, Medium & Low Voltage Electrical Distribution Systems Lighting Design & Control Systems Lighting/Daylight Modeling Occupancy & Daylighting Controls Renewable Energy Sources (Photovoltaic, Wind Turbines, Cogeneration) Security Systems Short-circuit, Load Flow, Protective Device Coordination & Arc Flash Studies

### **Technology Consulting**

Assessment & Master Planning of ITS Infrastructure Audio-Visual Systems Distributed Notification Systems Information Transport Systems Physical Security Systems Substations Technology/Telecommunications Design Transmission & Distribution UPS, Emergency, Standby & Mission Critical Systems

### Sustainable | Energy Consulting:

Building Envelope Analysis & Optimization Cogeneration / Trigeneration Feasibility Studies & Design Daylighting Analysis Early Energy Design Assistance Energy Modeling Analysis Energy Rebates & Incentives Energy Star Benchmarking Geothermal System Analysis & Design LEED Consulting Services Life Cycle Cost Analyses Photovoltaic System Analysis & Design Micro-grid Analysis & Electrical Engineering

### Structural Engineering

Bridge Engineering Building Structural Analysis & Design Condition Assessments & Structural Inspections Seismic Site Analysis Structural Cost Analysis Structural Support for Building Equipment & Systems

### Surveying

Boundary Construction Staking Control (Horizontal/Vertical) Right-of-way & Easement Survey / Mapping / GIS Topography Utility

### **Civil Engineering**

Drainage Management Planning Flood Control Analysis & Design Governmental/Environmental Approvals & Compliance Grading & Drainage Analysis Infrastructure Analysis & Design Location Corridor Studies **Open Channel Structures Analysis & Design** Sanitary Sewer Line Design Site Planning & Feasibility Studies Streets & Highways Design **Traffic Control Plans** Traffic Studies & Engineering Transportation/Traffic Planning & Design Utility Spotting, Modeling & Analysis Wastewater Treatment Facility Analysis & Design Water Quality Mitigation Facility Analysis & Design Water Resources Water System Modeling

Waterline Design Watershed Mgmt. Planning









### **BRIDGERS&PAXTON**

Qualifications & Unique Knowledge of Project Team Members: A company's most important resource is its people. Our team's goal is always to staff our offices with highly gualified and motivated personnel. We are proud to say that our experienced, professional, and talented staff distinguishes us from our competition. Our team has over 340 employees in multiple disciplines. The following key individuals will be assigned to this project and will have direct involvement with task orders. Our team can provide the range of services, expertise, management and responsiveness needed to successfully support the City of Albuquerque.

### ERIC CONKLIN, PE | MECHANICAL ENGINEER, PRINCIPAL / PROJECT MANAGER | B&P

Education: BS, ME, University of NM; MS, ME, UNM | Registration: Professional Engineer NM #20132 & NC | Years of Experience: 15 Years (15 w/B&P) | Professional Organizations: ASHRAE (American Society of Heating, Refrigerating and Air Conditioning Engineers

City of Albuquerque Experience (Unique Knowledge | 20+ COA Projects | On-Call Contracts):

- ABQ BioPark Rio Grande Botanic Garden Rose Garden •
- ABQ BioPark Train Maintenance Building
- ABQ Ride Central & Unser Bus Transit Center Expansion •
- Albuquergue Convention Center Renovation •
- Bear Canyon Senior Center Renovation & Addition •
- Civic Plaza Renovation / Upgrades .
- Double Eagle II Airport NM Sqt. Tingwall Aviation Hangar Facility
- Holiday Park Multi-generational Center Renovation and Expansion
- New Fire Station #9 •
- Pino Yards and Animal Control Fueling Stations
- Planning Services for Cannabis Facility Air Filtration Plan
- Sunport 5 & 2.5 Eclipse Aviation Manuf. Bldgs. Schematic Design
- Sunport Cooling Tower Replacement

Historical Rosenwald Building New

New International District Library

Counties: Lea & Los Alamos

Police Substation

New Fire Station #9

- Sunport Customs Federal Inspect Station Study
- Sunport Post- Security Check Point Terminal Improvements Study
- Sunport VALE Grant-Central Utility Plant (CUP) Upgrades

North Domingo Baca New Aquatic Center & Spray Pad

Other NM Local Govt. Agency Exp.: Cities: Las Cruces & Santa Fe Counties: Bernalillo, Guadalupe, Lincoln, Los Alamos & Roosevelt

### **OSCAR URIAS, PE | ELECTRICAL ENGINEER | B&P**

Education: BS, Electrical Engineering, UTEP 2014 & MS Elec. Eng. UNM, 2020 | Registration: Professional Engineer NM # 25342 | Years of Experience: 9 (7 Years with B&P) | Professional Organizations: Institute of Electrical and Electronic Engineers & Building Industry Consulting Service International (BICSI).

### City of Albuquergue Experience (Unique Knowledge | 14+ COA Projects | On-Call Contracts):

- ABQ BioPark Trash Compactor Relocation •
- ABQ BioPark Zoo Asia Expansion
- ABQ BioPark Zoo Australia Exhibit Renovations
- Central Bridge Underpass Pedestrian Tunnel Improvements
- City Hall Emergency Generator Elec. Systems & Fes. Study

Other NM Local Govt. Agency Exp.: Cities: Rio Rancho & Roswell

### SHANNON BRYANT, PE | CONTROLS ENGINEER | B&P

Education: BS, Mechanical Eng., NMSU | Registration: NM PE # 15553 & TX | Experience: 33 Total Years (23 with B&P) | Professional Organizations: ASHRAE

### City of Albuquergue Experience (Unique Knowledge | 30+ COA Projects | On-Call Contracts):

- **ABCWUA New Customer Service Center** •
- ABQ BioPark Aquarium Ph. II Expansion & River Otter Exhibit
- ABQ BioPark Zoo Asia Expansion, Australia Exhibit Reno., Komodo • Dragon Exhibit & Reptile Bldg. HVAC System
- ABQ BioPark Zoo Penguin Chill Building & Exhibit
- Albuquerque Convention Center Renovation
- APD Foothills & NE Heights Area Substations Improv. •
- APD Metropolitan Forensic Science Center (Crime Lab) •
- Bear Canyon Senior Center Renovation & Addition

- CASA John Marshall Kitchen Reno.
- Holiday Park Renov. & Expansion
- •
- Los Duranes & Singing Arrow Community Centers
- New International District & Patrick J. Baca Library Bldgs.
- Pino Yards and Animal Control Fueling Stations •
- **Regional Transportation Management Center** •
- Sunport Cooling Tower Repl. & Central Utility Plant Upgrades

Other NM Local Govt. Agency Exp.: Cities: Clovis, Farmington, Gallup, Las Cruces, Rio Rancho, Roswell & Santa Fe Village: Ruidoso Counties: Bernalillo, Cibola, Eddy, Guadalupe, Lea, Lincoln, Los Alamos, McKinley, Otero, San Juan, San Miguel, Sandoval, Santa Fe, Sierra & Valencia









- Los Altos Pool Building Renovations

4600 C Montgomery Blvd. NE, Albuquerque, NM 87109 main 505.883.4111 www.bpce.com

### **BRIDGERS&PAXTON**

### SETAH BURFORD, CPD, GPD | PLUMBING DESIGNER | B&P

Education: Assoc. of Applied Science, CAD & Design, ITT Technical Institute | Licenses: Certified Plumbing Designer, Green Plumbing Design & Revit Certified Professional | Years of Experience: 16 Years (16 with B&P) | Professional Organizations: American Society of Plumbing Engineers

### City of Albuquergue Experience (Unique Knowledge | Six COA Projects | On-Call Contracts):

- Double Eagle Airport II Multi Use Building
- CASA (City of Albuquerque Senior Affairs) Kitchen Facility John Marshall Kitchen Replacement
- APD Northeast Heights Area Command Substation Facility Improvements
- Other NM Local Govt. Agency Exp.: Cities: Santa Fe

# Village: Ruidoso Counties: Bernalillo, Lincoln & Los Alamos

ABQ BioPark Zoo Penguin Chill Building & Exhibit

### STEVE OTERO, RCDD, DCE, DCTP, DCIE, DCES, DCIS | REGIONAL TECHNOLOGY **DIRECTOR | B&P**

Education: NM Joint Apprenticeship School for Telecommunications | Registrations: BICSI - Registered Communications Distribution Designer RCDD# 237189; IDCA - Data Center Expert, Data Center Technology Prof., Data Center Infra. Expert, Data Center Eng. Specialist, & Data Center Infrastructure Specialist Certifications | Years of Experience: 41 Years (8 with B&P) | Professional Organizations: New Mexico Technology Council, Building Industry Consulting Services International & International Data Center Authority

### City of Albuquergue Experience (Unique Knowledge | 15+ COA Projects | On-Call Contracts):

- ABQ Rapid Transit (ART) Station Improvements
- ABQ Ride Central & Unser Bus Transit Center Expansion
- APD Real Time Crime Center Renovation at the RMTC
- Central Bridge Underpass Pedestrian Tunnel Improvements
- Cibola Loop MP & Multigenerational Center Design Development
- City Security & Fire Protection Standards for Upcoming Projects

Other NM Local Govt. Agency Exp.: Cities: Artesia, Gallup, Las Cruces & Lovington

JOHN ZARRELLA | SENIOR MECHANICAL CONSTRUCTION ADMINISTRATOR | B&P

Licenses: Medical Gas Certificate, Journeyman Plumbing Gas, Medical Gas Installer & Medical Gas Inspector Years of Exp.: 31 Years (16 w/B&P) Professional Organizations: Associated Builders & Contractors

City of Albuquergue Experience (Unique Knowledge | 20+ COA Projects | On-Call Contracts):

- ABC Library Feasibility Study to Repurpose Highland High School • PAC Site
- ABC Library New International District Library .
- ABC Library, New Patrick J. Baca Central and Unser Library •
- ABQ BioPark Aquarium River Otter Exhibit
- ABQ BioPark Zoo Elephant Exhibit Barn Building •
- ABQ BioPark Zoo Penguin Chill Building Exhibit
- ABQ BioPark Zoo Asia Expansion •

**BRIDGERS**&PAXTON

Santa Fe & Valencia

- AFD New Fire Stations #2 & #7 & #9
- Albuquergue Convention Center Renovation

Other NM Local Govt. Agency Exp.: Cities: Lovington & Roswell

- APD Foothills Area Command • Substation Facility Improvements
- APD Northeast Heights Area Command Substation Facility Improvements
- APD NW Area Command Substation HVAC Systems Study
- Holiday Park Multi-generational Center Renovation and Expansion
- Kennel D (now called Kennel Q) Renovation & New Clinic Building
- Los Altos Pool Building Renovations
- Los Duranes Community Center

Counties: Bernalillo, Lea, Lincoln & Santa Fe

- Civic Plaza Renovation / Upgrades
- Los Altos Pool Building Renovations
- North Domingo Baca New Aquatic Center & Spray Pad
- **Regional Transportation Management Center**
- Sunport Customs Federal Inspection Station Study
- Sunport Post Security Check Point Terminal Improvements Study

Counties: Bernalillo, Lea, McKinley, Sandoval,



ABC Library, New Patrick J. Baca Central and Unser Library



### BRIDGERS&PAXTON

### MIGUEL GRIJALVA | SENIOR ELECTRICAL CONSTRUCTION ADMINISTRATOR | B&P

Education: Some College for Architectural Engineering & Independent Electrical Contractors 4 year program | Licenses: GE98 Journeyman Certificate | Years of Experience: 29 Years (14 w/B&P) | Professional Organizations: International Assoc. of Electrical Inspectors (IAEI)

### City of Albuquerque Experience (Unique Knowledge | 29 COA Projects | On-Call Contracts):

- ABC Library, New International District Library
- ABC Library, New Patrick J. Baca Central and Unser Library
- ABCWUA New Customer Service Center
- ABQ BioPark Aquarium Phase II Expansion
- ABQ BioPark Aquarium River Otter Exhibit
- ABQ BioPark Botanic Garden Insectarium/Bugarium
- ABQ BioPark Electrical Service Relocation & Infrastructure Upgrades
- ABQ BioPark Elephant Exhibit Barn Building
- ABQ BioPark Rio Grande Botanic Garden Rose Garden
- ABQ BioPark Zoo Asia Expansion
- ABQ BioPark Zoo Penguin Chill Building
- ABQ BioPark Zoo Reptile Building HVAC System Renovation

- ABQ Ride Central & Unser Bus Transit Center Expansion
- ABQ Ride Central Avenue Albuquerque Rapid Transit (ART) Stations
- AFD New Fire Stations #2 & #7 & #9
- Albuquerque Convention Center Renovation
- Bear Canyon Senior Center Renovation & Addition
- CASA Kitchen John Marshall Kitchen Replacement Holiday Park Multi-generational Center Renovation and Expansion
- Los Duranes Community Center
- Palo Duro Senior Fitness Center Addition Scoping Meeting
- Pino Yards and Animal Control Fueling Stations
- Regional Transportation Management Center (RTMC)
- Singing Arrow Community Center

Other NM Local Govt. Agency Exp.: Cities: Las Cruces, Rio Rancho & Santa Fe Counties: Bernalillo, Eddy, Guadalupe, Lea, Lincoln, Los Alamos, McKinley, San Miguel, Sandoval, Santa Fe, Sierra & Valencia

### R. NICK DAVIS, PE | STRUCTURAL ENGINEER | BOHANNAN HUSTON

Education: Bachelor of Science, Civil Engineering, New Mexico State University | Registration: Professional Engineer: NM #17860, AZ #53198 & WY #14913 | Yrs. of Exp.: 20 Years (18 w/ BHI) | Professional Organizations: Structural Engineers Association of New Mexico; American Institute of Steel Construction

### City of Albuquerque Experience (Unique Knowledge):

- Bosque Trail Rehabilitation
- Chappell Rd. and Singer Blvd. Bridge Widening I-40 Trail and Gail Ryba Memorial Bridge
- University Blvd. Extension

#### Additional On-Call Exp.:

City of Artesia On- Call Engineering Services

- Sandoval County On-Call Engineering Services
- NMDOT Statewide Structural Eng. Services Contract
- NMSU On-Call A/E Services
- USACE A/E IDIQ contract in Support of Military & USAF Projects NM

### GLENN BROUGHTON, PE, LEED AP | CIVIL ENGINEER | BOHANNAN HUSTON

Education: BS Civil Engineering, ASU & Certificate Design & Evaluation Process Outline (DEPO) | Registration: Professional Engineer: NM #14171 & LEED Accredited Professional | Yrs. of Exp.: 34 Years (23 w/ BHI) | Professional Organizations: Society of American Military Engineers & NAIOP

### City of Albuquerque Experience (Unique Knowledge):

- Alvarado Transportation Center Renovation
- Albuquerque Convention Center
- Dennis Chavez Community Center
- Heights Community Center Historic Renovation and Remodel
- Joan Jones Community Center Addition
- North Valley Senior Center

# Unique Knowledge of Key Team Members Relevant to the Project

We are local and can provide full engineering services and respond quickly and efficiently to requests made by the City of Albuquerque. Our team's engineers and design personnel are very familiar with the City and your special requirements. We have successfully worked with private, public, federal and local government clients on several on-call contracts. Our team brings a range of experience.







- Additional On-Call Exp.:
- Santa Fe County On-Call Engineering Services
- State of NM Property Control Division On-Call General Engineering Services

### BRIDGERS&PAXTON

### Section III Respondent Experience

Bridgers & Paxton | Previous Projects of Similar Nature:

# COA Patrick J. Baca Library | Albuquerque, NM

Client Contact: Mark Rohde, FAIA, RMKM Architecture, P: (505) 243-5454, E: Size: 25,30 mrohde@rmkmarch.com

Year Services Provided: 2011 - 2015 Construction Cost: \$8.4 Million



Project Description / Relevance: New library for the City of Albuquerque / Bernalillo County Public Library System. The site is located next to the city's transit park-and-ride center at Central & Unser. The new 25,305 SF building includes two reading rooms, including one

specifically for young adults. The room is enclosed behind glass walls and contains books intended for this age group but has other features young teens and adults will enjoy, such as a large television, a Wii console and a sound system. The teens have the ability to listen to music and play educational games without disturbing other patrons. The library also comes with a community room that can be rented out for meetings. The advanced systems, which include electrical, audio visual, security and IT systems, will be state-of-the-art.

**Sustainability:** Energy Efficient Lighting, Under Floor Air Distribution with Reduced Fan Energy & Higher Equipment Efficiency & Water Efficient Plumbing.

Size: 25,305 Square Feet

**B&P Services:** B&P provided mechanical, electrical, plumbing, controls engineering and technology design.

Key Team Member Project Responsibilities: Shannon Bryant (Controls Engineer), Setah Burford (Plumbing Designer) & Miguel Grijalva (Electrical Construction Administrator)

Awards: American Institute of Architects-Albuquerque, Honor Award, 2015



### COA Fire Station #9 | Albuquerque, NM

**Client Contact:** Kevin deGraauw, AIA NCARB LEED BD+C, Vigil & Associates, P: (505) 890-5030, E: kevin@va-architects.com

Year Services Provided: 2018 - 2020 Construction Cost: \$3.2 Million

**Project Description / Relevance:** New fire station for the Albuquerque Fire Department. The new 10,514 SF building includes three apparatus bays, an exercise room, kitchen and dining area, a living room, 8 bunk rooms, 3 officer suites (office & private bunk room), training room, computer room, restrooms, EMS cleanup, EMS supply, apparatus support & supply rooms and an air fill station.



Sustainability: The building is also designed to connect to future Photovoltaic / Solar panels when they are funded by the City. Size: 10,514 Square Feet

**B&P Services:** B&P provided mechanical, electrical, plumbing, controls engineering and technology design.

Key Team Member Project

**Responsibilities:** Eric Conklin (Mech. Eng.), Oscar Urias (Elec. Eng.), Shannon Bryant (Controls Eng.), John Zarrella (Mech. Const. Admin.) & Miguel Grijalva (Elec. Const. Admin.)



# COA Civic Plaza Renovation & Upgrades | Albuquerque, NM

Client Contact: Kendal Giles, AIA, P: (505) 761-9700, E: kendalg@dpsdesign.org Year Services Provided: 2017 - 2018 Construction Cost: \$6.5 Million



Project Description / Relevance: Redevelopment of Albuquerque's Civic Plaza that is on top of a twolevel parking structure. The project involved the removal of a

large fountain and the addition of a new interactive splash park, a children's playground and the Al Hurricane Pavilion with a large video display and new theatrical lighting and sound speakers for large outdoor concerts and events.

**Sustainability:** The interactive fountains / splash pad uses smaller, modern and water conserving equipment and the use LED lighting.

Size: 30,000 Square Feet / Capacity of 20,000 People

**B&P Services:** B&P provided mechanical, electrical, plumbing engineering and technology design.

#### Key Team Member Project

**Responsibilities:** Eric Conklin (Mech. Eng.), Steve Otero (Technology Design) & Miguel Grijalva (Elec. Construction Admin.)

Awards: ENR Southwest, Best Projects Award – Landscape/Urban Development, City of Albuquerque, Civic Plaza Renovation, 2019



# COA Regional Transportation Management Center | Albuquerque, NM

Client Contact: Ron Burstein, AIA, CCS, Studio Southwest Architects, P: (505) 843-9639, E: ronb@studioswarch.com

Year Services Provided: 2018 – 2020 Construction Cost: \$12.275 Million (Phase 1)

**Project Description / Relevance:** New Regional Transportation Management Center for public safety and transportation agencies. Phase 1 of the project replaced mechanical, electrical, plumbing and technology systems in the old NM National Guard armory building owned by the City of Albuquerque. The existing two-story building was upgraded to support the state's largest transportation and law enforcement agencies and streamlines emergency responses. The facility is occupied 24/7/365 and includes an Operations Room and Incident Room for monitoring transportation systems and responding to events in the Albuquerque metropolitan area. The building was designed with a data center (room for 30 Racks) & UPS Room. The first floor (34,000 SF) was remodeled for office, meeting, training, training / classrooms, and Bernalillo County Sheriff evidence storage for traffic / DWI departments.

Agencies: Cities of ABQ & Rio Rancho, MRGCD, NMDOT, U.S. DOT / FHA, NM DPS / State Police, Local Law Enforcement (APD, Bernalillo County Sheriff's Dept. & Rio Rancho DPS) & Transit Entities (ABQ Ride, Rio Metro Reg. Transit District / NM Rail Runner).

The team is currently working on a design to renovate the second floor to move the Albuquerque Police Dept. Real Time Crime Center into this building.



Size: 55,595 Square Feet

**B&P Services:** B&P provided mechanical, electrical, plumbing, controls engineering and technology design.

Key Team Member Project Responsibilities: Shannon Bryant (Controls Engineer), Steve Otero (Tech. Design) & Miguel Grijalva (Electrical Construction Administrator)

Awards: NAIOP Award of Excellence for Community/Civic, Merit Award, 2020.

#### **BRIDGERS**&PAXTON

### COA International District Library | Albuquerque, NM

Client Contact: Mark Rohde, FAIA, RMKM Architecture, P: (505) 243-5454, E: mrohde@rmkmarch.com

Year Services Provided: 2018 – 2022 Construction Cost: \$15.5 Million

**Project Description / Relevance:** New 25,000 square foot library in the International District with an adjacent Route 66 Story Plaza for outdoor gatherings and displays of art and poetry by the community.

In recognition of the 40-year history of the Caravan East night club, the community room has a wood floor that can be used for dance demonstrations and instruction. The building also has classrooms for all ages, the first such space in an Albuquerque/Bernalillo County Library. Other features include an early literacy center to encourage interactive play, a children's activity room for programs such as story time, music and movement, and read to the dogs, and a fireplace as the centerpiece of the adult area to create a community living room. The International District Library will also be home to the ABC Library system's world languages collections and will have a dedicated international section.

**Sustainability:** The is built for sustainability with saturated and natural daylight from skylights and clerestory windows so minimal artificial light will be required during the day; a raised floor closed loop heat pump system requiring no gas and minimal electricity to operate; energy efficient lighting and high efficiency fire place; and equipped to support solar panels that will be installed later to bring use of electricity to minimal or even negative use.

Size: 25,000 SF

**B&P Services:** B&P provided MEP, Ctrls. engineering and technology design.

#### Key Team Member Project

**Responsibilities:**, Oscar Urias (Elec. Eng.), Shannon Bryant (Controls Eng.), Steve Otero (Tech. Dgn.), John Zarrella (Mech. Const. Admin.) & Miguel Grijalva (Elec. Const. Admin.)



### COA ABQ Ride Central & Unser Bus Transit Center Expansion | Albuquerque, NM

Client Contact: John Jarrard, AIA Huitt-Zollars, P: (505) 883-8114, E: jjarrard@huitt-zollars.com

Year Services Provided: 2016 – 2019 Construction Cost: \$2.5 Million

**Project Description:** Bridgers & Paxton provided engineering design services for the ABQ Ride Central & Unser Transit Center Expansion (CUTC) project. The existing facility was expanded to provide dedicated platforms for the new ART bus fleet and address peak-time congestion. This project added 3 bus spaces, restroom / break building for drivers, e-ticking, electrical systems upgrades for the new ART electric buses, enhanced security, emergency call, passenger information/display systems and parking lot lighting & security. The project also added landscaping and lighting in different areas to give the hub a brighter curb appeal.

This site has been the western terminus for several ABQ Ride routes since 2004. A new canopy designed to shelter the new ART buses and their passengers that are similar to the lighting scheme at the other ART platforms. The facility features ticket vending machines like those at the other ART stations, as well as passenger information/display systems showing schedule and real-time bus location information. Decorative lighting scheme for the facility now continues into the adjacent Patrick J. Baca Library site.

**Sustainability:** Special design features such as rainwater harvesting and photovoltaic arrays were incorporated into the design. A new covered outdoor passenger waiting area is separated with xeriscaping, and additional spaces were created to accommodate concession stands.

Size: Added a second bus platform.

**B&P Services:** B&P provided mechanical, electrical, plumbing engineering & technology design.

Key Team Member Project Responsibilities: Eric Conklin (Mech. Eng.), Steve Otero (Tech. Design) & Miguel Grijalva (Elec. Construction Admin.)



### BRIDGERS&PAXTON

# Bridgers & Paxton | Past Performance on Government Agency On-call Contracts:

Bridgers & Paxton has over 40 years of engineering on-call contract experience. Our firm has the experience, expertise, and capabilities to support all manner of facilities-related work and all sizes of projects. We understand on-call contracts require the consultant to be versatile, flexible, and responsive. Below is a matrix that summarizes our past performance on government agency on-call contracts in New Mexico.

		t)				En	gin	eeri	ing	Ser	vic	es			B	Build	ling	Тур	bes			
Federal, State & Local Govt. Agency Experience in New Mexico	Project Experience Duration	Role (Prime / Subconsultan	Client On-call Experience	Renovations	New Construction	Mechanical	Electrical	Plumbing	Fire Protection	Instrumentation/Controls	Telecom/Technology	Sustainable/Energy	Office / Admin Buildings	Public Safety/Emergency	Data Centers/Computer	Fleet Maintenance	Detention/Court	Cultural/Community	Infrastructure/Utilities	Animal Care	Medical/Laboratories	Recreation
City of Albuquerque	1954 - 2022	P&S	•	•	•	•	٠	•	•	•	•	•	•	•		•		•	٠	•	٠	•
Bernalillo County	1953 – 2022	P&S	•	٠	•	•	٠	٠	•	•	•	•	•		٠	٠	٠	٠			•	٠
Sandoval County	1958 – 2022	P&S	•	•	•	•	•	•	•	•	•	•	•		•		•				•	
Santa Fe County	1983 – 2022	P&S		•	•	•	•	•	•	•	•	•	•	•	•		•	•			•	
Eddy County	1992 – 2016	Sub		•	•	•	•	٠	•	•	•	٠	•	٠	•		•					
Lea County	1989 – 2022	Sub		•	•	•	•	٠	•	•	•	•	•				•	٠		•	•	
Lincoln County	1998 – 2021	Sub		•	•	•	•	•	•	•		•				•	•				•	
Los Alamos County	1965 – 2022	P&S	•	•	•	•	•	•	•	•	•	•	•	•			•	•	٠			•
San Juan County	1958 – 2018	Sub		٠	•	•	•	•	•	•	•	•	•	•			•				•	
State of New Mexico	1962 – 2022	P&S	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	٠		•	•
Sandia National Laboratories	1951 – 2022	P&S	•	٠	٠	•	•	•	•	•	•	•	•	•	٠	•			٠		•	
Los Alamos National Laboratory	1953 – 2022	P&S	•	•	•	•	•	•	•	•	•	•	•	•	•				•		•	

# Project Manager's City Experience in the Last 5 Years that Demonstrate Knowledge of City's

**Procedures:** Eric Conklin, B&P's Project Manager has worked on a variety of projects for the COA. Because of this experience, he understands City standards and procedures. Eric Conklin has provided design, and project oversite on several City of Albuquerque projects/task orders. Mr. Conklin brings leadership and innovative engineering solutions to the team.

### Eric Conklin, COA Experience in the Last 5 Years:

- COA, ABQ Ride Central & Unser Bus Transit Center Expansion (2019)
- COA, Albuquerque Fire Department New Fire Station #9 (2020)
- COA, Albuquerque International Sunport Customs & Border Protection Federal Inspection Station Study (2019)
- COA, Albuquerque Sunport Post Security Check Point Terminal Improvements Study (2020)
- COA, Aviation Dept. Double Eagle II Airport Sgt. Andrew Tingwall Aviation Hangar Facility (2019)
- COA, City Council On- Call Planning Services for Cannabis Facility Air Filtration Plan (2021)
- COA, Civic Plaza Renovation / Upgrades (2018)



### BRIDGERS&PAXTON Section IV Technical Approach

### Respondent Understanding of the Project Scope:

The B&P Team is available to provide mechanical, electrical, civil and structural engineering services for the City Wide On-Call Engineering Services contract. We anticipate projects under this contract will be small to medium sized that involve facility upgrades, renovations, equipment replacements, studies and possibly small new construction projects. We take pride in ensuring that every project, no matter the size, receives the attention needed to meet the same level of quality and care that a large project receives. Our internal team of engineers and our sub consultants have the expertise, capacity and familiarity with the City's facilities, standards and processes to make any projects successful that arise from this contract.

# How Respondent Plans to Perform Services Required by Project Scope:

When a task order is requested by the City and received by B&P, we anticipate the following process:

**Mobilize Our Team:** We will review the task order and start assembling the appropriate team members to review the statement of work and schedule a site walk with your team if necessary to make sure there is alignment among all parties and the scope is understood.

Scope & Schedule Development: After mobilization, we will develop a specific proposal for the task order that includes our understanding of the project, our estimated effort to complete the task order and a proposed schedule to complete the work. Our schedule will define project meeting frequency and key project milestone targets in which we will formally submit progress to the City for review and coordination.

**Preparation of Deliverables:** Once the scope and schedule are agreed upon and our team is given notice to proceed, we will get started on producing deliverables. Regular meetings with the appropriate stakeholders and team members will commence to ensure the project stays on track. We will develop and distribute an agenda in advance of the meetings. User input, deliverable progress, costs and schedule will be discussed during the stakeholder meetings. At each project milestone, we will formally submit our deliverables for review and approval by the City's stakeholders. A cost estimate will be prepared and included at each milestone to ensure scope and budget alignment.

**Bidding:** Upon completion of our deliverables, we will assist in developing the bid advertisement with the City and will schedule and lead a project pre-proposal meeting with prospective contractors. Questions that arise during the bidding phase will be responded to formally via addenda and issued to the prospective bidders. After bids are received, our team will review the bids for completeness and prepare a recommendation for award to the City.

**Construction:** Our Construction Administration team members will attend Construction Coordination meetings. In conjunction with these meetings, they will produce construction observation reports to document construction progress. B&P maintains RFI and Submittal logs in our Newforma Project Database. The items are logged in as they are received and distributed to the appropriate Discipline Lead for resolution. Upon resolution, they will be logged out and returned to the construction team.

**Project Closeout:** After construction is substantially complete, we will continue to work to ensure punch list items are completed, systems are operating as intended and closeout documentation is provided to the City. In our experience, often times project closeout can extend beyond the anticipated duration of construction, however our team is dedicated to seeing them through to the end.



### Specialized Problem Solving Required in Any Phase of the Project:

We feel that many of the project's large problem solving activities occur in the early phases of the project. This is the time to uncover scope and systems issues and solve the larger issues or problems. If the project's unique issues are not addressed early, this can result in unexpected consequences later in the detailed design and construction phases.



Assessment & Analysis Phase: This initial phase of the project is one of the most critical times for a project in determining its success. Our experience and knowledge of City facilities, standards and processes is advantageous during this phase. For replacement or renovation projects, this means a thorough gathering of information and accurate assessment. Alternative development and analysis will occur during this phase to meet the overall goals for the project. Accurate cost data will be developed during this time to help with the decision making process. Often time we will perform life cycle cost analyses during this phase to help the City make informed decisions.

**Design / Construction Document Phase:** Our team's many years' experience with constructability issues, industry best practice for maintainability and serviceability are incorporated into the design of each project. We are continually drawing from our long-standing relationships with Client facility staff to understand the issues they encounter to improve our designs. Internally at B&P, we regularly organize project "lessons learned" sessions where designers, engineers and Construction Administration team members share their experiences on projects with the goal of continual improvement on future projects. Eric Conklin is responsible for conducting a post-task-order completion evaluation whereby the team personnel may comment on the design documentation or the construction period support. The feedback received is incorporated into our "Lessons Learned" program whereby the B&P Team can continue to improve their overall performance.

**Construction Phase:** Our team excels in problem solving during the construction phase of the project. If an issue arises during construction, we take a proactive approach in resolving it. As soon as an issue is identified, appropriate team members will be engaged and communicating with both the contractor and City to quickly determine the best solution and keep the project moving forward. When changes in scope occur, we work diligently to document the change and evaluate associated costs to ensure alignment with the scope change.



### BRIDGERS&PAXTON

# Section V Cost Control Cost Control & Cost Estimating Techniques to be Used for the Project:

**Cost Control of Design Process:** Our team uses the task order documents and communicates with the appropriate City representative on project scope and budget to establish design costs. Once the scope and budget have been developed and accepted, any changes that are brought to B&P's Project Manager's attention are forwarded to the appropriate City personnel. Estimated design and construction costs are provided to help in the decision to determine if a change in scope will be incorporated. Our firm maintains design costs through our fully integrated Deltek Vision software that tracks real time timesheet, consultant information and project expenses. We prepare construction cost estimates at each project phase milestone submittal to provide guide posts to confirm we are on target and within budget. Adjustments are made to the design at each phase to reconcile design scope verses allowable budget.

**Cost Control of the Construction Cost:** B&P works in a proactive manner during the construction process. Our Construction Administration team (CA), with previous experience in the construction industry as well as specific COA construction experience, assists and supports the PM/Design Team. Our CA team members assist in the preparation of construction estimates and perform constructability reviews during the design phase to minimize changes during construction. To resolve field, budget or scope issues, the CA team gathers the data and coordinates with the PM who directs the necessary team members to develop a response. Construction issues are given priority to minimize impacts to the construction schedule. The PM has final review and continues to be responsible for the overall project delivery. The B&P PM will coordinate with the COA PM to address cost and schedule impacts in a timely manner. Our team members are always looking for ways to give our clients the most project scope for their budget during all phases of the project.



**Cost Estimating Techniques:** The B&P team has professional cost estimators on staff that utilize industry standard cost estimating guides (R.S. Means, etc.), obtain real material costs from local vendors, update these costs during the design timeline, and review project design estimates with actual bid results and keep historical data for future review. Our estimating team is also aware of market conditions at the time of cost estimate preparation to incorporate or identify special cost concerns like cost escalations that may impact project budgets.

# Comparisons of Bid Award Amount to Final Cost Estimate for Projects Designed by the Respondent During the Past Two (2) Years:

Name of Albuquerque Projects	Month &	No. of Bids	Final Cost	Bid Award
	Year Bid	Received	Estimate	Amount
COA / Bern. Co., New International	June 2020 Awarded	3	\$2.6M	\$3M
District Library				
Presbyterian Hospital Cogeneration	Dec 2019	2	\$6.1M	\$6.2M
UNM HSC Substance Use & Brain Injury Facility	April 2020 CMAR Award	CMAR	\$3.8M	\$4.2M
APS Janet Kahn School of Integrated Arts Bldg. Ph 2	Jan 2022 Awarded	Not Available to B&P	\$6.5M	\$6M



Agreement and Insurance Certification Form

We have reviewed the standard agreement for Engineering or Architectural or Landscape Architectural Services that are required for the project listed below, and hereby certify that we will, if selected for the project, enter into this standard agreement for this project and meet all insurance requirements listed therein. This Certification is intended for the use of the City of Albuquerque only, in conjunction with the award of the Engineering or Architectural or Landscape Architectural Services Agreement for Project. Project Name Engineering Consultants for City Wide On-Call Engineering Services Project Number Project No: 6098.93 Date March 3I, 2022 Firm Name Bridgers & Paxton Consulting Engineers, Inc. Signature Engineering Consultants for City Wide On Consulting Engineers, Inc. Signature Fredeett	Agree	ment and Insurance Certification
This Certification is intended for the use of the City of Albuquerque only, in conjunction with the award of the Engineering or Architectural or Landscape Architectural Services Agreement for Project:  Project Name Engineering Consultants for City Wide On-Call Engineering Services  Project Number Project No: 6098.93  Date March 31, 2022 Firm Name Bridgers & Paxton Consulting Engineers, Inc.  Signature Line Constraints State OF NEW MEXICO )  Iss  COUNTY OF BERNALILLO )  The above Certification was subscribed before me, the undersigned authority, by:  Edit CanKlin  who swore upon oath that this Certification was signed of free act and deed, on this  31 <sup>rd</sup> day of, 20 22	We have rew that are requ this standard	iewed the standard agreement for Engineering or Architectural or Landscape Architectural Services ired for the project listed below, and hereby certify that we will, if selected for the project, enter into agreement for this project and meet all insurance requirements listed therein.
Project Name Engineering Consultants for City Wide On-Call Engineering Services Project Number Project No: 6098.93 Date March 31, 2022 Firm Name Bridgers & Paxton Consulting Engineers, Inc. Signature	This Certific Engineering	ation is intended for the use of the City of Albuquerque only, in conjunction with the award of the or Architectural or Landscape Architectural Services Agreement for Project:
Project Number <u>Project No: 6098.93</u> Date <u>March 31, 2022</u> Firm Name <u>Bridgers &amp; Paxton Consulting Engineers, Inc.</u> Signature	Project Nam	e Engineering Consultants for City Wide On-Call Engineering Services
Date March 31, 2022       Firm Name       Bridgers & Paxton Consulting Engineers, Inc.         Signature	Project Num	ber <u>Project No: 6098.93</u>
Signature $\_$ $\_$ $\_$ $\_$ $\_$ $\_$ $\_$ $\_$ $\_$ $\_$	Date March	31, 2022 Firm Name Bridgers & Paxton Consulting Engineers, Inc.
Title <u>Vice President</u> STATE OF NEW MEXICO ) ) ss COUNTY OF BERNALILLO ) The above Certification was subscribed before me, the undersigned authority, by: <u>EAL CALUN</u> who swore upon oath that this Certification was signed of free act and deed, on this <u>31<sup>±</sup></u> day of <u>mench</u> , 20 <u>22</u> (Notary Public) <u>June L. Jonny</u> My commission expires: <u><math>01312022</math></u> OFFICIAL SEAL Tammy L. Gomez NOTARY PUBLIC STATE OF MEXICO	Signature	Em Collisi
STATE OF NEW MEXICO ) ) ss COUNTY OF BERNALILLO ) The above Certification was subscribed before me, the undersigned authority, by: <u>EQL CINUM</u> who swore upon oath that this Certification was signed of free act and deed, on this $31^{+}$ day of, 20 22 (Notary Public) $\mathcal{F}_{\mathcal{F}}$ $\mathcal{F}_{\mathcal{F}}$ $\mathcal{F}_{\mathcal{F}}$ $\mathcal{F}_{\mathcal{F}}$ My commission expires: $\bigcirc 1/3/2022$ OFFICIAL SEAL Tammy L. Gomez NOTARY PUBLIC STATE OF NEW MEXICO	Title <u>Vice</u>	President
) ss COUNTY OF BERNALILLO ) The above Certification was subscribed before me, the undersigned authority, by: <u>EQL (InKlin</u> who swore upon oath that this Certification was signed of free act and deed, on this <u>31<sup>st</sup></u> day of, 20 22 Notary Public) $free free free free free free free fre$	STATE OF	NEW MEXICO )
<u>EQU Contlin</u> who swore upon oath that this Certification was signed of free act and deed, on this <u>31<sup>st</sup></u> day of <u>march</u> , 20 <u>22</u> (Notary Public) <u>Jz</u> <u>L</u> . <u>Jong</u> My commision expires: <u>011312022</u> OFFICIAL SEAL Tammy L. Gomez NOTARY PUBLIC STATE OF NEW MEXICO		
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My Commission Expires: 6 13 2-2	The above O <u>EQIL</u> (to who swore to <u>31</u> day (Notary Public My commis	DF BERNALILLO ) ertification was subscribed before me, the undersigned authority, by: $\frac{MU_{ID}}{MU_{ID}}$ pon oath that this Certification was signed of free act and deed, on this of, 20_22 $\frac{MW_{ID}}{MW_{ID}}$ on expires:

### **BRIDGERS**&PAXTON

### Insurance Certificate

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### BRIDGERS&PAXTON Pay Equity Reporting Form

E.

Corr	ipany Name	Bridgers & Paxton Consulting	Engineers, Inc.	Ma	iling Address	4600	)-C Montgo	mery Blvd., NE
						Albu	querque, N	IM 87109
Pho	ne	(505)883-4111						
Ema	il Address	bibotts@bpce.co	m	NN	1 Employees?	yes		
Job	Category				No. Fema	les	No. Males	Gap (Abs. %
1.1	Exec/Senior	Level Officials/Mgrs			0	6		N/A
1.2	First/Mid Lev	el Officials/Mgrs			0	5		N/A
2	Professional	S			6	2	5	2.11%
3	Technicians				2	3	4	1.74%
4	Sales Worke	rs			0	0	)	N/A
5	Office and A	dmin. Support			13	2		30.72%
6	Craft Worker	s (Skilled)			0	1		N/A
7	Operatives (	Semi-Skilled)			0	0		N/A
8	Laborers (Ur	nskilled)			0	0		N/A
9	Service Worl	kers			0	C	i	N/A
	Overall Total				21	7	3	7.18%
Tota	I # of Females	(all categories)	21		Total # of Males	s (all ca	itegories)	73
Tota	I # Female On	ly Job Categories	0		Total # Male Or	nly Job	Categories	3
Tota	I # Part Time F	-emales	3		Total # Part Tim	ne Male	9S	4
Fem	ale % Workfor	ce	22.3	4%	Male % of Work	kforce		77.66%
Tota	I # Employees		94		Total # Non-Bin	ary Em	ployees	0
Mus New your	t be signed Mexico are information	by a representative of included, the data is for may require you to ge	of the compa or one year e t third party v Be	any. S nding erifica	Signature certif when the form ation at your ov <i>I. Botts</i>	fies tha n is sig wn exp	at all employ ned, and ar pense.	vees working in by challenges to
-	ckie I. Botts I	-inancial Officer					Feb	15, 2022



# Project No: 6098.93



#### NEW MEXICO HEADQUARTERS

4600 C Montgomery Blvd. NE Albuquerque, NM 87109 505.883.4111

#### ARIZONA

1839 S Alma School Rd.,Ste 300 Mesa, AZ 85210 602.996.6399

### COLORADO

1365 Garden of the Gods Rd., Ste. 130 Colorado Springs, CO 80907 719.630.3350

www.bpce.com