

# EC-22-103 CITY OF ALBUQUERQUE Albuquerque, New Mexico Office of the Mayor

Mayor Timothy M. Keller

### **INTER-OFFICE MEMORANDUM**

# DATE: June 17, 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 June 16, 2022 to consider the following project.

- *Project:* Project No's: 7206.00, 7207.00, & 7208.00; Engineering Consultants for City Wide On-Call Engineering Services
- Agency: Department of Municipal Development

Project Description: The scope of work may include miscellaneous transportation engineering and storm drainage design and consultation on a variety of projects throughout the city. This includes but is not limited to; studies and reports, planning, conceptual drawings, engineering design, NMDOT certification process, accounts payable assistance, and NMDOT reimbursements. Work may also include surveying, testing, public meetings, street/ landscape design, traffic engineering, hydrology projects, complete streets design, bicycle facility design, construction management, preparation of plans, specifications, estimates, and construction contract documents as well as other tasks. Funding sources will vary by task including local, state and federal monies, therefore POINT DEDUCTIONS will NOT be applied.

The Committee made the following recommendation:

AECOM	230
Horrocks	254
Lee Engineering	258
Parametrix	270
Wilson & Company	255
WSP USA Inc.	263

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:

Lee Engineering Parametrix WSP USA Inc.

Mayor's Recommendation of Lee Engineering, Parametrix, and WSP USA Inc. for Project No's: 7206.00, 7207.00, & 7208.00; Engineering Consultants for City Wide On-Call Engineering Services

This recommendation is being forwarded for Council consideration and action.

Approved:

Lawrence Rael Date Interim Chief Administrative Officer

Approved as to Legal Form:

DocuSigned by:

6/21/2022 | 3:39 PM MDT awer te Kevin Morrow Date Deputy City Attorney

Recommended:

-DocuSigned by:

6/21/2022 | 2:35 PM PDT

Date

Pa<u>frick Montoya</u> <sup>-1</sup>Patrick Montoya, Director Department of Municipal Development

MIM Attachments:

Cover Analysis Composite SAC Evaluation Form Minutes of the SAC Meeting

### **Cover Analysis**

### 1. What is it?

This is a request for a Citywide On-Call Engineering services contract for Capital Outlay funded transportation and storm drain work.

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

This legislation will approve the selected engineering firm to provide professional technical services in support of CIP transportation and storm drain projects led by DMD.

### 3. Why is this project needed?

The project is needed to provide continued support for the engineering division as current On-Call contracts reach capacity.

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

The maximum compensation is \$2,000,000 and funding sources will be those provided through the State Capital Outlay process.

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

No. There is not a revenue source associated with this contract.

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

If this is not approved the engineering division will not have the ability to produce designs for infrastructural projects that are specifically designated via the Capital Outlay process.

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

No, the current On-Call contracts are not designated to serve the division in designs for Capital Outlay work.

## Composite Selection Advisory Committee Evaluation Form

### Project No's: 7206.00, 7207.00, & 7208.00; City Wide On-Call Engineering Services

#### DATE: 6/17/22

Evaluation Criteria	Maximum	Firm Name	Firm Name	Firm Name
	Points	Lee Engineering	Parametrix	WSP USA Inc.
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> <li>Indicate where the services are to be performed</li> </ol>				
II. Project Team Members				
<ol> <li>Provide organization plan for management of the project.</li> </ol>				
2. Identify all consultants to be used on the project.				
<ol> <li>Provide qualifications of project team members shown in organization plan, including registration and membership in professional organizations.</li> </ol>	125	111	116	112
<ol> <li>Provide any unique knowledge of key team members relevant to the project.</li> </ol>				
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> <li>Provide examples of the Project Manager's City experience</li> </ol>	150	123	133	130
within the past five (5) years that serve to demonstrate the the Project Manager's knowledge of City procedures.				
<ul> <li>IV. Technical Approach</li> <li>1. Describe respondent's understanding of the project scope.</li> <li>2. Describe how respondent plans to perform the services required by the project scope.</li> </ul>	125	110	113	111
<ol><li>Describe specialized problem solving required in any phase of the project.</li></ol>				
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>	50	35	38	37
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.	25	24	25	24
Total Possible Points	500	500	500	500
Total Points (Before Point Deductions)	-	428	450	439
Minus High and Low Scores Total		170	180	176
Total Points (Minus High and Low Scores)		258	270	263
Minus Point Deductions (If Applicable)		0	0	0
Sub-Total (All Applicable Deductions Applied)		258	270	263
Plus Tie Breaker Points (If Applicable)		0	0	0
SAC TOTAL SCORES		258	270	263
Plus Interview Scores		0	0	0
FINAL SCORES		258	270	263

Minutes of the Meeting of the Selection Advisory Committee June 16, 2022

via Email

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

### Project No's: 7206.00, 7207.00, & 7208.00

### **Present:**

Eric Michalski, PM, PE, Department of Municipal Development Paula Dodge-Kwan, PE, Department of Municipal Development Tim Brown, PE, Department of Municipal Development Valerie Hermanson, Department of Municipal Development Debbie Bauman, Department of Municipal Development

### Staff:

Myrna Marquez, Administrator, Selection Advisory Committee

Seven proposals were received in response to the Request for Proposals but one proposal was deemed nonresponsive because a complete Pay Equity Form was not included. The SAC Committee therefore scored six proposals.

### **Project Description:**

The scope of work may include miscellaneous transportation engineering and storm drainage design and consultation on a variety of projects throughout the city. This includes but is not limited to; studies and reports, planning, conceptual drawings, engineering design, NMDOT certification process, accounts payable assistance, and NMDOT reimbursements. Work may also include surveying, testing, public meetings, street/ landscape design, traffic engineering, hydrology projects, complete streets design, bicycle facility design, construction management, preparation of plans, specifications, estimates, and construction contract documents as well as other tasks. Funding sources will vary by task including local, state and federal monies, therefore POINT DEDUCTIONS will NOT be applied.

### Maximum Compensation\$ 2,000,000.00

The Administrator contacted the SAC Committee and RFP respondents on the morning of June 16, 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 June 16, 2022.

The Administrator collected the Committee members' scores and she deleted the high score and low score and then totaled the proposal scores. A tie resulted from this total and one (1)

point was added to the firm having the highest score dropped which again resulted in a tie because the two tied firms had the same highest score dropped so they each received one (1) point. Again the Administrator broke the tie by adding one (1) point to the firm having the lowest score dropped which resulted in all ties broken.

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.

There being no further business before the Committee, the Administrator adjourned the email meeting by emailing everyone at 2:02pm on June 16, 2022.

# <u>Myrna Márquez</u>

Myrna Marquez, Administrator Selection Advisory Committee

cc: City Clerk





City of Albuquerque

# City Wide On-Call Engineering Services

Project No: 7206.00, 7207.00, & 7208.00

Submitted: June 1, 2022

WSP USA Inc. 2440 Louisiana Blvd NE Suite 400 Albuquerque, NM 87110

505.881.5357 www.wsp.com













# vsp

June 1, 2022

Eric Michalski, City of Albuquerque Project Manager Department of Municipal Development One Civic Plaza, 7th Floor, Room 7057 Albuquerque, NM 87102

### Re: City Wide On-Call Engineering Services (7206.00, 7207.00 & 7208.00)

Dear Mr. Michalski and Members of the Selection Advisory Committee,

WSP USA Inc. (WSP) is pleased to submit this proposal for the City Wide On-Call Engineering Services. We have had the pleasure of serving the City's Department of Municipal Development (DMD) on previous on-call contracts for many years and with the recent record high traffic related pedestrian deaths, are especially excited about and invested in the Vision Zero initiative the City has committed to. From installing light poles to complete streets restriping or raised crosswalks, WSP has recent proof of our team's dedication to creating a safer community and will continue to work as trusted partners with the City to move closer to the Vision Zero goal of zero traffic fatalities by the year 2040. We at WSP will continue to work as trusted partners with the City to move closer the Vision Zero goal.

Our team of over 55 local employees, led by Project Manager Dan Sims, continues to grow its capacity and capabilities, and can deliver all aspects of this RFP. We are equipped to assist the City in delivering federally or locally funded projects from conception through construction, and even post-construction for reimbursement assistance. Our business is not just designing roadways, but also planning and looking beyond the engineering to collaborate with the City and community in implementing the best possible outcomes for each task. For that reason, we are proposing Dominic Montoya, Transportation Planner, to be the Deputy Project Manager on this contract to bring a different perspective to our team.

The City of Albuquerque is a top-tier client with unique challenges that we understand from years of working together, and we appreciate this opportunity to present our qualifications for this contract. We look forward to your favorable consideration of our proposal and our continued relationship with the City of Albuquerque.

Sincerely,

Rolt D Out

Robert Ortiz, PE (NM #12719) Principal-in-Charge

lighty

Craig Corey AVP / Local Business Leader, Transportation

WSP USA 2400 Lousiana Blvd NE Suite 400 Albuquerque, NM, 87110

505.881.5357 www.wsp.com

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# SECTION I GENERAL INFORMATION

# I.1 Provide name, address of respondent, and telephone number of respondent, and, if firm, when firm was established.

WSP (DUNS# 05-666-8700) is located at 2440 Louisiana Blvd NE, Suite 400, Albuquerque, NM 87110. Our telephone number is 505.881.5357. Our Albuquerque office opened in 1994, while WSP has been in operation for over 130 years since being established in 1885. WSP has been providing services to the City of Albuquerque since 1994.

# I.2 Provide number of employees, technical discipline, registration, and registration #.

WSP is one of NM's leading planning, design, engineering, and construction management firms. More importantly, for over 28 years we have proudly served City of Albuquerque (COA) and assisted the City in meeting its core purpose of providing connections that improve people's lives. Working side by side with City staff, our team has delivered numerous scoping documents, final design projects, and feasibility studies. Working together for years also allowed us to develop a keen understanding of COA's guiding documents, and continue to build excellent working relationships with COA staff based on mutual commitment quality and responsiveness. The table below shows the team members assigned to this contract.

### Team Members Assigned to this Contract

Dan Sims Contract/Project Manager Robert Ortiz NM [PE 12719] Principal-in-Charge (PIC) & **Construction Management Lead** Craig Corey AVP / Local Business Leader Dominic Montoya Deputy Project Manager (DPM) & **Transportation Planner** Andrew Sutliff [NM PE 26129] Roadway Engineer Ivan Perez-Gonzalez [NM PE 26397] Roadway Engineer Nicole Tsabetsaye Roadway Designer Dominic Chavez [NM PE 26583] Traffic Engineer Risa Lujan [EIT 7547] Traffic Designer Dustin Davidson [NM PE 26703] Drainage Engineer Ryan Adams [EIT 7513] Drainage Designer Nathan Abel Drainage Designer Jennifer Hyre Environmental & Public Involvement Lead Lindsay Mitchell Environmental Support Meghan Myers [NM PE 24960] Structural Engineer Mohammad Azarbayejani [NM PE 26018] Structural Engineer Arno Cheng [NM EIT 7474] Structural Designer

WSP can provide in-house support for all major service areas identified in the RFP. Our team has the capacity to commit to the



successful delivery of task orders assigned under this contract without compromising our active project schedules.

# I.3 Indicate where the services are to be performed.

Firm	Location
WSP Prime Offeror	2440 Louisiana Blvd NE, Suite 400, Albuquerque, NM 87110
Colliers Engineering & Design (Colliers) SUE & Survey	5051 Journal Center Blvd NE Unit 200, Albuquerque, NM 87109
Cartesian Surveys, Inc. (Cartesian) Survey	1005 21st St SE, Rio Rancho, NM 87124
Tierra Right of Way Services (Tierra ROW) ROW Acquisition	4107 Montgomery Blvd NE, Albuquerque, NM 87109
YeDoma Consultants, LLC (YeDoma) Geotechnical Engineering & Materials Testing	523 Louisiana Blvd SE, Albuquerque, NM 87108
MRWM Landscape Architects (MRWM) Landscape Design	1102 Mountain Rd NW, #201, Albuquerque 87102



WSP can Deliver Compliant Federal Funded Projects Our proposal features WSP's understanding of federal processes, risks, proposed mitigation strategies, and specific projects where we have worked with the DMD in the past.



# II.1 Provide an organization plan for management of the project.

The WSP team is comprised of individuals who are committed to exceptional client service and bring technical excellence to our team.

Our highly qualified team will be led by Dan Sims as Contract/Project Manager. Having performed both contract management and task order management on several COA On-Call contracts, Dan understands what is required to successfully complete projects with the City. In addition, we have selected task managers based on their knowledge and familiarity with the City's processes and requirements for project delivery. Dan and the task managers will be supported by team members with relevant experience, a history of schedule adherence, and a comprehensive understanding of the City's engineering processes and design requirements. Our task managers are experienced City PMs. The organizational chart below shows our key staff and technical discipline leads, as well as the lines of authority between them.

# II.2 Identify all consultants to be used on the project.

Our team organizational chart below describes the work to be performed by each subconsultant.



II.3 Provide qualifications of project team members shown in organization plan, including registration and membership in professional organizations.

# Dan Sims Contract/Project Manager (PM)



Dan will serve as Contract/Project Manager for our team. He understands the importance of delivering solid scoping and final design projects. His experience gained through 28 years in delivering local municipal projects of varying in scope and size, coupled with his keen dedication to client service, makes

Dan ideal for this contract. His understanding of the challenges and processes associated with federally-funded projects and T/LPA coordination will be

Highlights

Years of Experience: 28

**Professional Registration:** N/A

Education: BS in Management

Professional Memberships: ACEC COA Committee Member

an asset to the City on this contract. Dan also has experience delivering COA projects using standard practices such as the Complete Streets Ordinance and the Development Review Committee (DRC) and DMD requirements.

Relevant Project Experience | Role

- COA On-Call Engineering Services (3 contracts) | Project Manager
- 98th & Benavides Intersection Improvements | Project Manager
- Ladera Drive NW Improvements
   Phase II | Project Manager

### Roadway Team Members



# Dominic Montoya Deputy Project Manager & Transportation Planner



Dominic has 8 years of experience in transportation planning. His experience with Rio Metro RTD and the Mid-Region Council of Governments makes him acutely aware of the challenges and opportunities that come with delivering projects in the City of Albuquerque. He also has experience in environmental planning

while working alongside the NMDOT and other internal engineering disciplines

# Highlights

Years of Experience: 8

**Professional Registration:** N/A

**Education:** Masters of Civil Engineering; BS Science

to facilitate timely permits and clearances to allow for on-time project delivery. Dominic has been involved with numerous virtual public meetings to inform the general public and stakeholders of projects in their area and how they may be affected.

Relevant Project Experience | Role

- MRCOG 2017 Rio Metro On-Call Planning Services | Environmental Planner/GIS Specialist
- ABQ Ride Transit Feasibility Study | Transportation Planner
- NMDOT NM 31/128 Design Build | Public Involvement Support
- NM 500 Bridge Reconstruction | Public Involvement Support



Years of Experience: 8

Education: BS Civil

ITE New Mexico VP

Traffic Team Members

Risa Lujan, EIT

1 year of experience

MS Civil Engineering

• EIT 7547

**Professional Registration:** 

**Professional Memberships:** 

Highlights

NM PE 26583

Engineering

# Dominic Chavez, PE Traffic / Lighting Analysis & Design Lead



Dominic will serve as our Traffic / Lighting Analysis & Design Lead and has experience working with the City of Albuquerque. He has over 8 years of experience working with PROWAG curb ramp design, traffic signal design, lighting analysis and design, signing and striping design, geometric design, and

estimating quantities. Dominic's knowledge of the City's design standards and specifications will be invaluable on any On-Call projects.

### Relevant Project Experience | Role

- COA Citywide On-Call Engineering Services (4 contracts) | Traffic Designer
- Wells Park Lighting Improvements | Project Manager
- Southwest Mesa Lighting Improvements | Project Manager
- West Central Complete Streets | Traffic Designer

# Dustin Davidson, PE Drainage Analysis & Design Lead



Dustin has working experience in EPA SWMM, AHYMO, SRH-2D, WMS, HEC-HMS, HEC-RAS, FlowMaster, HY-8, and AutoCAD Civil 3D. He is well-versed in government guidelines and has a broad background in H&H modeling. Dustin previously worked with the COA prior to joining WSP and understands the goals, processes,

and challenges facing the Department of Municipal Development including maintenance, funding, and public input. His knowledge of the City's design standards and specifications will be invaluable for any On-Call projects.

# e NM PE 26703

Highlights

Years of Experience: 6

**Education:** BS Civil & Environmental Engineering

**Professional Registration:** 

**Professional Memberships:** ASCE Northern NM VP

### Relevant Project Experience | Role

- West Central Complete Streets | Drainage Engineer
- Chelwood Park Floodplain Study | Drainage Engineer
- Mountain View Roadway and Drainage Improvements | Drainage Engineer
- NMDOT On-Call Engineering Services (multiple contracts) | Drainage Engineer

### Drainage Team Members



### Nathan Abel, EIT

- 1 year of experience BS Civil
- Engineering EIT 1513926-500
- (Wisconsin)



# Jennifer Hyre Environmental & Public Involvement (PI) Lead



Jennifer is proposed to serve as our Environmental and Public Involvement (PI) Lead because she has over 20 years of experience facilitating public and stakeholder outreach. Jennifer understands the benefits of effective public involvement, from addressing individual concerns, to building relationships with

community leaders. She was formerly an Environmental Analyst with the NMDOT Environmental Bureau. Her expertise includes endangered species assessments, Clean Water Act planning/permitting, cultural resources management, controversial public involvement campaigns, and NEPA analysis.

### Relevant Project Experience | Role

- COA On-Call Engineering Services (multiple contracts) Environmental & PI Lead
- COA 12th Street and Menaul Great Streets Improvements | Environmental & PI Lead
- COA North 4th Street Sidewalk Improvements Environmental Lead

# Robert Ortiz, PE PIC & Construction Management Lead



Robert is proposed to serve as our PIC and Construction Management Lead because he has 39 years of experience in construction management, construction programs administration, and transportation project delivery in New Mexico. Robert served for 27 years within the construction

program of the NMDOT in roles ranging from Project Inspector, Project Engineer, to Deputy Secretary of Operations. He has experience in state and federal highway funding programs and requirements, as well as state and federal highway specifications administration and development.

### **Relevant Project Experience | Role**

- COA On-Call Engineering Services (multiple contracts) | PIC & Construction Management Lead
- COA Daytona Transit Facility Upgrades for Electric Buses | Assistant Project Manager
- AMAFCA Construction Management On-Call Services | Project Manager

# Construction Management | Accounts Payable & NMDOT Reimbursement Team Members



Certificate in Electro-Mechanical

Drafting

- Ernest Archuleta, PE 38 years of experience
- BS Civil Engineering
- NM PE 12314 ACI Certified
- PCI Cerfified
- Ivan Arrossa
  - 42 years of experience





### Highlights

Years of Experience: 20

**Professional Registration:** FAA Qualified Airport Wildlife Biologist

Education: Master's Certificate NEPA; BS Environmental Science & French

**Professional Memberships:** ACEC Governmental Affairs Committee Member

### Environmental & PI Team Members

### Lindsay Mitchell, RPA



- 7 years of experience
- BA Anthropology & History; MS Archaeology
- NM Archaeological **Investigation Permit**

### Highlights

Years of Experience: 39

**Professional Registration:** NM PE 12719

Education: BS Mechanical Engineering

**Professional Memberships:** ACNM



Page 5

# Meghan Myers, PE Structural Engineering Lead



Meghan is proposed to serve as our Structural Engineering Lead because she is a senior engineer with 15 years of experience in structural design. She has experience in the analysis and design of bridges, retaining walls, drainage structures, and various other structural design elements. Meghan has held roles of Project

Manager and Lead Structural Engineer on successfully completed task orders for on-call contracts and other major infrastructure improvement projects. Meghan thoroughly understands all phases of structural design and analysis. Highlights

Years of Experience: 15

Professional Registration: NM PE 24690

**Education:** MS, Structural Engineering; BS Civil Engineering

**Professional Memberships:** ACEC Young Professionals Committee

### Relevant Project Experience | Role

- COA North 4th Street Sidewalk Improvements | Structural Engineering Lead
- COA On-Call Engineering Services (multiple contracts) | Structural Engineering Lead
- NMDOT On-Call Bridge Design Services | Project Manager
- NMDOT NM 6 Rio Grande Bridge Replacement | Structural Lead

### Structural Team Members





- 5 years of
- experience
- MS Civil Engineering
- EIT 7474

# II.4 Provide unique knowledge of key team members relevant to the project.

Key Team Members	Unique Knowledge Relevant to the Project
Dan Sims	Dan's familiarity with the COA and T/LPA process from recent on-call contract experience provides the City a PM who knows how to prioritize your needs and what it takes to deliver transportation on-call tasks.
Dominic Montoya	Dominic has experience in transportation planning in the Albuquerque metro area and surrounding communities. He has been involved in Environmental planning efforts and numerous virtual public meetings.
Dominic Chavez	Dominic has worked on multiple projects for the COA and can provide the City with cost-effective solutions from his in-depth understanding of the traffic analysis requirements and City traffic design standards and specifications as outlined in the DPM.
Dustin Davidson	Dustin has worked on multiple roadway storm drain improvements projects and on-call tasks for the COA. He is familiar with the City's DMD and Hydrology Section review and approval process.
Jennifer Hyre	Jennifer can coordinate public involvement efforts beyond the average scope by engaging communities and gaining stakeholder consensus on challenging issues such as intersection configurations and traffic access virtually or in-person. She has led public involvement meetings both virtually (COVID-19-safe) and in-person on a variety of transportation infrastructure projects.
Meghan Myers	Meghan has led and delivered a variety of tasks on various statewide bridge and transportation on-call contracts. She is able to respond quickly to a variety of tasks to meet the City's needs.
Robert Ortiz	Robert can support the COA by providing construction management services, such as acting as the single point of contact for the contractor, providing recommendations on contractor's work and schedule, providing constructability reviews, administering project pay requests, and inspecting the contractor's work to verify compliance with plans and specifications.



# SECTION III RESPONDENT EXPERIENCE

III.1 Describe previous projects of a similar nature, including client contacts (with phone numbers), the year(s) services were provided, construction costs (if applicable) and a narrative description of how those projects relate to this project.

Knowledge and experience are the cornerstones for delivering successful projects. Working on City projects for over 28 years has allowed us to gain unparalleled understanding of the City's expectations for quality and responsiveness. Working on diverse projects and applying creative solutions while working in a collaborative team environment has been a key to our success in working with the City on many projects. A sample list of City projects our team has completed through current/previous City on-calls are presented in Table A and B, and following the table are three projects we chose to highlight in more detail.

# City of Albuquerque Citywide On-Call Engineering Services (6098.00)

TABLE A



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Coordination

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# City of Albuquerque Citywide On-Call Engineering Services (7525.00)

lay Funding

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	ipital (	eds A	eometi	gnal Li	orm D	DA/PR(	cycle l	d Docu	Instrue	ility C	M / WC	vironn	ıblic In	terager	Years of Services Provided: 2019-Present
On-Call Tasks:		Ž	ق	S	st	AI	B	Bi	ပိ	5	N N	풥	2	Ē	Construction Cost: Varies by Task
North 4 <sup>th</sup> Street Sidewalk Design	$\checkmark$		$\checkmark$		$\checkmark$	$\checkmark$				$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	Relevant Key Staff/Roles:
Stagecoach Traffic Calming Study		$\checkmark$													Dan Sims, PM Dustin Davidson,
St. Joseph's Pond					$\checkmark$					$\checkmark$					Drainage Design; Meghan Myers,
Complete Streets FY20							$\checkmark$							$\checkmark$	Structural Design; Jennifer Hyre, Env and Public Involvement Lead
Walter Storm Drain & Curb Ramps					$\checkmark$	$\checkmark$				$\checkmark$					
Wells Park Lighting & Pedestrian Improvements		<b>√</b>		<ul> <li>Image: A start of the start of</li></ul>						<b>√</b>			$\checkmark$		
Southwest Mesa Street Lighting		$\checkmark$		$\checkmark$						$\checkmark$					
Walter Street Signals				$\checkmark$		$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$					
Palomas Avenue Corridor Study	$\checkmark$		$\checkmark$												
Wells Park ADA Improvements (See next page for detailed description)				1			<	<	<	<			<b>√</b>		

TABLE B

**PROJECT RELEVANCE** 

Client Contact: Jennifer Kubica, CIP Program Manager, 505.768.3841

**COA** Transportation

**On-Call Contract** 

# City of Albuquerque Wells Park ADA Improvements



WSP is working with the City to deliver this high-profile project on an accelerated schedule. This project will improve pedestrian connectivity and safety within the Wells Park neighborhood. With over 115 existing curb ramps and 320 existing driveways that are not ADA compliant and gaps between stretches of existing sidewalk,

this project is updating all non-ADA-compliant infrastructure and providing sidewalk connectivity. WSP quickly delivered the first two phases of this project, with Phase 1 and Phase 2 already fully constructed.

PROJECT RELEVANCE

- COA On-call task
- Accelerated schedule
- ADA improvements

**Client Contact:** Jill Cuppernell, COA DMD, 505.768.3502

Years of Services Provided: 2020 - 2022 est.

Construction Cost: Phase 1 \$700K; Phase 2 \$1.2M

**Relevant Key Staff/Roles:** Dan Sims, PM; Andrew Sutliff, Roadway Design; Nicole Tsabetsaye, Roadway Design

# City of Albuquerque West Central Avenue Complete Streets Improvements



WSP is currently in the final design phase of the T/LPA project. With anticipation that this project will trigger economic growth and development westwards towards Albuquerque's Nine Mile Hill, this project began with the development of an over-arching vision for West Central that will "pave the way" as the first of many

expected improvements within the corridor and along this stretch of historic Route 66. Included with the project and based on the priorities of the DMD, this project will provide bicycle and pedestrian connectivity, access to ABQ Ride stops, traffic and pedestrian safety improvements, and the expansion of storm drainage systems.

### PROJECT RELEVANCE

- NMDOT T/LPA
- New storm drain
- Multi-modal connectivity
- Pedestrian safety enhancements

**Client Contact:** Bridgette Garrett, COA DMD, 505.768.3679

Years of Services Provided: 2019 - Present

#### Construction Cost: \$9.5M est.

Relevant Key Staff/Roles: Dan Sims, Roadway Design QC; Dustin Davidson, Drainage Design QC; Jennifer Hyre, Env/ PI Resources; Meghan Myers, Structural Design

# City of Albuquerque North 4th Street Sidewalk Design



WSP is designing pedestrian improvements along North 4th Street from Gene Avenue to Alamosa Road. Using Capital Outlay funding in a state-listed historic district, this process relied upon collaboration among our engineers and environmental staff to meet the applicable provisions of PROWAG, while developing Section 106-complaint

mitigation strategies to offset impacts to historic properties. This involved coordination with City Council staff and the New Mexico Historic Preservation Division to balance the preservation of the historic district while also provides for safe pedestrian access and mobility based on current and future needs.

### PROJECT RELEVANCE

- Capital Outlay funding in a state-listed historic district
- ADA Improvements

Client Contact: Bridgette Garrett, COA DMD, 505.768.3679

Years of Services Provided: May 2019 - Present

Construction Cost: \$450,000 est.

**Relevant Key Staff/Roles:** Dan Sims, PM; Jennifer Hyre, Environmental Lead; Nicole Tsabetsaye, Roadway Design Support



# III.2 Provide examples of project manager's city experience within the past five (5) years that serve to demonstrate the Project Manager's knowledge of City's procedures.

Project Manager, Dan Sims has extensive experience delivering COA projects over his 28-year career in New Mexico. His involvement in these projects has provided him a strong understanding of the COA's project development process, along with the NMDOT's T/LPA process and procedures. His experience with the City over the last five years includes:

COA Project	Role	Services Provided
Citywide On-Call Engineering Services 6098.00	РМ	PM, point of contact, and managed tasks including Wells Park, Martineztown and Duranes Ditch
Citywide On-Call Engineering Services 7525.00	PM	PM, point of contact, and managed tasks including Complete Streets Striping and North 4th Street Sidewalks
Citywide On-Call Engineering Services 7703.10	РМ	PM, point of contact, and managed tasks including Ladera Drive Revisions, Lomas and 14th Bicycle Crossing, and COA CADD Training
98th and Benavides Intersection Improvements	PM	PM for recently awarded intersection improvement project
Ladera Drive NW Improvements Phase II	PM	PM and Lead Roadway Designer from design through construction

# SECTION IV TECHNICAL APPROACH

# IV.1 Describe respondent's understanding of the project scope.

WSP's daily method of operation and foundations of improving people's lives is in line with **One Albuquerque**, the Mayor's vision of bringing the city together through action, diversity, and inclusion. We have a large, diverse team that can perform all the requirements of this contract in-house, except for specialty subconsultants to perform survey, SUE, ROW acquisition, geotechnical engineering, and landscape design. WSP also has additional capacity outside of our local office that can support City projects, if needed.

# Transportation Design

Our expertise in transportation design spans the full spectrum of project development. WSP has successfully provided quality and innovative engineering solutions on multiple COA On-Call contracts since 2007. This work has encompassed all types of transportation design, involving arterial, collector, local street designs, intersection improvement designs, roundabouts, geometric design, conceptual alternatives and final designs, 3D modeling, complete streets, traffic signal and lighting design, signing and striping design, onstreet bicycle lanes design, multi-use trail designs,

# and ADA compliance and design. Our attention to detail is unparalleled, particularly when retrofitting new standards to existing conditions.

# Traffic Engineering

Our team knows that traffic analysis has direct bearing on a design, from number of lanes to intersection configurations. We are skilled in all aspects of traffic analysis including highway capacity, signalized and unsignalized intersections, roundabouts, limited-access facilities, crash studies, and traffic signal warrants, traffic data collection, aerial camera survey, existing and future traffic operations, capacity and sensitivity analysis, safety and impact studies, signal warrant analysis and design, intersection/interchange configurations, signing and marking, lighting, FMS, ITS, MOT, transit, and roadway dieting. We understand the types of input data required to complete traffic analyses and are familiar with the methodology to collect traffic counts, signal timing, and crash data.

WSP will use Synchro with SimTraffic for signalized intersection analyses, Highway Capacity Software for unsignalized intersections, and SIDRA and RODEL for roundabout evaluations. Synchro will also be used to develop traffic signal system coordination and timing plans. If a complex simulation requires



public review of proposed solutions, WSP will use VISSIM, a traffic micro-simulation model. Our traffic engineers will ensure proper data inputs are used for all analyses and will include documentation of our methodology/results.

# Drainage Analysis & Design

On most projects, drainage design is a key element of the project that must be comprehensive for both existing conditions and proposed improvements. Knowledge of criteria and requirements paired with technical expertise is a must. WSP's drainage staff has the resources required to address all elements of a storm water design project, including hydrologic and hydraulic (H&H) modeling, sediment transport, water quality, low impact development (LID) methods, erosion control, bridge scour analysis, floodplain management, design plan development, and construction support. Our engineers have expertise in the following:

- Application of the latest H&H methodologies and software such as Rational Formula, AHYMO, HEC-HMS, FLO-2D, HEC-RAS, HEC-RAS 2D, SRH 2D, CulvertMaster, HY-8, and FlowMaster
- Design of storm drain systems using StormCAD, AutoCAD Civil 3D, and/or Microstation Inroads Storm and Sanitary software
- Sediment transport analyses using HEC-6
- Design of detention/retention ponds and underground storage chambers using HEC-HMS and Pondpack
- Floodplain management including development
   of CLOMR/LOMR's
- Knowledge of the Environmental Protection Agency's (EPA) National Pollutant Discharge Elimination System (NPDES), Storm Water Pollution Prevention Plans (SWPPP), MS4 Watershed Permit, and the development of associated required forms and plans

# Environmental Documentation

We understand that securing the environmental clearance for every project, while they may vary

in complexity, is the cornerstone for assuring the project schedule stays on track. WSP is adept at navigating through all phases of a project, from initial environmental planning through the multidisciplinary resource surveys and permitting needed for regulatory and agency requirements to receive final environmental approval. Our environmental team has the necessary expertise needed to secure the environmental clearance following all state and federal requirements. Our proven track record with both federal highway and state funding sources is unmatched.

WSP has strong positive working relationships with the key resource agencies that affect COA transportation projects. Working with these agencies on many project, we have proven out proficiency and knowledge of National Environmental Policy Act (NEPA) analysis and documentation, public involvement, Endangered Species Act agency compliance and mitigation strategy, Clean Water Act planning and permitting, hazardous materials assessments, Section 4(f) properties, National Historic Preservation Act Section 106, and state preservation laws.

# **Cultural Resource Permits**

WSP is permitted and qualified to complete cultural resources investigations that meet State requirements, federal requirements of NMDOT and FHWA, aiding to facilitate consultation with the New Mexico State Historic Preservation Officer (SHPO), federally-recognized tribes, and other stakeholders as needed.

# NMDOT Certifications

WSP understands the T/LPA process and the effort to obtain project certifications, including Environmental, Right-of-Way, Utility, ITS and Railroad as demonstrated on the West Central project. Our experienced environmental and roadway staff can also assist the City in obtaining certifications for projects not developed by our team.

# **Complete Streets**

WSP has extensive experience implementing the COA Complete Streets Ordinance on projects. Along



with the Ordinance, WSP follows PROWAG, AASHTO, and National Association of City Transportation Officials (NACTO) design guidelines for pedestrian and bicycle facilities design. These serve as guidelines for alternatives analysis where flexibility is needed to develop a design that is context sensitive, and balances engineering needs and constraints, historic preservation, environmental sustainability, and the creation of vital public spaces.

Our team has extensive ADA design experience and several avid cyclists that know first hand, the challenges cyclists encounter throughout City and the importance of considering cyclists in the complete street design.

# **Public Involvement**

WSP understands the benefits of effective public involvement, from addressing individual concerns to building relationships with community leaders. We are experienced in all aspects of scheduling and conducting public involvement meetings and are pioneers in the use of alternative format public meetings for infrastructure projects in New Mexico.

# Structural Analysis & Design

The WSP team has designed numerous retaining walls and structures throughout the State. In addition, we have designed traffic structures, nonstandard culvert design, barriers, structural details, structural material evaluation, and prepared Bridge Selection Reports and plans.We understand these assignments may include preliminary and final bridge design and plan preparation, evaluation and rating of existing structures, damage assessment and preparation of remediation recommendations, review of structural designs and plans, retaining wall design, and seismic screening. All work will be done according to COA and AASHTO standards.

# Geotechnical & Pavement Studies

We have included *YeDoma* as a subconsultant to provide geotechnical engineering, foundation analysis, flexible pavement design, rigid pavement design, earthwork construction, field investigations,

and materials testing, should these services be necessary.

# Construction Management & Inspection

WSP can provide a full range of review and inspection services on any construction project from an individual engineer or inspector to a full project management team with understanding of the federal and T/LPA process. The construction management group in our Albuquerque office has the depth of staff that allows us to efficiently fill all levels of inspectors, technicians, project managers, office managers, reimbursement specialists, and other skill needs on short notice.

The WSP team can provide constructability reviews by our expert construction management staff who know how lines on paper translate to actual constrction activities. We are qualified to assist the City with pre-construction activities such as bid reviews, pre-construction meetings, or independent plan reviews. WSP has provided the COA with construction management on the Daytona Transit Facility Upgrade, Gibson Boulevard Improvement, and Unser Boulevard SW construction projects.

# Location Surveys & ROW

We have included *Cartesian* and *Colliers* as subconsultants to provide a full spectrum of surveying services including platting actions, design data, site plans, plot plans, boundary surveys, asbuilt surveys, topographic mapping, ROW mapping, and legal descriptions. Cartesian has five field crews that are experienced with the efficient collection of accurate mapping measurements. Cartesian has two licensed surveyors and two drafter/managers in their local office, each with significant formal education in both surveying and civil engineering.

# Subsurface Utility Engineering (SUE)

We have included *Colliers* as a subconsultant to provide SUE services. Colliers has the geophysical equipment and experience to provide accurate SUE investigations from Level D records searches through Level A test holes. In addition to providing



SUE services, Colliers also has the expertise to provide state-of-the-art LiDAR surveys.

# IV.2 Describe how respondent plan to perform the services required by the scope.

Work Plan	Initiate Stakeholder Coordination	<ul> <li>Meet early and often with the City PM to clearly define the task scope, schedule, &amp; goals</li> <li>Identify WSP staff &amp; resources to successfully complete the task</li> </ul>
WSP	Prepare Scope of Work (SOW)	<ul> <li>Conduct a site visit &amp; research available data &amp; reports applicable to the task</li> <li>Prepare a scope of work, schedule, and cost proposal for review as quickly as possible - no longer than 10 days</li> </ul>
	Review of Scope by COA	<ul> <li>The City PM will review the proposed scope of work, schedule &amp; cost proposal</li> </ul>
	Finalize Scope	<ul> <li>Implement City PM comments on scope of work, schedule &amp; cost proposal</li> </ul>
	Fulfill Scope Requirements	<ul> <li>Work activities will commence upon receipt of a written notice- to-proceed (NTP)</li> <li>Tasks will be performed in accordance with COA standard specifications, engineering standards, &amp; federal, state &amp; local policies &amp; procedures</li> </ul>
	Monitor & Report on Progress	<ul> <li>The WSP PM will review the work in progress weekly</li> <li>Monthly progress reports will be prepared &amp; submitted to the City PM with an invoice of completed work</li> </ul>

Project success is measured by delivering a quality product on schedule and within budget. This requires a comprehensive plan, attention to detail, and commitment from the entire team to deliver quality work. This is the core of the WSP team's philosophy as demonstrated in past and current performance. WSP understands that there are several key factors to meeting the City's on-call needs which include:

- A comprehensive, multi-disciplined team
- Responsiveness to critical, fast-tracked projects
- Timely development of project scopes and fees
- Management of multiple concurrent tasks
- Close coordination to convey project status
- Monthly billing and progress reports
- Coordination with City Council and Stakeholders
- Monthly updates to the DMD on all on-call tasks
- Ensure engagement by all key City/Stakeholder staff at the scoping meeting to identify any questions or clarifications needed
- Research the need for external Stakeholder coordination for items such as necessary permits or impacts to shared infrastructure

### **Project Execution**

Our approach to proactively track the task assignments' schedule and budget is to identify and resolve issues and provide solid engineering solutions. The underlying success factor is open and effective communication coupled with engineering excellence. Our Project Managers and staff know that responsiveness to scope and fee requests are a top priority. WSP's typical amount of time to respond with a draft scope and fee is five to ten days, depending on complexity and amount of subconsultants on the task. We can process passthrough tasks even quicker, usually within four to seven days after the scope and fee is received from the subconsultant. We understand pass-through tasks are an important tool used by the City, and prioritize these the same as tasks that are assigned to us.

Following a NTP, WSP will implement a work and staffing plan to successfully complete the project. Common elements for a successful project include:

Assembling the Project Team - WSP will identify a Task Manager (TM) who will be supported by technical discipline Task Leads. The TM will lead day-to-day operations of the task, assure the task stays on schedule, control cost, and maintain close coordination with the COA PM and PM, Dan Sims. **Coordination** – WSP is accustomed to collaborating with clients, federal and state agencies, and subconsultants to achieve project success. We will coordinate with pertinent environmental agencies, SHPO, stakeholders, and the public as needed. WSP's New Mexico transportation team works almost exclusively with public agencies, which eliminates potential conflicts of interest when developers are affected by a project. Communication among the project team will be enhanced through:

- Conducting regular progress and issue resolution meetings to develop productive action plans
- Maintaining an Action Items list, with assignments and dates for completion
- Using multiple modes of communication to ensure the project team, stakeholders, and public are informed and able to provide input
- Respectfully requesting the stakeholders' decision-makers be involved with the project from the onset

Schedule Control – Efficient use of resources is particularly important for task order projects that have shorter lifecycles. A key component of our plan will be aligning necessary staff to meet the COA's delivery needs. Schedules will identify major work elements and key milestone dates. Critical to developing a realistic schedule is an accurate breakdown of the work tasks and understanding the dependencies between those tasks. We will implement the following strategies to monitor the schedule of On-Call tasks:

- Vet the project schedule with the COA PM before it is presented to the team
- Include major milestone submittals, review periods, and key design items such as the pothole request submittals and anticipated completion dates in the schedule
- Share the work plan with the team and identify the goals of every meeting
- Hold regularly scheduled project progress meetings. The schedule and action items reviewed, and status updates will be provided.

 Manage project risks proactively, including mitigation measures put in place to address any potential impacts to the budget or schedule

WSP will routinely monitor schedule and performance and will take corrective actions where needed.

**Cost Control** – Our team understands that COA faces public and political pressure to deliver projects quickly and cost-effectively. We are committed to effectively delivering projects in the most efficient means possible to benefit the traveling public. We use cost control techniques to manage project budgets. Effective cost control begins during the scoping stage of a project and continues through completion of work. Costs are monitored regularly and compared to the schedule and actual level of completion to verify budget adherence. This is further described in Section 5.1 of this proposal.

Quality Control – The COA's satisfaction is our highest priority. We follow a comprehensive quality control process that covers all aspects of our project delivery operations and meet the requirements of ISO 9001:2015. This rigorous international Quality Management System standard proves our ability to consistently offer a product that fulfills client requirements, as well as applicable statutory and regulatory requirements, based upon external audit. In practice, WSP has a well-established internal quality review process that is based on checks, backchecks, and verification of all project documents by qualified staff before submittal to COA. As PM, Dan is ultimately responsible for the quality of all the work and deliverables on this contract. WSP can provide QA/QC documents on any submittal, which should significantly reduce the amount of time required for the DMD/City PM plan review and approvals.



WSP will focus on the timely and accurate submittal of draft and final deliverables following the COA Milestone Submittal Checklist. As part of our ISO 9001 quality control process, a thorough review of all deliverables is performed and documented before submittal to the client. WSP's PMs develop a Project Management Plan (PMP) and Quality Control Plan which identify procedures the PM will use to accomplish specific tasks.

These plans requires checking and back-checking all deliverables to support a quality product. A qualified team member, not directly involved in the development of the project, will be assigned to the role of Quality Reviewer. This includes qualified personnel to perform detailed discipline reviews and overall "big picture" reviews to assure there are no discrepancies between the technical disciplines.

Our team brings added value to the City by implementing these QA/QC methods, offering the assurance that project needs have been clearly identified, appropriately addressed, and that quality design documents are produced.

# IV.3 Describe specialized problem solving required in any phase of the project.

State / Federal Project Development Process

We understand this on-call contract has a focus on NMDOT-Administered Capital Outlay Legislative Appropriated projects. WSP will work closely with the COA, NMDOT, and FHWA to ensure requirements of the T/LPA guidelines are followed and all required certifications are acquired including:

NMDOT Reimbursement/Accounts Payable Assistance - In speaking with COA management, we know that one of the challenges faced by DMD is getting NMDOT Reimbursement on federally funded projects. WSP's Construction Services team have assisted multiple agencies assemble the reimbursement requests for both monthly and final project payments.

The most important aspect of accounts payable on federally funded projects is to ensure all invoicing and documentation requirements are met and that the project checks all the boxes at every stage. **Construction Services/Management -** WSP's Construction Services team is well-versed in the requirements for T/LPA and federally funded projects. That includes expertise in using the B2Gnow and LCPTracker software. Our Construction Services staff have developed multiple federal reimbursement packages for agencies including projects we managed, and some where we assisted the agency after construction to meet compliance for reimbursement.

Project Management Augmentation - With the injection of federal money to municipalities, WSP understands the DMD's may have limited capacity to manage the number of projects being developed. WSP has the capacity to offer experienced support staff to COA to perform as an extension of COA staff in managing tasks during design and/or during construction. These staff are located in neighboring states (NM, CO, AZ. UT), and thus will not impact our local office's ability to deliver DMD projects. WSP can provide **construction management** augmentation services by providing inspectors, office technicians, schedule experts, project managers, and project engineers to supplement staffing on all levels. We currently provide staff augmentation to the NMDOT on projects statewide and maintain a deep well of qualified technicians that can be mobilized to fill any need. We have Project Managers in our Tempe and Tucson offices that have provided **Supplemental** Project Management support to Maricopa County and Arizona Department of Transportation on a part time basis to help the DOTs meet the project delivery expectations of stakeholders and the local communities.

BIL Grant Program Development / Program

Management - WSP can provide support to the City to help develop a program for Bipartisan Infrastructure Law (BIL) Grant funding. Our grant writing experts can assist the City in identifying and prioritizing projects that are most likely to qualify for Grants and to prepare the applications, and help to identify other funding sources that may be available to the City. WSP can assist with the procurement process through construction to ensure all requirements for the BIL Grant are met.

# V.1 Describe cost control and cost estimating techniques to be used for the project.

Cost Control of the Design Process WSP is fully committed to assist our project managers in meeting the needs of the client, by keeping each task and our deliverables on schedule and on budget. To assure projects stay on track, WSP has an extensive process to monitor all projects through the use of monthly reviews between the Project Manager, Project Accountants, and Project Delivery Managers. The goal of these monthly reviews is to help ensure projects are financially aligned with goals and milestones, and that quality reviews are occurring during the design and before submittals of all deliverables. The City will benefit from this process - as a financially healthy project reduces the risk for change order requests or amendments.

## Cost Control of the Construction Cost

Our goal is to provide an accurate engineer's estimate of probable cost which captures the full project scope and considers the COA's budget constraints. WSP will develop a sound, detailed design that is refined through constructability reviews and prepare thorough and complete construction documents that are clear in design intent and minimize risks to the contractor and protect the COA's interests. WSP will prepare an engineer's estimate at each design plan submittal. We will monitor construction market trends to include fluctuations in material and other costs into the engineer's estimate. We will include contingencies for unknowns, at higher percentages during early stages of the design. If estimated construction costs exceed the budgeted amount and cannot be addressed through design or process changes, the City PM will be notified, and we will assist in developing cost reconciliation strategies. One method of doing so is to identify "wish list" items vs. "must haves" and include items that will enhance the project by may not be necessary depending on funding. Another option is to include "bid alternates" in the bidding process.

# Cost Estimating Techniques

WSP understands the effects of the pandemic, and the current cost escalation challenges in the infrastructure market. Our team will use several sources to track and include current trends and pricing into our construction cost estimates. WSP will rely on the COA's most recent estimated unit prices for contract items, recent COA construction bid tabs, and current NMDOT average unit bid prices to support our cost estimates. Bids for recently let City, County, and NMDOT projects in the Albuquerque area will be reviewed, providing a basis for estimating unit prices and construction costs. We recognize these construction costs fluctuate constantly and best practices require a thorough and proactive approach for each construction cost estimate.

Name of Project	Month & Year Bid	No. of Bids	Final Cost Est.	Bid Award Amount
NM 528, MP 8.3 to MP 10.0	April 2021	4	\$22,208,000	\$26,797,000
I-25/MLK Off Ramp Improvements	October 2021	2	\$2,508,124	\$2,993,597
12th Street & Menaul Great Streets Improvements Phase III	April 2020	2	\$4,749,240	\$4,658,898
NM 6 Bridge Replacement	August 2019	3	\$20,467,664	\$18,490,159

# V.2 Provide comparisons of bid award amount to final cost estimate for projects designed by the respondent during the past two (2) years.



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 Name City Wide On-Call Engineering Services

Project Number7206.00, 7207.00, & 7208.00
Date
Signature Roht O Out
Title Principal-In-Charge
STATE OF NEW MEXICO )
) \$\$
COUNTY OF BERNALILLO )
The above Certification was subscribed before me, the undersigned authority, by: <u>Robert</u> Orfiz
who swore upon oath that this Certification was signed of free act and deed, on this
27th dayof May , 2022
AA
(Notary Public) My commision expires: 12/06/2025
JORGE CERVANTES Notary Public - State of New Mexico Commission # 1136209 My Comm. Expires Dec 06, 2025



# Pay Equity Reporting Form



City of Albuquerque Www.cabq.gov



Bernalillo County Www.bernco.gov



Water Authority www.abcwua.org

**Company Details** 

Company Name		WSP USA Inc		Mailing Address			2440 Louisiana Blvd Suite 400 Albuquerque, NM 87110			
Pho	ne	714-564-2750								
Ema	il Address	Oscar.K.Martinez@wsp.com		NM Employees?			yes			
Job	Category				No. Femal	es	No. Males	Gap (Abs. %)		
1.1	Exec/Senior	Level Officials/Mgrs			1		2	33.10%		
1.2	First/Mid Lev	el Officials/Mgrs			2		9	15.04%		
2	Professionals	3		10		16	14.59%			
3	Technicians			2		7	15.15%			
4	Sales Worke	rs		0		0	N/A			
5	Office and Ac	dmin. Support		0	2		N/A			
6	Craft Workers	s (Skilled)			0		0	N/A		
7	Operatives (S	Semi-Skilled)			0		0	N/A		
8	Laborers (Un	skilled)		0	0		N/A			
9	Service Work		0		0	N/A				
	Overall Total				15		36	15.93%		

Total # of Females (all categories)	15	Total # of Males (all categories)	36
Total # Female Only Job Categories	0	Total # Male Only Job Categories	1
Total # Part Time Females	1	Total # Part Time Males	8
Female % Workforce	29.41%	Male % of Workforce	70.59%
Total # Employees	51	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.

### Oscar K Martinez

May 25, 2022

Name and Title

Oscar K Martinez, Consultant, HR Compliance

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.

Certified - Overall Gap is 0%

Gender Pay Equity Representative

Uncertified - Overall Gap is more than 0% Company ID: 9



# **\\**\\

WSP USA Inc. 2440 Louisiana Blvd NE Suite 400 Albuquerque, NM 87110

505.881.5357 www.wsp.com

About WSP USA Inc.

WSP USA is the U.S. operating company of WSP, one of the world's leading engineering and professional services firms. Dedicated to serving local communities, we are engineers, planners, technical experts, strategic advisors, and construction management professionals. WSP USA designs lasting solutions in the buildings, transportation, energy, water, and environment markets. With more than 12,000 employees in over 200 offices across the U.S., we partner with our clients to help communities prosper.

# ONE ALBUQUE RQUE

ENGINEERING CONSULTANTS FOR

# CITY WIDE ON-CALL ENGINEERING SERVICES

PROJECT NO. 7206.00, 7207.00, AND 7208.00 JUNE 1, 2022





9600 SAN MATEO BOULEVARD NE | ALBUQUERQUE, NM 87113 | P 505.821.4700

June 1, 2022 Myrna Marquez, Administrator City of Albuquerque Selection Advisory Committee Department of Municipal Development One Civic Plaza, Albuquerque/Bernalillo County Government Center Albuquerque, New Mexico 87102

#### RE: Request for Proposals (RFP) for City Wide On-Call Engineering Services, Project No. 7206.00, 7207.00, and 7208.00

Dear Myrna and Members of the Selection Advisory Committee:

Parametrix has worked in partnership with the City of Albuquerque since 2015 on more than 80 on-call tasks under four on-call transportation and drainage engineering contracts, in addition to more than 25 projects under individual contracts. Like many municipalities around the country, the city is responding to increased pressures from growth, aging infrastructure, more extreme weather, and construction cost increases due to inflation and labor and supply shortages. For years, we have worked with the Department of Municipal Development (DMD) to provide the expertise needed to complete tasks of all sizes and complexities.

Our team has the necessary knowledge and expertise in all of the service areas identified in the RFP, and we are well-versed in city design requirements, guidelines, and processes. We understand the unique needs and challenges that the city faces, and our staff has a long track record of working with you to deliver a wide range of projects, including those that have federal funding, have tight timelines, or are controversial.

We enjoy the diverse nature of the tasks and the challenges on-call contracts provide, and we have a proven track-record providing on-call services to the city, New Mexico Department of Transportation (NMDOT), Bernalillo County, and the Mid-Region Council of Governments (MRCOG)/Rio Metro. We approach every assignment with enthusiasm, and we are committed to working with city project managers to develop and deliver scopes, schedules, and budgets that meet the City's needs and provide value.

We are proud of our team's long history of providing innovative solutions and quality service to the city. We look forward to continuing this relationship in the future. We have reviewed the city's Standard Agreement, and we agree to the terms, conditions, and insurance requirements. Thank you for considering the Parametrix team. If you have any questions, please let me know.

Sincerely,

**Parametrix** 

Chris Baca, PE Vice President direct | 505.998.5580 cell | 505.235.2792 <u>cbaca@parametrix.com</u> DUNS #128704439

inspired people, inspired solutions, making a difference,



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Parametrix



# General Information

#### 1. Name, Address, Telephone Number, and Year of Establishment

Parametrix is a 100-percent employee-owned firm dedicated to providing high-quality, client-oriented engineering, planning, and environmental consulting services to a diverse range of clients and industries. Established in 1969, Parametrix currently has 14 offices across six western states and over 600 employees. The Albuquerque office of Parametrix was established in 2001, and it is located at 9600 San Mateo Boulevard NE, Albuquerque, New Mexico 87113. Our phone number is 505.821.4700.



#### 2. Number of Employees, Technical Disciplines, Registration, and Registration Numbers

The Parametrix New Mexico office consists of more than 25 transportation engineers and planners, surveyors, environmental specialists, and administrative staff. The engineering and planning side of our office includes transportation engineers, structural engineers, drainage engineers, surveyors, and



all modes of transportation, including streets, highways, bicycle/trail facilities, transit, and rail. Our environmental staff includes National Environmental Policy Act (NEPA) specialists, archaeologists, biologists, architectural historians, and ethnographers. In addition to our technical expertise, several of our engineers and planners are especially adept in working with the public, stakeholder groups, and elected officials. This experience makes the difference in project success when projects extend from the technical arena to the public and political arena. In addition, our mix of technical staff from different disciplines working together creates an atmosphere of collaboration that results in better project plans and designs, thus meeting the needs of the city, as well as those of local elected officials, property owners, and the public. The registered professional engineer who will be in direct responsible charge of the

work for this contract is **Zach Troncoso, PE** (NMPE #25312). Our registered professional surveyor is **Ruan Bacigalupa, PS** (NMPS #11462). **Chris Baca, PE**, an officer of Parametrix and a New Mexico PE, will be responsible for contract administration.

### 3. Where the Services will be Performed

Services provided for this contract will be performed from the Parametrix Albuquerque office. Subconsultants Horrocks Engineers, Lee Engineering, Terracon Consultants, and Consensus Planning will also provide services from their Albuquerque offices.

Parametrix has extensive experience working with the city. This includes several City of Albuquerque On-Call Transportation Engineering contracts and numerous standalone engineering services contracts. **This experience provides us with a strong understanding of city staff, processes, and procedures.** 

Recent projects include the following:

- Unser Boulevard Gap Widening Project
- Balloon Fiesta Park/I-25 Southbound Access Modifications
- Zuni Road Improvements
- Paradise Boulevard Roadway Improvements
- Irving Boulevard
- Albuquerque City-Wide On-Call Engineering Services, Transportation and Storm Drainage, PN 6097 and PN 7536



## SECTION II Project Team Members

# 1. Organization Plan for Management of the Project

Parametrix will be responsible for the overall contract, providing project management and serving as the interface between the consultant team and the city. Parametrix will also be the technical lead for roadway/street, traffic/signals, and bikeways/trails design; drainage analysis and design; environmental analysis and documentation; right-of-way (R/W) mapping; surveying; public involvement; agency coordination; and overall design coordination. Activities performed by subconsultants will include subsurface utility engineering, geotechnical engineering, traffic data collection, construction management, and landscaping design.

The type, size, and complexity of tasks performed under this on-call contract will vary. Some assignments, such as the Balloon Fiesta Park/I-25 Southbound Access Modifications Study and Design project we performed under our existing on-call contract, can be relatively large and may involve multiple jurisdictions and relatively complex issues. Other assignments, such as the Abajo Road Hammerhead Turn-Around task that we recently completed for the city, are straightforward. To account for this variability, we have organized our proposed team into project managers and minor task and support staff. Our project managers include six experienced engineers and planners with a variety of technical abilities. These individuals have the expertise to take on just about any project the city may assign to our team. However, not every assignment requires this level of expertise or the labor cost associated

with senior staff. For this reason, we also have ten mid-level and junior staff with the ability to complete smaller, less complicated assignments under the oversight and direction of our overall contract manager and/or other senior staff.

Some assignments can have technical, political, and/or coordination issues that require extra support or involvement. To accommodate these situations, we have two senior advisors who will provide additional support to the city project manager and our project teams on assignments. Chris Baca and Dave Pennington have helped the city and other agencies advance some of the most challenging projects in New Mexico, and they are adept at working through sensitive and challenging projects.

The staff included in our proposal, their expertise, and their respective roles are shown in Figure 1.

#### 2. Consultants to be Used on the Project

To provide a team that can offer the full range of services likely to be assigned under this contract, Parametrix has partnered with specialized firms to provide support. Our proposed subconsultants and their roles are as follows:

- Terracon Consultants, Inc. Geotechnical Engineering
- Lee Engineering Traffic data collection and support in signal timing and Intelligent Transportation Systems (ITS)
- Horrocks Engineers, Inc. Subsurface Utility Engineering (SUE) and Construction Management
- **Consensus Planning** Landscape Design

#### 3. Qualifications of the Project Team Members

The individuals included in our proposal have experience working with the city on prior City Wide On-Call Engineering Services contracts, as well as various other city projects. The qualifications for each member of our proposed team are summarized below.

### ZACH TRONCOSO, PE



CONTRACT MANAGER I ROADWAYS/ COMPLETE STREETS/TRAILS NMPE #25312 BS, Civil Engineering, 2014 Zach will provide

overall project management for this contract, as well as major task management for roadway, complete street, and trail projects. He is currently leading two city on-call engineering services contracts. In this role, he has worked closely with the city's project manager and is responsible for scoping and managing tasks. Zach understands the importance of communication, and he will keep the city's project manager and task manager up to date on the status of work efforts. On the technical side, his experience includes traffic analysis, roadway design, bike/trail design, cost estimating, bid documentation, traffic control plans, and public involvement. Zach's relevant experience with the city includes his role as project manager and/or project engineer on the Alameda Drain and Trail Project, Balloon Fiesta Park I-25 Southbound Access Project, University Boulevard Widening Project, Rio Grande Feasibility Project, Unser Boulevard Gap Widening Project, Uptown Improvements, and the Louisiana Boulevard/ Natalie Avenue HAWK Signal.

### ENGINEERING CONSULTANTS FOR CITY WIDE ON-CALL ENGINEERING SERVICES

PROJECT NO. 7206.00, 7207.00, AND 7208.00







#### **CHRIS BACA, PE**



### PRINCIPAL-IN-CHARGE | SENIOR ADVISOR NMPE #12133 BS, Civil Engineering, 1988

Chris is a vice president of Parametrix and has the authority to bind the company, and allocate staff resources

to meet the city's goals of schedule, budget, and quality. His expertise lies in transportation planning and analysis, location/environmental corridor studies, geometric design, highway and roadway design, signal and lighting design, and construction phasing and traffic control planning. Examples of Chris' experience with city projects include managing and/or directing several City Wide On-Call Engineering Services contracts, the Unser Boulevard Gap Widening Project, and Balloon Fiesta Park I-25 Southbound Access Modifications. He has also managed on-call contracts with NMDOT and MRCOG that included projects in the Albuquerque area. Chris is active in the American Society of Civil Engineers (ASCE).

#### **DAVE PENNINGTON**



SENIOR ADVISOR BS, Biology, 1980 | Graduate Studies, Community and Regional Planning and Environmental Mgmt. Dave will provide advisory services for tasks involving planning phase work and environmental projects requiring specialized planning expertise or that require higher level involvement with elected officials and/or potential public controversy. He has 37 years of experience, and he has worked on dozens of projects for the city over his career. He serves as a senior advisor and technical resource on our current on-call contracts with the city, is the contract manager for our 2021 On-Call with MRCOG, and is a project manager for contracts with NMDOT. He recently completed the Gibson Boulevard (San Mateo Boulevard to Louisiana Boulevard) Improvements project in support of the Gibson Health Hub, and the San Jose Neighborhood/Railyard Study prepared for Council Services.

#### **JIM BUCKMAN, PE**



BRIDGES | STRUCTURES NMPE #13062 MS, Structural Engineering and Mechanics, 2002 | BS, Civil Engineering, 1991 Jim will be responsible for tasks requiring

structural analysis and

design. Jim has 31 years of experience managing and designing bridge, roadway, drainage, and utility projects, and he has experience with a variety of structure types, including bridges, retaining walls, and box culverts. He has been responsible for multidisciplinary projects from planning through construction. Examples of his recent city experience include the Marquette Avenue Railroad Crossing, Alameda Drain Trail, Daytona CNG Monitoring and Electric Bus Charging Facility for ABQ RIDE, Arroyo Borealis Pedestrian Bridge, and several drainage tasks supporting the construction of the ART project.

#### **KEN MURPHY, PE**

### CONSTRUCTABILITY | QC NMPE #14713

#### BS, Civil Engineering, 1995

Ken has 27 years of transportation engineering experience, including pavement design, project development and



roadway design, materials sampling and testing, construction and contract management, highway and bridge maintenance, Tribal/Local Public Agency (T/LPA) oversight, and quality program development and implementation. He has on-call task experience with the city that includes quality control (QC) review of Design Analysis Reports (DAR) for the West Central and the McMahon Widening Project. He has also provided QC review of plans for Westside Boulevard Widening Project, McMahon Widening Project, and ADA/ PROWAG improvements in the downtown area.

#### **STEPHANIE MILLER**



# TRANSPORTATION PLANNING

BA, Biology, 1995

Stephanie is a project manager, transportation planner, and communications specialist with more than 25 years of

experience delivering transportation projects and planning studies that comply with local, state, and federal requirements. She is skilled



at developing informative DARs and delivering projects that meet NMDOT requirements, including location study procedures (LSP) and T/ LPA Handbook Procedures. In addition, Stephanie has extensive experience facilitating meetings, building consensus, and developing approaches and materials to convey technical information to the public. Her recent work for the city includes serving as the project manager for the Uptown Intersection Improvements Project, leading the development of the DAR for the Unser Boulevard Gap Widening Project, and supporting the development of the Phase I-A/I-B Report and Interstate Access Change Request (IACR ) for the Balloon Fiesta Park I-25 Southbound Access Modifications Project.

#### **JEFF FREDINE**



ENVIRONMENTAL | PI MA, Anthropology, 1997 | BA, Anthropology, 1993 | Graduate Certificate, Historic Preservation and Regionalism, 2008 Jeff will be responsible for preparing environmental documents and

obtaining environmental certifications for this contract. He will also help coordinate public involvement needs, as needed. Jeff has 27 years of experience in all local, state, and federal environmental and cultural resource laws, including NEPA, the National Historic Preservation Act, the Clean Water Act, and the Endangered Species Act. Jeff has extensive experience implementing public outreach efforts and developing categorical exclusions and environmental assessments for NMDOT and other agencies, he was a lead author of the 2015 update to NMDOT LSPs, and he is proficient in the requirements of the T/LPA process. Recent examples of his experience on projects in Albuquerque and the surrounding area include the environmental clearances for the Balloon Fiesta Park I-25 Southbound Access Modifications Project, the design-build project for I-25 improvements at the Comanche and Montgomery interchanges, and the Double Track and Centralized Traffic Control Project for the Rail Runner through Albuquerque.

#### SARA LAVY, PE



### SURFACE WATER | DRAINAGE NMPE #15092 BS, Civil Engineering, 1995

Sara will be responsible for projects requiring drainage analysis and design. She

has 26 years of experience, and she is skilled in hydrologic modeling of sites, including upstream drainage basins using AHYMO, HEC-HMS, and other accepted methods. She is also adept at drainage design for roadway, trail, and development sites. Sara has also prepared numerous FEMA Letters of Map Revision to remove floodplains from projects, and she has prepared and analyzed Best Management Practices for Stormwater Pollution Prevention Plans (SWPPPs) required by EPA permitting. Her recent city experience includes the drainage analysis for the University Boulevard Widening, Alameda Drain Trail, Rio Grande ADA Improvements, and Barstow/ Alameda Intersection Projects. Sara is an active member of ASCE.

STAFF   ROLE   REGISTRATION   EDUCATION	UNIQUE CAPABILITIES	RELEVANT EXPERIENCE
CHARLES ALLEN, PE, PTOE TRAFFIC/SAFETY PTOE #3904 MS, Civil Engineering, 2008 BS, Civil Engineering, 2007	<ul> <li>Specialized experience in traffic simulation, traffic forecasting, crash data analysis, and GIS mapping</li> <li>Proficient with the latest versions of traffic simulation programs, Synchro/SimTraffic and VISSIM</li> </ul>	<ul> <li>Rio Grande Boulevard/ Mountain Road Roundabout Feasibility Analysis</li> <li>Eagle Ranch and Irving Traffic Safety Study</li> <li>Natalie Avenue at Louisiana Boulevard Pedestrian Safety Study</li> </ul>

### FIGURE 2. MINOR TASKS AND SPECIALIZED TECHNICAL SUPPORT

### ENGINEERING CONSULTANTS FOR CITY WIDE ON-CALL ENGINEERING SERVICES

PROJECT NO. 7206.00, 7207.00, AND 7208.00



STAFF   ROLE   REGISTRATION   EDUCATION	UNIQUE CAPABILITIES	RELEVANT EXPERIENCE
CARLOS LICON, EIT ROADWAY DESIGN MS, Civil Engineering, 2019 BS, Civil Engineering, 2017	<ul> <li>Experience with traffic control plans for NMDOT/TLPA projects</li> <li>Assists with design plan production, cost estimates, design calculations, data collection, and technical reports</li> </ul>	<ul> <li>Rio Grande Boulevard/ Mountain Road Roundabout Feasibility Analysis</li> <li>Eagle Ranch and Irving Traffic Safety Study</li> <li>Natalie Avenue at Louisiana Boulevard Pedestrian Safety Study</li> </ul>
KASEY GOODEN, EIT ROADWAY, TRAIL, AND SIGNAL DESIGN/TRANSPORTATION PLANNING BS, Civil Engineering, 2019	<ul> <li>Specialized experience with lighting analysis and design, complete streets design, and pedestrian trail design</li> <li>Assists with design plan production, cost estimates, design calculations, data collection, and technical reports</li> </ul>	<ul> <li>Balloon Fiesta Park I-25 Southbound Access</li> <li>Gibson Boulevard Pedestrian Safety Study</li> <li>Alameda Drain Trail Project</li> </ul>
ALEXIS ANGELES, EIT ROADWAY, TRAIL, AND DRAINAGE DESIGN BS, Civil Engineering, 2021	<ul> <li>Experience with traffic signal design and cost estimating for city and NMDOT facilities</li> <li>Lighting analysis and design for roadways</li> </ul>	<ul> <li>Alameda Drain Trail</li> <li>Rio Grande/Alhambra Roundabout Design</li> <li>Unser Boulevard Gap Widening</li> </ul>
DARRYL DEL FRATE ROADWAY, TRAIL, AND DRAINAGE DESIGN/ INFRAWORKS/VISUALIZATIONS/GIS AAS, Geographic Information Technology, 2010 AA, Anthropology, 2017	<ul> <li>Uses Autodesk and ESRI software to create accurate drawings, plan sets, cartographic products, and digital models</li> <li>Experienced with advanced corridor modeling methods</li> </ul>	<ul> <li>Unser Boulevard Gap Widening</li> <li>Technical Support for Bio Park Trail</li> <li>98th and Gibson Intersection Project</li> </ul>
RUBEN DIAZ, PE BRIDGE/STRUCTURE DESIGN NMPE #26672 MS, Structural Engineering, 2016 BS, Civil Engineering, 2014	<ul> <li>Structural engineer experienced in bridge design, inspection, and load rating</li> <li>Experience includes steel, timber, and concrete structures</li> <li>Proficient with RC PIER, PGSuper, RISA 3D, SAP2000, and STAAD software</li> </ul>	<ul> <li>Alameda Drain Trail</li> <li>Pedestrian RAISE Grant Application</li> <li>Bridge Boulevard Ornamental Foundations</li> <li>NM-22/SP 88 Interchange</li> </ul>
TYLER PENNINGTON TRANSPORTATION PLANNING/GIS/NOISE ANALYSIS/DRONE IMAGERY BS, Biology, 2019	<ul> <li>FAA remote pilot certified for drone usage</li> <li>Experience providing noise collection, analysis, and modeling for roadway projects</li> <li>Experience in traffic and crash data collection</li> </ul>	<ul> <li>Railyard Noise Assessment for San Jose Rail Yards</li> <li>Gibson Boulevard Pedestrian Safety Study</li> <li>Unser Boulevard Gap Widening</li> </ul>
RUAN BACIGALUPA, PLS SURVEY AND R/W MAPPING NMPLS #11462 Certificate, Civil and Map Drafting Technology	<ul> <li>Provides R/W surveys and determinations</li> <li>Experienced in preparing legal descriptions, monumentation maps, and access control plans</li> <li>Knowledge of city and NMDOT R/W processes and procedures</li> </ul>	<ul> <li>Rio Grande Feasibility Study</li> <li>Uptown Pedestrian Improvements</li> <li>Barboa Estate</li> <li>Westway Hill Subdivision</li> </ul>
#### ENGINEERING CONSULTANTS FOR CITY WIDE ON-CALL ENGINEERING SERVICES

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STAFF   ROLE   REGISTRATION   EDUCATION	UNIQUE CAPABILITIES	RELEVANT EXPERIENCE
RANDY HEWITT, PLS SURVEY AND R/W MAPPING NMPLS #14730 Certificate, Civil and Surveying Technology BA, Geography, 1986	<ul> <li>Provides R/W surveys, topographic surveys, and project control</li> <li>Knowledge of city and NMDOT R/W processes and procedures</li> </ul>	<ul> <li>Rio Grande Feasibility Study</li> <li>University Boulevard Widening</li> <li>Balloon Fiesta Park I-25 Southbound Access</li> <li>Zuni Road Improvements</li> </ul>
WAYNE SULLIVAN DYNAMIC/STATIC VISUALIZATIONS College Coursework, Photography, and SharePoint Development	<ul> <li>Specializes in producing 3D project visualizations for alternative analysis, public outreach, and stakeholder engagement</li> <li>Pioneered real-time interactive visualization systems using video game technology</li> </ul>	<ul> <li>Unser Boulevard Gap Widening</li> <li>Pedestrian RAISE Grant Application</li> <li>I-40 Tramway to Atrisco and NM 500 Corridor Study</li> </ul>

#### SUBCONSULTANTS

We have enlisted the support of four firms to meet the needs of this contract. Parametrix has worked with all these firms for many years; we trust their work quality and ability to meet schedules.

#### **TERRACON:** Geotechnical Engineering

Terracon will provide geotechnical investigations, field and laboratory testing and analysis, trail pavement design, and Initial site assessments for hazardous waste investigations, as needed.

#### **MIKE ANDERSON, PE**

#### NMPE #12132

#### MBA, Business Administration, 2013 BS, Geological Engineering, 1986

Mike will oversee geotechnical engineering work. His group has extensive experience providing geotechnical investigations and analysis to the city. Their experience includes on-site observation and monitoring; construction quality control and quality assurance programs; field and laboratory testing; and analysis, construction material selection, compatibility and acceptability, pavement materials engineering, and construction management. Recently, Terracon has provided geotechnical services for the Unser Boulevard Gap Widening Project and the Uptown Intersection Improvements.

#### LEE ENGINEERING: Traffic Data Collection/ ITS Support

Lee Engineering will provide traffic counts for projects involving analysis of traffic operations. Lee will also support the team in the preparation of signal timing plans and general ITS analysis and design.

#### PAUL BARRICKLOW, PE, PTOE

#### MPE #17744 | PTOE #1885

#### MBA, Business Administration, 2003 | BS, Civil Engineering, 1999

Paul has over 18 years of experience in traffic engineering and transportation planning. He has worked on many projects for the city, and he understands their practices and procedures, as well as the various personnel in the traffic group of DMD.

#### HORROCKS: Construction Management/SUE

Horrocks will provide SUE and investigations and construction management (CM) services. They use the latest technology to perform detailed SUE investigations and to provide a full range of CM services. Recently, Horrocks has provided SUE services for the Unser Boulevard Gap Widening project and the Uptown Intersection Improvements.

#### HABIB ABI-KHALIL, PE

#### NMPE #13475

#### BS, Civil Engineering, 1990

Habib will oversee SUE and CM services provided by Horrocks. He has 28 years of transportation engineering experience, including roadway construction, roadway maintenance, engineering support, technical support, bridge maintenance, safety operations, equipment management, administration operations, and quality management.



#### CONSENSUS PLANNING: Landscape Design

Consensus Planning is a planning, landscape architecture, and urban design consulting firm located in Albuquerque. They have provided landscape architectural services for streetscapes, parks, and recreational facilities to many communities.

#### **KEN ROMIG, ASLA**

#### MCRP, Landscape Planning, 1998 BA, Philosophy and Fine Art, 1994

Ken has more than 21 years of experience as a registered landscape architect working in the arid southwest on streetscape, park, trail, institutional, and commercial projects that range from small parcel development to hundreds of acres. Ken's expertise is in master planning, design, development, and coordination of landscape design efforts for clients and communities that respond to community identity with imaginative design solutions. Ken has worked on the Alameda Drain Trail Master Plan and three phases of design and construction with Parametrix.

#### 4. Unique Knowledge of Key Team Members Relevant to the Contract

Our team offers the following unique knowledge that provides us with the skills needed to successfully deliver projects and provide additional value to the city under this on-call contract:

# EXPERIENCE WORKING WITH AND IN THE CITY OF ALBUQUERQUE

Since 2015, Parametrix has managed more than 80 on-call assignments from our four on-call engineering services contracts, in addition to more than 25 projects under individual contracts. As such, our team has the proven capability to successfully manage a widevariety of task assignments simultaneously due to our extensive experience and deep bench of staff. Our ongoing work with the city demonstrates our ability to successfully manage projects from planning through construction, and all of our key team members have hands-on knowledge of city processes and procedures, including design requirements in the city's Development Process Manual (DPM), using city specifications and standard drawings, the city's Design Review Committee (DRC) process, and construction contracting.

Our contract manager, Zach Troncoso, has managed our most recent on-call contracts with the city. Our proposed project managers, including Jim Buckman, Sara Lavy, Stephanie Miller, Jeff Fredine, and Ken Murphy, have oncall experience working with the city. In addition, Chris Baca and Dave Pennington bring decades of experience working for the city and will serve as strategic advisors, making certain that our team exceeds city expectations.

#### EXPERIENCE PROVIDING ON-CALL SERVICES

In addition to the multiple task orders the Parametrix team has delivered for the city, our team and project managers have extensive experience providing on-call services to other clients, including Bernalillo County, MRCOG, and NMDOT. Our performance on these oncalls has resulted in repeat contracts, which shows that we understand the nature of on-calls and how to be responsive and work effectively with a variety of task managers and agency staff. In addition, our experience working with these nearby agencies, including Bernalillo County, MRCOG, and NMDOT District 3, helps us keep the pulse on trends, challenges, and issues affecting transportation and construction projects in the area. Zach will manage the overall contract, and Parametrix will rely on our deep bench of engineers, surveyors, planners, and environmental staff to manage individual tasks. This will allow us to respond quickly to best meet the unique needs of each project.

#### EXPERIENCE WITH FEDERAL AND STATE FUNDING AND APPROVAL PROCESSES

Our team members, including Chris, Dave, Zach, Stephanie, Ken, Jim, Sara, and Jeff, have extensive experience working with the city to deliver projects that must follow federal and state requirements through the NMDOT. We are currently working with the city to deliver federally funded projects for the Unser Boulevard Gap Widening, Uptown Intersection Improvements, and Balloon Fiesta Park I-25 Southbound Access Modifications. Our work has involved following state and federal processes including the following:

- Requirements identified in the Tribal/Local
   Public Agency Handbook
- Planning studies following NMDOT's LSP
- Development of IACRs
- NEPA documentation, including categorical exclusions (CEs), environmental assessments (EAs), environmental impact statements (EISs), noise studies, and cultural and natural resources documentation
- Processes described in the NMDOT Design
   Manual
- Developing R/W maps and obtaining R/W approvals
- Obtaining required certifications, including those needed for R/W, environmental, utilities, ITS, and railroads



Not only does our team have experience with these processes, in many cases, our team members developed the guidance. Dave Pennington and Jeff Fredine developed the LSP, and Chris Baca and Stephanie Miller developed *NMDOT's Design Manual*. In addition, Ken Murphy served as a NMDOT District Engineer for District 3, and Ruan Bacigalupa brings decades of experience mapping existing and proposed R/W and working with NMDOT to obtain R/W certifications.

# EXPERIENCE COORDINATING WITH KEY STAKEHOLDERS AND THE PUBLIC

Chris Baca and Dave Pennington have decades of experience working with stakeholder groups to reach consensus on project solutions that meet the needs of both the implementing agency and the affected stakeholders. We use a variety of tools, including presentations, handouts, informational flyers, websites, displays, briefing materials for elected officials, social media, and GIS story maps to communicate with the public.

# EXPERIENCE WITH COMPLETE STREETS AND ACTIVE TRANSPORTATION DESIGN

Parametrix has experience in complete streets design projects and is familiar with the state-of-the-practice guidelines presented in National Association of City Transportation Officials Urban Street Design Guide and Urban Bikeway Design Guide. We have helped small and large communities with projects ranging from missing sidewalk links to comprehensive non-motorized system plans. From planning and predesign to environmental permitting and final construction, we bring together

multidisciplinary teams to build public support, meet regulatory requirements, and design creative and exceptional projects. For example, Chris, Zach, and Stephanie led the study and design efforts for a complete street with multi-modal elements as part of our work on the Unser Boulevard Gap Widening Project. In addition, Stephanie and Zach recently completed an alternatives analysis in the Uptown Area to consider various intersection improvements to improve pedestrian safety. As part of this work, we applied new guidance that the city recently developed in the City of Albuquerque's Bicycle and Trail Crossings Guide to develop and evaluate alternatives.

### SECTION III **Respondent Experience** 1. Previous Projects of a Similar Nature

Parametrix has provided on-call engineering services to the City of Albuquerque since 2015 on more than 80 on-call tasks, in addition to more than 25 specific projects under separate contracts. These contracts demonstrate our experience with City of Albuquerque staff and procedures, DRC procedures, providing a variety of technical services, and our experience with federally funded projects through the NMDOT T/LPA process.

Examples of our project experience relevant to this contract are included in the following pages.

#### CITY WIDE ON-CALL ENGINEERING SERVICES (TRANSPORTATION AND DRAINAGE, PN 6097) CITY OF ALBUQUERQUE



To date, Parametrix has 19 task assignments under this agreement, some of which are complete and several others that are currently underway. The work spans multiple disciplines, including roadway improvements, intersection and signal improvements, traffic and safety studies, pedestrian and bicycle improvements, environmental investigations, and grant writing support. Representative projects include the following:

- Rio Grande/Alhambra Intersection Traffic Circle
- 98th and Gibson Traffic Signal Design
- Marquette Railroad Crossing
- Pedestrian Bridge RAISE Grant Application
- Environmental Support for Capital Projects
- Uptown Intersection Improvements
- Gibson Boulevard Assessment
- Balloon Fiesta Park I-25 Southbound Access
   On-Ramp

2	Jill Cuppernell, City of Albuquerque
6	505.768.3502
	2020 – Present
8	Varies by task



#### CITY WIDE ON-CALL ENGINEERING SERVICES (TRANSPORTATION AND DRAINAGE, PN 7536) CITY OF ALBUQUERQUE



Parametrix completed 20 tasks under this on-call contract spanning multiple disciplines, including roadway improvements, intersection and signal improvements, drainage analysis and design, traffic and safety studies, pedestrian and bicycle improvements, and R/W procedures. Listed below are some of the tasks/projects Parametrix completed for this contract:

- 98th Street/Blake Road Traffic Signal Design
- Louisiana Boulevard HAWK Signal
- Reversible Lane Feasibility Study
- Rio Grande Boulevard/Alhambra Avenue
   Intersection Study
- Rio Grande Boulevard ADA Improvements
- Balloon Fiesta Park Southbound I-25 Access IACR
- Jill Cuppernell, City of Albuquerque
- **505.768.3502**
- 🛗 2018 Present
- Varies by task

#### DISTRICT 3 ON-CALL, ALBUQUERQUE AND SURROUNDING AREA NMDOT



Parametrix has completed several tasks under this on-call contract. Tasks have involved traffic studies, roadway design, survey, traffic control, and general studies. Because the projects are in District 3, tasks often involve coordination with the City of Albuquerque. A few examples of tasks under this on-call include the following:

- I-40/Atrisco Vista Interchange Traffic and Alternatives Study
- I-40/Zuzax Interchange Design
- CAD Training for NMDOT Staff
- R/W Surveys and Maps for Various Roadways
- I-25/San Mateo Interchange Traffic Study
- I-40 Bridge Overlays, Big "I" Interchange, and I-40 near Sedillo Pavement Rehabilitation and Traffic Control Design
- Paseo del Volcan, I-40 to Unser Boulevard Conceptual Cost Estimate
- Greg Clarke, PE, NMDOT
- 505.490.2725
- 🛗 2018 Present
- Varies by task

#### **ON-CALL PROFESSIONAL SERVICES** MID REGION COUNCIL OF GOVERNMENTS (TWO CONTRACTS, 2017 AND 2021)



Parametrix has completed numerous tasks under two on-call contracts with MRCOG/Rio Metro for 2017 and 2021. The services have included transportation planning, trail design, environmental investigations, and transit planning. Example projects completed under these two contract include the following:

- Town of Bernalillo Pedestrian Trail Study and Design
- SWPPP Plans and Training for the Rio Metro Maintenance Facility
- University Corridor Bus Rapid Transit Plan
- Valencia County Transit Facility and Environmental Investigations
- Rail Runner Double Track Project
   Environmental Document
- Environmental documentation for Rail Runner
   Positive Train Control Wi-Fi Integration Project

	Tony Sylvester, MRCOG/Rio Metro
6	505.724.3635
	2017 – 2021, 2021 – Present
8	Varies by task



#### UNSER BOULEVARD GAP WIDENING CITY OF ALBUQUERQUE



#### Example of 3-D visualization.

Parametrix is providing transportation planning and design for a proposed 2.8-mile segment of Unser Boulevard located between Rainbow Boulevard and Paradise Boulevard. Unser is designated as a limited-access regional principal arterial that serves as an important commuter route, providing access to area residential neighborhoods, schools, and businesses. Unser is one of the few north-south roadways in the growing northwestern portion of Albuquerque. It connects I-40, the Petroglyph National Monument, Rio Rancho, and US 550. Improving safety for multimodal users is a high priority for the city and community. Parametrix has recently completed the design analysis report and is currently in the design phase for the project.

Parametrix also provided an animated 3D model for the project using AutoCADD Civil 3D. The visualization includes fully animated traffic, realistic buildings, and an accurate representation of the future project that can be navigated. The animation was effective for helping visualize the goal for the project, visiting areas of conflict/ concern, and visualizing differences between the existing and future roadway connections. The 3D animation will be used to assist with public involvement and stakeholder coordination.

- Jill Cuppernell, City of Albuquerque
- 505.768.3502
- 🛗 2021 Present
- 🛷 N/A

#### ALAMEDA DRAIN TRAIL, 4TH STREET TO MONTANO ROAD CITY OF ALBUQUERQUE



Parametrix provided planning, design, and engineering services during construction for the city's segment of the Alameda Drain Trail that spans from 4th Street to Montano Road. Parametrix also completed the design for Phases 1 and 2 with Bernalillo County from Montano Road to El Pueblo Road (approximately 2.75 miles). The project included the following:

- A 12-foot-wide, paved, shared-use path
- Graded access/maintenance roads on one or both sides of the drain
- Bioretention swales to capture run-off, increase infiltrations rates, and enhance water quality
- Water quality and erosion protection features
- · Street furnishings, trail signs, and wayfinding
- A crushed fine path to accommodate additional foot traffic and equestrian use
- The project used federal funds and was prepared following NMDOT T/LPA guidelines and approval processes

<u>}</u>	Christina Sandoval, City of Albuquerque
•	505.768.5370
U ⊞	2019 – 2021
	N/A

#### 2. Examples of Project Manager's City Experience within the Past Five Years that Demonstrates Knowledge of City Procedures

Zach's experience with City of Albuquerque projects and his knowledge of City procedures includes his work for the past 8 years. He has managed individual projects and on-call contracts. This prior work provides him with a thorough understanding of the city's consultant contracting process, project development protocols, approval requirements, and coordination needs.

In the past 5 years, Zach's experience with the city includes serving as deputy project manager and project manager for two Citywide On-Call Engineering Services (Transportation and Drainage) Contracts. He also provided project engineering for the On-Call Planning and Related Services Contract for Albuquerque City Council Services, Unser Boulevard, and the Alameda Drain Trail Project.

### SECTION IV Technical Approach

#### 1. Understanding of the Project Scope

Parametrix has extensive experience providing professional services on an on-call basis, and we understand the types of projects that might be included under this contract for transportation and storm drainage projects. Projects can range



from transportation studies and reports to complete and accurate construction documents for varying types of projects. We also understand that related services, such as public involvement, cost estimating, and construction phase services may be required.

Parametrix also understands that on-call contracts require the capability and capacity to undertake and to successfully complete several projects and tasks at the same time, typically within a short timeframe. We have the knowledge, resources, and experience to undertake several projects at once and to complete them on a fast-track basis.

#### 2. Plan to Perform Services Requested by the Project Scope

Due to the wide range of project types that may be assigned under this on-call contract, we are not providing a project-specific technical understanding and approach. Rather, we have outlined our plan to receive, scope, and complete tasks assigned by the city project manager. After performing dozens of on-call task assignments under our previous and existing on-call contracts with the city, NMDOT, and MRCOG/Rio Metro, we have refined an efficient approach to respond quickly, staff appropriately, and advance projects. Key steps in our approach include the following:

- Upon receiving a request from the city project manager, we will begin the assignment by scheduling a telephone, video, or in-person meeting to discuss the assigned task. This meeting will focus on the project objectives, city expectations, anticipated schedule and budget, and any known interests or sensitivities that could affect the project.
- Following the scoping meeting, we will conduct a site visit (as appropriate) and

research available background data and information (e.g., as-built plans, traffic counts, and scoping reports).

 Based on the information provided by the city, our site visit, and background research, we will prepare a brief scope of work that presents our project understanding, technical approach, work activities, schedule, and fee estimate.

Our previous on-call contracts have had numerous task orders. Some of these involved quick mobilization and turn-around times to meet immediate needs, while others involved more complex scopes requiring the development of alternatives, detailed analysis, environmental documentation, public meetings, and design plan preparation. Depending on the size and complexity of the assignment, we will identify a task manager and supporting team members capable of meeting the needs of the project. As mentioned in Section 2, we have a deep bench of project managers, technical specialists, project engineers, planners, and other support staff, as needed. We strive to match assignments with the right task lead and support team to achieve a successful outcome.

In addition to the right team, continuous monitoring of project progress and communication are essential to success. We discuss every active project as part of our weekly staff meetings to assess project progress, issues, and support needs. Critical path schedules and action item listings are also prepared, updated, and communicated weekly, and they are used to keep tasks moving forward on schedule. The action item listings include staffing, due date, responsible person, and comments.

In addition to the general understanding and approach described above, we know the

policies, procedures, and coordination needs of larger and/or federal projects.

#### STUDY PROCEDURES

Parametrix is skilled at the study phase of project development, whether it is a DAR for city-funded projects, or state and federally funded projects that must meet the NMDOT LSP and T/LPA handbook. We understand these procedures and other related ones, including the following:

- Development of IACRs
- NEPA documentation, including CEs, EAs, and EISs
- Resource investigations and consultation requirements for cultural and historic resources, Section 4(f), natural resource investigations, Section 404, environmental justice evaluations, and other related environmental rules, regulations, and procedures
- Noise analysis and abatement procedures in accordance with 23 CFR 772

Our expertise in study procedures is demonstrated by our work on the Unser Boulevard Gap Widening project and the Balloon Fiesta Park I-25 Southbound Access Modifications. Both of these projects were required to conform with the T/LPA and NEPA documentation. The Unser project also required noise analysis and the I-25 project required preparation of an IACR.

#### **DESIGN-PHASE PROCEDURES**

Our approach to the preliminary engineering and design phases of a project is centered on the belief that the preliminary engineering phase of a project represents a very important part of the project development process. During this phase, many of the key decisions that will influence the eventual outcome of a project are made. This is



especially true on smaller projects where critical design concepts may not have been developed and evaluated as part of a full project scoping, or through NMDOT's LSP process. We believe that the ultimate success or failure of a project often depends upon the preliminary design concepts that are developed and how well those concepts address the underlying needs of the project.

As a project enters the final design phase, we will closely monitor all critical environmental, public involvement, or design issues that were identified on the project. We will work to confirm that the plans and specifications reflect all directions given by the city, as well as any public commitments that may have been made.

For each design task, we will conduct the following steps:

- Collect data pertinent to the tasks such as field design survey, R/W survey, as-built data, traffic data, utility data, or drainage reports
- 2. Prepare conceptual or preliminary designs and review the designs with the city and stakeholders, as needed
- 3. Address comments and proceed to final design
- 4. Review final design plans with the city and meet with stakeholders, as needed
- 5. Address comments and proceed with final plans and contract documents
- 6. Provide bidding assistance, review bids, and develop a recommendation of contract award
- 7. Provide construction phase services
- 8. Conduct final field reviews, prepare record drawings, and close out project

The level of coordination necessary can vary considerably between projects and can depend on the project size and location. We have extensive experience working throughout Albuquerque and have working relationships with the various agencies that are typically involved in city projects, such as NMDOT, FHWA, Albuquerque Metropolitan Arroyo Flood Control Authority (AMAFCA), Bernalillo County, MRCOG, MRGCD, State Historic Preservation Office (SHPO), and the U.S. Army Corps of Engineers. These relationships, along with our understanding of the project development process, will help to move projects forward with expediency.

#### **OTHER TECHNICAL ELEMENTS**

In addition to our overall understanding of studyphase and design-phase procedures, we also understand the various technical elements.

**Traffic, Safety, and Lighting** – Our team is proficient at assessing traffic demand, traffic operations, signal phasing and timing, and crash analysis. This expertise is demonstrated by the extensive analyses we performed as part of the Balloon Fiesta Park I-25 Southbound Access Modifications, which included data collection and analysis of the overall roadway system serving and affected by the International Balloon Fiesta.

If needed, we will use the AGi32 lighting software to analyze anything from existing lighting conditions to proposed lighting designs, for both vehicles and pedestrians. Our database of photometric files includes the luminaires used by PNM in maintaining the city's lighting system. Like our design projects, we strive to make sure all our studies meet or exceed our client's expectations.

**Drainage Engineering** – Drainage engineering and hydrology studies can also be done as standalone projects or in support of roadway design efforts. We are adept at data collection, evaluation of existing conditions to identify problem areas, evaluation of proposed improvements and the relative impacts to existing drainage systems, identification of proposed improvements needed to accept changes in runoff volumes, and preparation of reports to summarize the findings and recommendations. Hydrologic and hydraulic modeling methods, consistent with those used by the city and other agencies in the area, will be used during the analyses.

When appropriate, we use Pipe Networks in AutoCAD Civil 3D, which enables dynamic, intelligent design capabilities. For instance, when a Pipe Network is created in a plan, Civil 3D will automatically create the network in a profile view and can also create cross sections. Our proficiency with Civil 3D will save us a great deal of time and effort, enabling us to deliver projects quickly to meet the city's timeline.

Surveying – Our team includes surveying staff for stand-alone survey work or to provide design surveys for study and design projects identified under this on-call contract. Our approach to these types of tasks will be to identify the level of survey effort needed for a particular project, collect the field survey data using the appropriate data collection methods, research R/W and property ownership documents, as needed, and prepare final deliverables. We can provide services for the preparation of R/W maps, land plats, easement descriptions, monumentation plans and surveys, and we can manage and coordinate R/W acquisition as a stand-alone service. Our surveyors have surveyed and prepared maps for numerous miles of R/W for both state and local agencies.



**SUE and Construction Phase Services** – The Parametrix team includes Horrocks Engineers for any tasks requiring SUE or construction phase services. Horrocks provides complete construction services. The firm tailors its services to meet the specifications of the job. They provide clients with quality construction administration, construction engineering, and survey staking, while maintaining current filing standards and documentation. Horrocks staff members are certified in NICET, WAQTC, DOT standards, nuclear density, and ACI, and they are trained to identify and find solutions to potential construction problems or conflicts.

**Public Involvement** – Public involvement is a key element that may be associated with projects under this on-call contract. The Parametrix team has extensive public involvement expertise that includes some of the most difficult projects in New Mexico. We also use visualizations to help convey engineering concepts. As an example, we recently developed 3D visualizations and an Infraworks model of proposed improvements for the Unser Boulevard Gap Widening project.

As previously discussed, Parametrix staff has decades of experience at developing and implementing public involvement programs tailored to the needs of each project by using a variety of public involvement tools.

#### **QUALITY CONTROL PROCEDURES**

All our services will be performed according to the Parametrix internal quality control procedures. Our approach to quality control is consistent, whether the project is large and complex, or small and straightforward, whether it is a design or study, and whether the work is conducted by Parametrix staff or our subconsultants. First, quality products require an experienced project manager supported by a team with the expertise and experience to perform the task at hand. Ken Murphy will perform quality control on projects. He has decades of experience as a project manager, roadway, and traffic design engineer, and he has designed many projects for the city and NMDOT. Ken is supported by staff with expertise in all the technical disciplines needed to complete quality studies or design packages.

Second, an established process must be in place to make sure that the necessary quality checks are performed and documented at predetermined points in the project development process. Parametrix has developed a quality control process that covers all aspects of our project delivery and operations. Our quality reviews are continuous throughout the project. Critical steps include having the project manager review and sign off on all assumptions, calculations, and plans, along with conducting independent guality assurance reviews for accuracy and completeness that are performed and documented at the interim and final study or plan stages. For design plans, we use Bluebeam software to track comments, responses to comments, and complete quality control verification. This process confirms that the quality control process on design plans is documented. For document reviews, review comments and responses are completed using track changes or comment features in Adobe to document and verify the quality control process.

#### 3. Specialized Problem Solving

Our work managing more than 80 city task orders and projects gives us first-hand experience and insights on how to address the many planning, design, and environmental challenges the city faces. These challenges have often included technical issues and contentious and/or politically sensitive issues. For the latter, Parametrix has the expertise, skills, and diplomacy to help identify and achieve solutions that meet the needs of the city and stakeholder groups. One example is our recent work to address questions and concerns from the Federal Highway Administration (FHWA) on the alternatives analysis as part of the IACR and Phase I-A/I-B Report for the Balloon Fiesta Park I-25 Southbound Access Modifications. In this work we partnered with the city and NMDOT to address FHWA's concerns to keep the project moving forward on its tight schedule.

For technically challenging projects, we work with city engineers and planners to identify and discuss issues and potential solutions. This collaborative approach facilitates an understanding of perspectives and needs and enables quicker resolution so that schedule delays are avoided. Our recent work for the Louisiana Boulevard and Natalie Street HAWK Signal Project is an example of this collaboration.

As previously discussed, our staff and team brings specialized expertise in the following areas:

- Experience with on-call contracts
- Experience with federal and state funding and approval processes including T/LPA, LSP, IACRs, NEPA, R/W and certifications
- Experience working with stakeholders and the public using traditional methods and interactive tools such as 3D visualizations and GIS-based story maps

In addition, our staff has extensive experience developing federal grant funding applications, including those for federal transportation funds.



These require knowledge of federal grant processes, and the development of Benefit/Cost Analyses (BCAs) as part of grant applications. Our staff can provide support and expertise to help the city determine if projects are a good candidates for federal funding programs.

### SECTION V Cost Control

#### 1. Cost Control and Cost Estimating Techniques

An effective cost control plan begins during the planning stages of the project development process and continues through final design and implementation. Parametrix focuses on three main aspects of cost control:

#### COST CONTROL OF THE DESIGN PROCESS

Cost control is accomplished by comparing work completed to project costs on a regular basis. The Parametrix accounting system allows for real-time checks of budget status to help maintain budgets. For each project, the project manager conveys the project budget to the task leaders and discusses the project expectations. Periodically, the project manager reviews the project scope and hours with the task leaders to make certain that the project is staying on task and within budget. If the hours spent exceed the percent completed for a task, the project manager is immediately alerted of the disparity and can adjust as needed, preventing cost overruns.

#### CONTROL OF THE CONSTRUCTION ESTIMATE

The effective control of estimated construction costs for any project requires that several factors be addressed and understood early

in the project development process. First, project objectives and priorities must be clear to all team members. Second, the issues and factors that may affect project design and implementation must be recognized by all design team members. Finally, the budget allocated to the project must be known. To achieve the above, Parametrix recommends that the design process begin with a predesign conference involving all key project staff (city and consultant staff) to identify inconsistencies between the project design and funds available for implementation. In addition, it is critical to update the cost estimate through the design process to refine it as the project goes through design reviews at 30, 60, and 90 percent, and PS&E. These updates and refinements are particularly important given the ongoing cost increases that are being seen for construction projects across the state due to increased labor,

materials, and fuel costs. Parametrix will work with the city project manager, assess previous bid projects, and determine average unit bid prices to accurately estimate the project.

#### COST ESTIMATING TECHNIQUES

Cost estimates Parametrix develops typically come from several sources. As a starting point, we use current bid prices from recently awarded city projects. We may also look at the NMDOT unit prices or at the bid prices for recently let county or NMDOT projects in the Albuquerque area for additional sources of information. We have found that this provides us with a more accurate reflection of actual bids by contractors for unit prices that frequently fluctuate.

#### 2. Comparison of Bid Award Amount to Final Cost Estimate

Figure 3 provides comparisons of bid award amounts to final cost estimates for projects designed by Parametrix during the past 3 years.

NAME OF PROJECT	BID-MONTH/ YEAR	NUMBER OF BIDS	FINAL COST ESTIMATE	BID AWARD AMOUNT
US 62/Hidalgo Road Intersection Improvements   NMDOT	December 2021	1	\$1,784,655	\$1,678,525
Alameda Drain Trail Phase 2 Design   Bernalillo County	December 2019	5	\$2,619,561	\$2,410,723
US 550 Roadway Construction   NMDOT	June 2019	3	\$26,757,291	\$23,826,023
Paradise Boulevard Improvements, Golf Course Road to Eagle Ranch I City of Albuquerque	December 2018	5	\$2,490,245	\$2,475,491

#### FIGURE 3. COMPARISON OF BID AWARD AMOUNT TO FINAL COST ESTIMATE



# ONE ALBUQUE RQUE

ENGINEERING CONSULTANTS FOR CITY WIDE ON-CALL ENGINEERING SERVICES

# SECTION VI. CERTIFICATIONS

PROJECT NO. 7206.00, 7207.00, AND 7208.00 JUNE 1, 2022

# **Parametrix**



Pay Equity Reporting Form City of Albuquerque

Www.cabd.gov



Bernalillo County Www.berncd.gov



Water Authority www.abcwua.org

### Company Details

Company Name	Parametrix	Mailing Address	1019 39th Ave SE, Suite 100, Puyallup, WA, 98374
Phone	253-501-1027		
Email Address	kroberts@parametrix.com	NM Employees?	yes

Job	Category	No. Females	No. Males	Gap (Abs. %)	
1.1	Exec/Senior Level Officials/Mgrs	0	2	N/A	
1.2	First/Mid Level Officials/Mgrs	0	3	N/A	
2	Professionals	8	15	15.01%	
3	Technicians	0	2	N/A	
4	Sales Workers	0	0	N/A	
5	Office and Admin. Support	1	0	N/A	
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	
	Overall Total	9	22	15.01%	

Total # of Females (all categories)	9	Total # of Males (all categories)	22
Total # Female Only Job Categories	1	Total # Male Only Job Categories	3
Total # Part Time Females	5	Total # Part Time Males	7
Female % Workforce	29.03%	Male % of Workforce	70.97%
Total # Employees	31	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.

Signature

Jeanna Hanenburg

Jan 11, 2022

**Date Submitted** 

Name and Title

Jeanna Hanenburg, Director of Human Resources

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.

Certified - Overall Gap is 0%

Gender Pay Equity Representative

Uncertified - Overall Gap is more than 0% Company ID: 17

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 Name City Wide On-Call Engineering Services
Project Number 7206.00, 7207.00, and 7208.00
Date 6/1/2022 Firm Name Parametrix, Inc.
Signature David Pennyth
Title Vice President
STATE OF NEW MEXICO )       STATE OF NEW MEXICO         NOTARY PUBLIC       Notarie Garcia
COUNTY OF BERNALILLO) Commission No. 1113113 January 27, 2024
The above Certification was subscribed before me, the undersigned authority, by:
David Rennington
who swore upon oath that this Certification was signed of free act and deed, on this

day of June .20 Ja Notary Public) 24 My commision expires:

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### **CERTIFICATE OF LIABILITY INSURANCE**

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# proposal ·····

# **City Wide On-Call Engineering Services**

Proj. No.: 7206.00, 7207.00, 7208.00

Submitted for the City of Albuquerque June 1, 2022



8220 San Pedro Drive NE, Suite 150 Albuquerque, NM 87113

505.338.0988

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ARIZONA NEW MEXICO OKLAHOMA TEXAS

June 1, 2022

Eric Michalski, PE Project Manager Dept. of Municipal Development

#### RE: City Wide On-Call Engineering Services (Projects No. 7206, 7207, 7208)

Dear Mr. Michalski;

On-Calls for Engineering Services are the mechanism by which the City of Albuquerque can efficiently transform City needs into City improvements, thereby increasing the customer service levels and improving the overall quality of life of our community. They provide valuable information to the decision-makers and answers to citizens. Lee Engineering understands that on-call engineering projects are time-sensitive and require tailored solutions. We are prepared to serve as the City of Albuquerque's prime consultant on this critical On-Call. Lee Engineering has assembled a comprehensive team, including Toole Design, Parametrix, Terracon, Geo-Logic, and Precision Surveys as subconsultants on an as-needed basis.

For over a decade, Lee Engineering has been providing expert traffic and transportation engineering services to the City of Albuquerque on numerous projects, gaining a practical, in-depth understanding of the various needs of the City. This experience began with the multi-phased, ongoing Signal System Expansion, where efforts in GIS have saved the City thousands of dollars, and signal re-timing plans are saving city roadway users hundreds of hours in travel time and stop reductions. Additionally, Lee Engineering has completed numerous small studies through DMD On-Call task assignments, including signal warrants, speed studies, stop control studies, and cut-through studies.

In addition to these COA projects, Lee Engineering also holds multiple on-call contracts with the City of Albuquerque-City Council Services and Traffic Engineering, as well as agencies such as the New Mexico Department of Transportation, Bernalillo County, City of Las Cruces, City of Rio Rancho, and Mid-Region Council of Governments. Our experience with traffic on-call contracts through multiple agencies and numerous back-to-back selections illustrates an understanding of our client's needs and our commitment to providing expert, responsive, and practical engineering solutions.

As Project Manager, I have over 18 years of experience in traffic and transportation and have built quality relationships with the City of Albuquerque and New Mexico communities. Our qualifications include examples of our elevated level of traffic and transportation expertise, quality products, and history of superior client service. Our long-standing reputation with New Mexico and its communities demonstrates the dedication we have to our clients. We trust this proposal fully conveys our qualifications for the City of Albuquerque's On-Call project. We are committed to growing our outstanding relationship with the City of Albuquerque and are confident that we will exceed your expectations.

Please feel free to contact me at (505) 338-0988, or <u>pbarricklow@lee-eng.com</u>, if you have any questions.

Sincerely,

Paul Barricklow, PE, PTOE Principal



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# I. General Information

### 1. company background and information

Jim Lee, PhD, PE, PTOE, established Lee Engineering in 1988. Dr. Lee was motivated to create a firm specializing in traffic engineering after experiencing dissatisfaction with the traffic engineering knowledge offered by general consultants while working as a public sector traffic engineer. According to Dr. Lee, firms that offer traffic engineering as one of many services are unlikely to provide the level of knowledge and experience needed for our increasingly complex traffic situations.

Lee Engineering was formed to provide specialty traffic engineering service to clients and has become the go-to traffic and transportation engineering firm across the Southwest and beyond with offices in Albuquerque & Las Cruces, New Mexico; Phoenix, Arizona; Dallas, El Paso and San Antonio, Texas; and, Oklahoma City, Oklahoma.



8220 San Pedro Drive NE, Suite 150 Albuquerque, NM 87113





leeengineering.com

### 2. company employee information

Company-wide, Lee Engineering employs 46 professionals throughout New Mexico, Arizona, Oklahoma and Texas. We are comprised of 4 Principal Engineers, 12 Project Managers, four Project Engineers, 11 Engineering Designers, five Technicians, five Administrative employees, and five interns. The table below highlights the team we have assembled who will be directly working with the City to execute the tasks of this on-call project.

TEAM MEMBER & TITLE	TECHNICAL DISCIPLINE	REGISTRATIONS
Paul Barricklow, PE, PTOE   Principal	Traffic & Transportation Engineering	PE #17744 (NM); PTOE #1885
Jonathon Kruse, PE, PTOE   Project Manager	Traffic & Transportation Engineering	PE #25017 (NM); PTOE #4773
Mike Cynecki, PE, PTOE   Project Manager	Traffic & Transportation Engineering	PE #18477 (AZ); PTOE #3795
Stephen Montaño, El	Traffic & Transportation Engineering	EI #7583 (NM)
Jonathan Pham, El	Traffic & Transportation Engineering	EI #7549 (NM)
Michael Policastro	Traffic & Transportation Engineering	

### 3. location of services performed

Lee Engineering's Albuquerque office will be responsible for projects associated with this City of Albuquerque contract. Each member of our Albuquerque staff has extensive experience working with the City of Albuquerque and is well versed with City, State, and Federal procedures. For specialty cases, Lee Engineering employs professional engineers with highly concentrated and unique experience in each of our offices and will utilize their expertise on an as needed basis.

# **II. Project Team Members**

# 1. organizational management structure



City of Albuquerque • 2022 Citywide On-Call Engineering Services

## 2. subconsultant information

### Parametrix

Parametrix is a 100-percent employee-owned firm dedicated to providing high-quality, client-oriented engineering, planning, and environmental consulting services to a diverse range of clients and industries. Established in 1969, Parametrix currently has 13 offices across six western states and approximately 500 employees. Our Albuquerque office was established in 2002. Parametrix has provided on-call engineering services to the City of Albuquerque for many years and has completed 50+ on-call tasks for the City since 2010, They have also assisted the City complete many stand-alone projects.



Over its history, Terracon has achieved significant expansion through both internal growth and acquisitions. Terracon has more than 5,000 employees providing environmental, facilities, geotechnical, and materials services from more than 150 offices nationwide. Additionally, we partner with our U.S. clients to serve their international needs. The firm's success is further evidenced by a current ranking of 22 in Engineering News-Record's 2020 listing of the Top 500 Design Firms, as compared to a ranking of 50 a decade ago. Terracon's growth is due to dedicated employees who are responsive to clients, provide quality services, and take advantage of opportunities in the marketplace.



Daniel B. Stephens & Associates, Inc. (DBS&A) is a home-grown New Mexico consulting firm providing multidisciplinary geologic, engineering, water, and environmental consulting. We perform all aspects of evaluations for National Environmental Policy Act (NEPA) compliance and have experience with impact analysis for land use, natural resources, threatened and endangered species, water resources, socioeconomics and environmental justice, hazardous materials, air quality, noise, visual resources, and cultural resources. Our team of regulatory specialists, biologists, archaeologists, hydrologists, geologists, GIS specialists, engineers, and environmental scientists can provide the resources necessary for evaluating specialized and complex issues.

### PRECISION

Precision Surveys, Inc. was founded on May 17, 1993, by Larry W. Medrano who is a Licensed Professional Land Surveyor in New Mexico and Texas and is also a Certified Federal Surveyor. Precision Surveys, Inc. proudly celebrates our 29-year anniversary in business in 2022. The firm has twenty-five employees in three offices and the corporate office is located in Albuquerque, NM. We also have offices on the Pueblo of Pojoaque and in Los Alamos, NM. Our services have been provided throughout New Mexico for several types of clients including Pueblo Governments, Federal Agencies, State Agencies, City and County governments, utility companies, engineers, architects, and private entities.



Toole Design is a leader in multimodal civil engineering services, including alternatives analysis and concept design, traffic analysis and signal design, cost estimates, final design and construction documents, project coordination, and construction administration services. Toole Design staff have extensive experience on a wide range of project types, including on-road bicycle facilities; roadway and intersection design for dense urban corridors, suburban streets, and rural roads; complex interchanges; intersection safety improvements; corridor studies; trails and greenways; bicycle wayfinding; transit corridors, routing, and access; road diets and street "right sizing" projects; shared streets; urban plazas and streetscapes; Green Streets; and low-impact development. Additionally, we are authors of numerous local and national guidance on bicycle facility design.

Lee Engineering has assembled a comprehensive team of consultants with a bent towards roadway safety and operations. While our can complete any assignment within the scope of the RFP, it goes without saying, our team is the best choice for complex traffic engineering and transportation safety tasks. We can support vision zero initiatives and enable smart and efficient communities.



### PROFESSIONAL REGISTRATIONS

PE, New Mexico | #17744 PTOE | #1885 Safe Routes to Schools National Course Instructor Trained League of American Bicyclists Instructor

### **EDUCATION**

MBA | University of Texas, San Antonio BS, Civil Engineering | University of Texas, San Antonio

### MEMBERSHIPS/AFFILIATIONS

Mountain ITE District, Past-President New Mexico ITE, Past-President New Mexico ITS, Board Member

### PROJECT ROLE AND EXPERTISE

Management, Traffic Studies, Street Lighting Design, Multimodal Design, Public Meetings and Involvement, Safety Studies

## ADDITIONAL PROJECT EXPERIENCE

- Signal System Expansion (Multiple Phases), City of Albuquerque
- Coors Boulevard ATSPMs, City of Albuquerque
- Central Avenue ATSPMs, City of Albuquerque
- Zuni Road Improvements, City of Albuquerque
- Downtown Speed Zone Signal Timing, City of Albuquerque

# 3. qualifications of project team members

# Paul Barricklow, PE, PTOE Principal | Project Manager

Mr. Barricklow's atypical combination of management and engineering education combined with his hands-on experience make him uniquely qualified for complex traffic engineering and transportation planning projects. As the founding member of Lee Engineering's Albuquerque office, Mr. Barricklow has served New Mexico communities for over 14 years. His areas of expertise include traffic operations studies, signal design, signal timing, safe routes to school studies, ITS design, and advanced traffic modeling.

Mr. Barricklow has managed the Traffic Signal Systems Expansion Projects for over a decade, facilitated unique traffic engineering initiatives to include Automated Traffic Signal Performance Measure (ATSPM) implementations on Coors Boulevard and Central Boulevard, and has also supported greater roadway efforts throughout the City, while partnered with other firms, to include University Bikeways, Osuna Road Expansions, and Westside Boulevard. Within each of these projects, Mr. Barricklow participated in the public involvement process, coordinated with DRC, and completed construction phases service support.

## RELEVANT PROJECT EXPERIENCE

#### Louisiana Blvd ITS Improvements, Albuquerque, NM

In the continuing effort to modernize and update the ITS and Traffic Management infrastructure, the City of Albuquerque contracted Lee Engineering to design a 2.36-mile fiber-optic communications extension along Louisiana Blvd from Central Ave to Menaul Blvd. The design included ITS equipment upgrades and integration into the City's Automated Traffic Signal Performance Measures (ATSPM) system for all nine signalized intersections along the project corridor. The ITS upgrades incorporated vehicle and pedestrian/bicycle detection, CCTV, contemporary traffic signal controllers, and the installation of a Traffic Management & Database Server in the RTMC. Ongoing services involve ATSPM monitoring to refine traffic signal timing and develop a corridor coordination plan.

#### I25/Paseo del Norte Reconstruction Design-Build, Albuquerque, NM

Lee Engineering participated in the design-build of the I25 and Paseo Del Norte interchange. For this project, Lee Engineering conducted a microscopic VISSIM analysis of the interchange design, designed traffic signals for reconstruction, designed ITS infrastructure throughout the project area. While a small portion in terms of construction, Lee Engineering refined the interchange design and freeway justification details to bring the project to fruition. Critical design features that determine how the public interacts with the design were under Mr. Barricklow's teams control and included: merge analysis onto I25, elimination of a loop ramp its unprotected pedestrian crossings and implementing unique signal control operations of the Jefferson SPUI requiring cabinet, controller, and conflict card modifications.



PROFESSIONAL REGISTRATIONS PE, New Mexico | #25017 PTOE | #4773

# EDUCATION

MBA | University of New Mexico BS, Civil Engineering | New Mexico Institute of Mining and Technology

## PROJECT ROLE AND EXPERTISE

QA/QC, Signal Design, Lighting Design, Contract Documents, Pedestrian/Bike and Traffic Counts



PROFESSIONAL REGISTRATIONS PE, Arizona | #18477 PTOE | #3795

## EDUCATION

M. Eng., Civil Engineering | Wayne State University

BS, Civil Engineering | Wayne State University

## PROJECT ROLE AND EXPERTISE

Traffic Operations and Safety Studies, Traffic Impact Analysis, Bike and Pedestrian Studies, Traffic Data Analysis, Traffic Signal Design

# Jonathon Kruse, PE, PTOE | Deputy Project Manager

Mr. Kruse has conducted or been involved with many different traffic studies for a wide range of purposes and has worked on multiple federally funded and privately funded projects. Mr. Kruse has been responsible for writing engineering specifications, authoring supplemental special provisions (SSPs), and compiling contract books for federally funded projects. His traffic engineering study expertise ranges from small single intersection studies to traffic impact analyses for housing and commercial developments to large policy-driven master-plan studies. Most recently, he has taken on the role of managing Lee Engineering's City of Albuquerque Neighborhood Traffic Management Program on-call where he has been able to apply his skills to smaller neighborhood studies and present at various public meetings.

# RELEVANT PROJECT EXPERIENCE

Neighborhood Traffic Management Program Studies and Public Involvement (various projects), Albuquerque, NM

Horizon Alameda Signal Design, Albuquerque, NM

Regional Traffic Management Center (RTMC) Assistance, Albuquerque, NM CN A300943 Rio Bravo Adaptive Signal and Fiber Optic Design, Bernalillo County, NM

Central Ave Automated Traffic Signal Performance Metrics (ATSPMs), Albuquerque, NM

# Michael J. Cynecki, PE, PTOE | Project Manager

Mike Cynecki is Lee Engineering's bicycle and pedestrian aficionado with over 42 years of experience in traffic operations and safety. Mr. Cynecki joined Lee Engineering after a 26-year municipal career with the Phoenix Street Transportation Department. There, he managed the Traffic Signal Section for four years and the Traffic Investigative Services Section (Field Investigators, School Safety Section, Neighborhood Traffic Management Section, and Traffic Safety Section) for 22 years. Mr. Cynecki oversaw the installation of the first nine pedestrian hybrid beacons (HAWKs) in Phoenix and the first two Rectangular Rapid Flashing Beacons (RRFBs) in Arizona for improved pedestrian safety. Mike has been heavily involved in the Transportation Research Board (TRB) for three decades, and was a past Chair of the Pedestrian Committee and also served as the Section Chair for six years which oversaw the activities of the Pedestrian, Bicycle, and Motorcycle Committees.

# RELEVANT PROJECT EXPERIENCE

MAG Road Safety Assessments, Maricopa County, AZ PAG Road Safety Assessments, Pima County, AZ ADOT Evaluation of Pedestrian Hybrid Beacons (Research study) MAG Safe Routes to School Studies, Avondale/Surprise/Phoenix, AZ San Tan Ranches Access Study, San Tan Valley, AZ 24th Street Pre-design and Feasibility Study. Phoenix, AZ

3. qualifications of project team members







### **Stephen Montaño, El** Engineering Designer

Mr. Montaño joined Lee Engineering in 2021 as an Engineering Designer. Stephen holds a Bachelor of Science degree in Civil Engineering from The University of New Mexico and a Master of Science from The University of Vermont in Civil and Environmental Engineering. He is motivated to develop solutions to transportation challenges benefiting safety, public health, and accessibility. He is skilled in evaluating multimodal safety for roads and intersections and analyzing traffic and crash data.

### Education

MS, Civil/Environmental Engineering | Univ. of Vermont BS, Civil Engineering | Univ. of New Mexico

Registrations/Affiliations EI, New Mexico | #7583

### **Relevant Experience**

Rainbow Traffic Calming Study, City of Albuquerque, NM; Citywide Traffic Engineering On-Call, City of Albuquerque, NM; Traffic Engineering On-Call for Neighborhood Traffic Management Program (NTMP), City of Albuquerque, NM Coors Blvd. Road Safety Audit, NMDOT; Madrid Transportation Safety Plan, NMDOT

# Jonathan Pham, El

### **Engineering Designer**

Mr. Pham currently works as an Engineering Designer for the Lee Engineering Albuquerque office. He has over three years work experience within the private sector and has earned a Master of Science in Civil Engineering from The University of Oklahoma. He is skilled in Signal Designs, ITS Designs, Lighting Analysis, Crash Data Analysis, Road and Intersection Safety Analysis, Traffic Engineering Studies, Technologies, and data collection set-up and processing. Mr. Pham has gained experience working on both privately and federally funded projects.

### Education

MS, Civil Engineering | Univ. of Oklahoma BS, Civil Engineering | Univ. of New Mexico

Registrations/Affiliations EI, New Mexico | #7549

### **Relevant Experience**

CABQ Traffic On-Call, City of Albuquerque, NM; Uptown Intersection Improvements Scoping and Alternatives Report, City of Albuquerque, NM (Ongoing); Unser Boulevard Design Analysis Report/Phase I-A/B Study, City of Albuquerque, NM; Lead Avenue and Coal Avenue Restin-Red Design, City of Albuquerque, NM (Ongoing)

# **Michael Policastro**

### **Engineering Designer**

After spending 15 years in foodservice management, Mr. Policastro pursued his lifelong interest in science and engineering and earned his BS in Civil Engineering from the New Mexico Institute of Mining and Technology in 2020.

Since graduation, Mr. Policastro has been involved in multiple ITS improvement and performance-based planning projects providing valuable experience in ITS field evaluation, planning, design, and implementation in Albuquerque.

### Education

BS, Civil Engineering | NM Institute of Mining & Tech

### **Relevant Experience**

Tramway Blvd I-25 Entrance Ramp Interstate Access Change Request, City of Albuquerque, NM; Balloon Fiesta Parkway/I-25 IACR Traffic Count and Monitoring Services (Ongoing) City of Albuquerque, NM; Zuni Roads Improvements, City of Albuquerque, NM; Alameda Blvd Operational Improvements, City of Albuquerque, NM; East Central Ave Operational Improvements, City of Albuquerque, NM; ITS – Albuquerque Traffic Management Systems – Louisiana Blvd Improvements, City of Albuquerque, NM; Central ATSPM, City of Albuquerque, NM

# Zach Troncoso, PE

## Roadway/General Civil Support

Zach is a civil engineer with experience working with the City of Albuquerque on several on-call engineering services contracts. His experience includes traffic analysis, roadway design, bike/trail design, cost estimating, bid documentation, traffic control plans, and public involvement. Zach's relevant experience with the city includes the Alameda Drain and Trail, Balloon Fiesta Park I-25 Southbound Access, University Boulevard Widening, Rio Grande Feasibility, Unser Boulevard Gap Widening, Uptown Improvements, and the Louisiana Boulevard/ Natalie Avenue HAWK Signal projects.

## Parametrix Education

BS, Civil Engineering | Univ. of New Mexico

Registrations/Affiliations PE, New Mexico | #25312

#### **Relevant Experience**

Alameda Drain and Trail, Balloon Fiesta Park I-25 Southbound Access, University Boulevard Widening, Rio Grande Feasibility, Unser Boulevard Gap Widening, Uptown Improvements, and the Louisiana Boulevard/ Natalie Avenue HAWK Signal projects.

# **Aaron Sussman, AICP**



Transportation Planning Support

Aaron is a Senior Planner with experience in both the public and private sectors. Prior to joining Toole Design, he worked on transportation projects across New Mexico for Bohannan Huston. His experience includes a range of active transportation, regional planning, and transit planning efforts, including various tribal transportation plans. Under previous employment at the Mid-Region Council of Governments, Aaron managed multiple metropolitan transportation plan updates and participated in various planning projects for the Rio Metro Regional Transit District.

### Education

MA, Latin American Studies, Univ. of New Mexico MA, Community & Regional Planning, Univ. of New Mexico BA, Spanish and Anthropology | Dickinson College

### **Registrations/Affiliations**

American Institute of Certified Planners (AICP) American Planning Association, Member Urban Land Institute NM - Board Member

### **Relevant Experience**

Golf Course Road Complete Streets Corridor Study, Albuquerque, NM; East Central Avenue Safety Studies, Albuquerque, NM; Development Process Manual Update, Albuquerque, NM; East Central Park and Ride Feasibility Study, Albuquerque, NM

### Julie Kutz Environmental Support



Julie is a New Mexico biologist with 32 years of experience as a professional in the environmental and engineering field. Her expertise includes environmental studies for NEPA, Clean Water Act (CWA), and other regulatory documentation requirements. Julie's experience includes biological assessments (BAs)/biological evaluations (BEs), wetland delineations, categorical exclusions (CEs), environmental assessments (EAs), and environmental impact statements (EISs), biological surveys and threatened and endangered (T&E) presence/absence surveys, wetland delineations, Phase I environmental site assessments (ESAs), and public involvement.

### Education

BS, Biology, University of New Mexico

Registrations/Affiliations EI, New Mexico | #7583

### **Relevant Experience**

Phase I Environmental Site Assessment (ESA), Central South Union, City of Albuquerque; EA, Biological Report and Initial Site Assessment - Sunport Blvd Extension, Bernalillo County; Environmental Evaluation, Initial Site Assessment for hazardous materials, and Cultural Resources Oversight for ITS Systems Project, City of Albuquerque; BE/BA, CE for NEPA and Natural Resources On-Call Services, Statewide (New Mexico Department of Transportation)

# **Michael Anderson, PE**

Geotechnical Support

Michael Anderson, PE, the Principal Engineer for the Albuquerque office of Terracon, will provide geotechnical expertise. He has more than 30 years of geotechnical and construction materials testing engineering experience, as well as experience in geologic hazards evaluations and slope stability studies. He is extremely familiar with the area and any potential geotechnical issues along with COA and NMDOT standards and specifications, policies, guidelines, and procedures.

### Ferracon Education

MBA | University of Phoenix BS, Geological Engineering | Colorado School of Mines

Registrations/Affiliations PE, New Mexico | #12132

### **Relevant Experience**

I-25 Paseo del Norte Interchange Improvements; I-25 Montgomery Boulevard to Comanche Road Improvements; Unser Blvd. Improvements (I40 to Ouray); Albuquerque Rapid Transit; Sunport Boulevard Extension; San Pedro Drive Improvements; Uptown Boulevard Improvements

# Larry Medrano, NMPS

Survey Support

Larry W. Medrano established Precision Surveys, Inc. in May 1993 with one assistant. Over the past 29 years, he has overseen the growth of the firm to three locations with 25 employees. Precision Surveys, Inc. provides services throughout New Mexico. On February 05, 2010, passed the exam for Certified Federal Surveyor License from the U.S. Bureau of Land Management. On May 25, 2018, became a licensed Registered Professional Land Surveyor in the state of Texas.

### **DRECISION**. Registrations/Affiliations

Professional Surveyor, NM | #11993 Certified Federal Land Surveyor | #1340 NMPS, Past President ASPRS, Member

### **Relevant Experience**

Various Topography/Easement Surveys: MRGCD Albuquerque Main Canal; Pueblo of Sandia Irrigation System; US550 Santa Ana Commercial Store Site; US Highway 85; Rio Animas Road, Santa Ana; Hwy 313 to Calle Industrial

# 4. unique team knowledge

- Lee Engineering has provided COA with multiple phases of signal timing coordination plans, including downtown, and has designed traffic signal interconnect networks for over three hundred signalized intersections within the metro area.
- **Mr. Barricklow** has been managing COA projects for over 14 years and has developed a close relationship with the City's Project Managers and an in-depth understanding of City needs and goals.
- Mr. Barricklow's Safe Routes to School training, League of American Bicyclist Certified Instructor accreditation, and project experience on the pedestrian-centric design project on Conceptual Design for Central Avenue and Unser Boulevard Intersection provides proven traffic engineering expertise and complete streetscape design, advancing COA's multimodal initiatives.
- *Mr. Kruse* has authored countless safety studies within the AMPA.
- *Mr. Kruse* has designed hundreds of miles of fiber optic cable networks and numerous traffic signals throughout the AMPA.
- Lee Engineering has completed over 100 turning movement counts within the AMPA using the Miovision video system, which provides shared web access to regional agencies such as MRCOG.
- *Michael Cynecki* has nearly 30 years of municipal experience with 26 of those being the Traffic Engineer for the City of Phoenix.

With over 14 years of providing traffic engineering services to the City of Albuquerque, our Project Team has developed intimate knowledge of City processes and

procedures.

**Jonathan Pham** has diverse knowledge with hands-on experience in Signal, ITS, and Lighting Designs, Modeling, Traffic Studies, Crash Analysis, and Field Data Collection.

• **Jonathan Pham** has designed Signal, ITS, and Lighting designs from start to finish, including but not limited to preliminary field visits, coordination with clients, utility coordination, certification processes, design plans, quantities, and cost estimates.

 Michael Policastro has successfully navigated the T/LPA project processes for Design and Construction Phase Services for several recent federally funded projects. His experience includes but is not limited to PS&E Submittals, Utility, Railroad, ROW, & ITS Certifications, B2GNow & LCP Tracker, Estimates, Plan Set & Record Drawing Creation, and NMDOT Reimbursements.

• **Stephen Montaño** aims to develop solutions to transportation challenges benefiting the safety of all road users, public health, and accessibility by using his skills in evaluating the multimodal safety of roadways and intersections and analyzing traffic and crash data.

 Stephen Montaño has worked with small communities across the state to understand the safety vision of each community, given their safety challenges. Combining the community's input along with data-driven analysis, he has developed context-specific countermeasures to mitigate the safety challenges present in each community.

• Lee Engineering currently serves the City with work through the Traffic On-Call and Neighborhood Traffic Management Program On-Call contracts.

# III. Respondent Experience

# 1. previous relevant experience

# Traffic Engineering On-Call, City of Albuquerque

CONTACT: Tim Brown | 505-250-2587 YEAR SERVICE PROVIDED: 2020 - Present

> Through several iterations of various on-call contracts, Lee Engineering has been the city's preferred contractor for traffic engineering services. Most recently, in 2020, Lee Engineering was awarded the City of Albuquerque's Traffic Engineering On-Call. Under this contract to date, Lee Engineering has provided the city with various traffic engineering services ranging from traffic studies to construction standards authoring, and infrastructure design. Some notable tasks include: RTMC Assistance, Lead/Coal Rest-in-Red Operations, Preventative Median Solutions, Mastarm Design, Girard Signal Warrant, and Vista del Norte All-Way-Stop-Control Warrant Studies. *Paul Barricklow, as project manager, oversaw each of these efforts and led public meetings and presented findings when it was applicable.*

# Rainbow Traffic Calming Study, City of Albuquerque

# CONTACT: Diana Dolan | 505-768-3186

YEAR SERVICE PROVIDED: 2021 - Present

Vehicle speeds, limited intersection sight distances, and insufficient multimodal facilities pose a danger to pedestrians and bicyclists using the Rainbow Blvd. corridor between Paseo del Norte and the southern property line of Volcano Vista High. For this Traffic Calming and Pedestrian Safety Study, Lee Engineering deployed several pneumatic tubes and cameras to collect motor vehicle and multimodal traffic data. *Mr. Montaño analyzed this data, performed field visits, and engaged with residents* and stakeholders to understand the corridor's

safety challenges. The study's analysis led to several low-cost countermeasures with timely implementation durations to increase corridor safety such as: narrowing driving lanes, performing a road diet, implementing Rest-in-Red traffic signal operations, and recommending focused speed enforcement.

## Louisiana Boulevard ITS Improvements, City of Albuquerque

### CONTACT: Debbie Bauman | 505-768-3649 & Logan Patz | 505-924-3407 YEAR SERVICE PROVIDED: 2020 - Present

In the continuing effort to modernize and update ITS and Traffic Management infrastructure, the City of Albuquerque contracted Lee Engineering to design 2.36 miles of fiber-optic communications extension along Louisiana Blvd from Central Ave to Menaul Blvd. The design included ITS equipment upgrades and integration into the City's Automated Traffic Signal Performance Measures (ATSPM) system for all nine signalized intersections along the project corridor. *Michael Policastro oversaw the ITS upgrades* which incorporated vehicle and pedestrian/bicycle detection, CCTV, contemporary traffic signal controllers, and the installation of a Traffic Management & Database Server in the RTMC. Ongoing services involve ATSPM monitoring to refine traffic signal timing and develop a corridor coordination plan.

Lee Engineering's design adhered to the T/LPA development process by implementing city, state, and national standards and guidelines at every step. It encompassed plan set creations; environmental & cultural resource protection investigations; Utility, Railroad, ROW, Environmental, & ITS certifications; Engineer's Estimate; DRC and PS&E submittals; NMDOT utility installation permitting, and construction contract creation.

# **Horizon Blvd Signal Design and Intersection Improvements**

### (teamed with Parametrix) CONTACT: Bridgette Garret | 505-768-3679 YEAR SERVICE PROVIDED: 2020 - Present

Lee Engineering and Parametrix teamed with the City of Albuquerque to design the intersection of Alameda Blvd and Horizon Blvd. An adjacent development prompted the construction of an additional leg for the south side of the intersection. Based on the additional leg, modifications to the existing signal infrastructure were necessary. Plans included new vehicle detection, signals, and mastarms and included pedestrian facilities that were designed with standards from the Public Rights-of-Way Accessibility Guidelines (PROWAG) and Americans with Disabilities Act. *Mr. Pham assisted with the completion of the signal warrant analysis* and completed the lighting and signal design, which included design plans, costs, and quantities from start to finish, and is currently assisting with the Construction Phase Services.

Parametrix provided design and construction phase services for the Alameda Boulevard/Horizon Boulevard intersection improvements project. The design included an access drive to accommodate automobile and RV traffic, a gate for the existing fence, traffic signal improvements, realignment of the existing trail on the south side of Alameda Boulevard at the new access drive, ADA ramps, and permanent signing and striping.

# 2. project managers' city experience

Through his long history of working with the City of Albuquerque, **Project Manager, Paul Barricklow**, has had the opportunity to learn and apply COA procedures extensively. Beginning in 2007, Mr. Barricklow took over the Signal System Expansion project and led LEE through Phases IX – XVII, as well as meeting critical needs of the federally funded Signal System Phase ARRA project. Mr. Barricklow managed the PS&E, design of over 100 miles of single-mode fiber optic cable, 11 DMS signs, over 200 CCTV cameras, 27 traffic count stations, as well as multiple phases of signal coordination and timing for major corridors in Albuquerque. All expansion projects were completed through the Traffic Engineering Division, coordinated with NMDOT for Federal Funding, and completed within the DRC process.

**Deputy Project Manager, Jonathon Kruse,** has had the opportunity to manage several crucial City of Albuquerque projects and initiatives. Currently, he is managing the City of Albuquerque Neighborhood Traffic Management Program On-Call for Lee Engineering, and has completed or is progressing on 40+ small neighborhood studies and designs. Additionally, he was tasked with managing the successful migration and integration of city traffic infrastructure at the new RTMC.

# IV. Techincal Approach

# 1. understanding of project scope

Communication between the Lee Engineering Team and the City's Project Manager, Eric Michalski, will be conducted through our Project Manager, Paul Barricklow, who will be responsible for successfully completing all tasks. Specialized team members will be called upon on a project-by-project basis as need dictates.

Due to the nature of the project, Lee Engineering understands that the tasks required under this project may vary significantly from project to project and may include, but are not limited to, the following: traffic studies, traffic counts, signal designs, traffic calming designs, GIS data gathering, and input, public meetings, safety studies, street designs, construction contract document preparation, and other engineering duties.

### TRAFFIC STUDIES

Lee Engineering possesses a wealth of experience and knowledge in preparing clear, concise, and comprehensive traffic studies for a wide range of clients. We will use this expertise to provide the City with a quick and responsive team able to assess traffic issues and provide the City with a full study scope to complete the desired tasks. **Our extensive experience provides the City with a wide diversity of traffic study services.** These services include but are not limited to: traffic signal and all-way stop control

warrant studies, roundabout feasibility assessments, travel-time delay studies, delay and queue capacity calculations, auxiliary lane warrant analyses, access management assessments, and spot speed studies.

Our staff is current with best practices for conducting safety studies and road safety audits, including the application of the Highway Capacity Manual, 6th Edition, and the Highway Safety Manual procedures. Based on these principles, we calculate projected base crash incident rates and compare them to predicted rates under proposed mitigation scenarios. Our pedestrian and bicycle expert, Michael Cynecki, participated in the FHWA sponsored Central Avenue Road Safety Audit and is currently completing a similar effort for Lead and Coal.

### TRAFFIC COUNTS

A thorough data collection plan is the basis upon which a traffic study is built. Early in the scoping process, Lee Engineering addresses a data collection plan and identifies potential issues to ensure the data collected is the data required for the analysis and that the highest



level of accuracy is achieved. **We also provide in-house intersection turning movement counts (TMC's) for our clients.** With this equipment, we can provide traditional TMC's, roundabout TMC's, roadway ADT counts, pedestrian/bicycle counts, trip generation studies, gap studies, origin-destination studies, travel time, and parking studies without the delays. In addition to the turning movement counts, we also provide ADT counts to include volume, speed, and class. These additional statistics add value to traffic calming and warrant studies.

Our newest camera systems use artificial intelligence to process the video in real-time. Not only are the counts available immediately following the study, but the processors can also collect multiple vehicle classes, including bicycles and pedestrians.

### SIGNAL DESIGN

Lee Engineering has years of signal and ITS design experience for many communities within New Mexico, most notably in Albuquerque, where Lee Engineering has provided ITS design and planning for over a decade of the Traffic Engineering Department's ITS expansion program. We have provided signal

> designs beyond your standard eight-phase, four-legged variety, including the design and phasing for the Paseo del Norte/Jefferson Street single-point urban interchange. A Lee Engineering signal design is more than just the placement of signal heads, conduit, and wiring. A design from our team will look at the finer aspects such as pedestrian phasing requirements, nontraditional phasing and sequencing if needed, integration of a new signal into the ITS fiber-optic network, and equipment upgrades for controllers, conflict monitors, and conflict cards. Lee Engineering's hands-on in-the-cabinet

experience adds value to City projects by training and working with traffic signal technicians from design to signal turn-on.

### TRAFFIC CALMING DESIGNS

Lee Engineering has the vision and experience to recognize land use and urban design can go beyond just zoning, streets, and sidewalks. It is about integrating land-use choices and urban amenities into a cohesive plan that will promote efficient modes of travel without sacrificing quality living environments. Lee Engineering is extremely knowledgeable in both the City's complete streets policy and its Neighborhood Mitigation Program and will apply these already established City programs along with the latest national-level best practices, traffic calming, and complete streets concepts to provide a more harmonious and livable street network. Additionally, as a demonstration of Lee Engineering's in-depth knowledge of traffic calming and neighborhood traffic management programs, we have authored several traffic calming and neighborhood traffic management handbooks for communities such as the Village of Los Ranchos in Albuquerque and Las Campanas in Santa Fe.

### GIS DATA GATHERING AND INPUT

Geographic Information Systems (GIS) inventory plays an integral part in managing a city's resources. As such, it is paramount these systems be functional and accurate. Inventorying traffic signal equipment requires detailed knowledge of signal design, signal equipment, and field experience. As traffic signal and Intelligent Transportation Systems (ITS) designers, Lee Engineering has exceptional knowledge and experience in this realm. We have mapped hundreds of traffic signals for the City of Albuquerque, totaling nearly one thousand miles of traffic signal and ITS telemetry, created the city's Traffic Signal GIS database, and continue to maintain this database in support of City initiatives and projects.

### AUTOMATED TRAFFIC SIGNAL PERFORMANCE MEASURES (ATSPMS)

Lee Engineering is committed to using the most efficient and feasible tools available to support City operations. We are agnostic to advanced traffic management systems (ATMS), signal performance measures (SPMs), and detection platforms and work diligently to develop and optimize results in any situation. Our staff has been trained by attending UDOT and FHWA ATSPM training and workshop courses. With our comprehensive signal systems knowledge base, we go above and beyond basic ATSPM platform installation using performance metrics to make responsive, measurable improvements to traffic signal coordination and timing.

Lee Engineering's complete ATSPM service approach enables operators to enhance system monitoring and improve system performance through data-based measures. **Our clients receive the training and support they need to be able to make informed decisions** based on actionable data allowing them to make realtime improvements.

### PUBLIC MEETINGS

We begin each project by listening intently to develop a comprehensive understanding of the client's needs throughout the project. Whether it is concerned citizens or Council and staff with unique ideas and visions, Lee Engineering will hear concerns from project stakeholders before acting.

#### Lee Engineering employs a wide variety of outreach methods

including surveys, newspaper advertisements, website postings, formal presentations and displays, large format question and answer sessions, small group sessions, workshops, and design charrettes. More in-depth and personal outreach programs, where appropriate, could include contacting individual property owners, neighborhood associations, and community interest groups like the National Federation for the Blind of NM, GABAC, and BikeABQ. Lee Engineering can provide bilingual representatives to ensure the voices of all citizens are heard throughout the facilitation process.

### SAFETY STUDIES

Our team is at the forefront of safety analysis. We understand the use and application of the Highway Safety Manual (HSM) and

#### 1. understanding of project scope

Safe System approach to eliminate roadway fatalities and serious injuries for all road users supporting the City's Vision Zero initiative. Our engineers are skilled in analyzing crash data, identifying problem areas, and calculating predicted crash rates. Additionally, our team is adept at recommending safety countermeasures to proactively address observed safety challenges and avert subsequent safety risks. Furthermore, we are proficient at assessing potential countermeasure effectiveness by applying crash modification factors to predict crash rate reduction.

We are not afraid to think outside the box and are willing to investigate innovative solutions for any given problem. Lee Engineering recently recommended Rest-in-Red traffic signal operations to address speeding concerns for the Lead and Coal corridors. Rest-in-Red traffic signal operations are not currently in use anywhere in Albuquerque. Lee Engineering offered technical expertise by attending public meetings and discussing Rest-in Red operations, benefits, and safety implications. Another example of our innovative approach to safety is our pedestrian and bicycle safety analysis of the protectedpermitted left-turn at Paseo del Norte and I-25 SB for the NMDOT. Our evaluation determined that using a flashing yellow arrow would eliminate motor vehicle and pedestrian conflicts arising from permitted left-turn operations. Moreover, a flashing yellow arrow wouldn't sacrifice the operational benefit of running a permitted left-turn phase.

#### STREET DESIGN

Lee Engineering's sub-consultant, Parametrix, is well-suited to provide planning studies and reports, roadway and intersection improvements, geometric alternative analysis, drainage design, and construction contract document preparation to the City for all types of on-call projects. **Our extensive planning, design, and construction experience will provide for timely and cost-effective completion of the assigned work tasks.** 

Parametrix completed pre-design, final design, and construction administration services for all aspects of roadway projects for the COA. These projects include roadway widening and narrowing (road diets), intersection analysis and design, sidewalk improvements, site feasibility studies, parking lot improvements, trail crossings, and bicycle/pedestrian facility enhancements.

### LIGHTING DESIGN

Lee Engineering has the experience and expertise to complete street lighting design using different agency standards for typical arterial or residential lighting. The technical knowledge and availability of software to create customized lighting plans for specific needs such as roadway lighting, pedestrian lighting, and decorative lighting are available. Should a special request be made, Lee Engineering has the background knowledge to design lighting scapes to meet the project needs. **Using AGI-32 illumination software, we can design lighting plans to meet luminosity criteria not covered by the standards**. Our team will complete the lighting analysis and review the lighting warrants. Recommended lighting and mitigation designs will be completed using the Development Process Manual, AASHTO Roadway Lighting Design Guide, NCHRP Report 152, and the Night Sky Protection Act (NMSA 1978).

### CONSTRUCTION CONTRACT DOCUMENT PREPARATION

On-call tasks requiring engineering design will require construction contract documents, including estimates, design plans, and specifications. Lee Engineering and our sub-consultants are well versed in the City of Albuquerque document procedures and will follow the City-approved milestone process. This process requires a cursory 30% plan review, 60% DRC review, 90% DRC review, and 100% Final submittal. Each milestone deliverable will include an engineering estimate to ensure the project remains within budget. **Lee Engineering and our sub-consultants will work with City staff to ensure contract book documents are accurate and bid-ready within the approved project schedule.** 

### FEDERAL FUNDING / CERTIFICATIONS

The Lee Engineering team has extensive experience with federally funded projects. Examples of our more recent federally funded projects conducted specifically for the City of Albuquerque include ITS – Albuquerque Traffic Management – Louisiana Blvd Improvements, Alameda Blvd Improvements, East Central Ave Improvements, Zuni Roads Improvements, and ITS – Albuquerque Traffic Management System Phase XVII. As Principal, Paul Barricklow managed all five projects throughout and oversaw Daniel B. Stephens & Associates work conducting environmental investigations and cultural studies. **We have previous City experience to obtain** 

## 2. approach to services

The team members selected for this contract will have specialized skill sets uniquely suited to complete any task associated with this On-Call. Our team is proactive, ready to start work even on short notice, and returns calls and e-mails the day they are received. Once Lee Engineering has received a request for services, our Project Manager, Paul Barricklow, or our Task Managers, will immediately coordinate with Eric Michalski to establish project goals from a City of Albuquerque perspective. Lee Engineering will take those established goals and create a work plan including required tasks, person-hours, a schedule, and deliverables for submittal to Mr. Michalski. Once the City provides a notice-to-proceed, we will mobilize team members to meet the established milestones. Lee Engineering will pro-actively provide Mr. Michalski with periodic progress reports documenting task progress and any project challenges ensuring that project goals are maintained. With this proactive and communicative plan, the Lee Engineering team will provide this On-Call with <u>on-time and on-budget projects.</u>

### Project Kick-Off

Lee Engineering will conduct a kick-off meeting to explore solutions and develop project milestones and schedules with COA upon project initiation. Once the scope of work, milestones, and schedules are agreed upon, our Project Manager, Paul Barricklow, will distribute assignments with deadlines and budget requirements to the Lee Engineering team.

### QA/QC Management

We will employ an evaluation process to review plans, data, and technical documents using a QA/QC record sheet. This record sheet will be used to document all major deliverables with dates, review comments, and approval from the QA/QC Manager using a "red/yellow/green" review system. The QA/QC record sheet will have comments by the reviewer shown in red, resolution of the comments noted in *yellow*, and the Project Manager's approval of comments noted in green. Additionally, client comments on deliverables will be documented in this sheet and reviewed by the Project Manager with proposed resolutions of the comments noted by the consultant and returned to COA with any revised submission. Lee Engineering will hold internal review meetings each week to evaluate completed tasks and deliverables and ensure the proposed solutions align with the initial project goals. We will also submit progress review/status reports to the City of Albuquerque. These progress reports will help ensure tasks are being completed as expected, help manage productivity, and serve as early detection of any issues that may arise.

## 3. specialized problem solving techniques

Based on our experience with similar projects in Albuquerque, the following attributes build the foundation for our team's technical problem solving:

- Lee Engineering's staff of in-house PEs and PTOEs allow for project scheduling flexibility to meet the tightest of schedules. We have a variety of technical specialists in each of the Traffic On-Call's focus areas to call upon based on project needs.
- Lee Engineering is already applying complete street concept principles that the City of Albuquerque has identified in its policies. Mike Cynecki is a Bicycle and Pedestrian expert.
- Lee Engineering provides extensive experience and innovative solutions for signal timing coordination plans, including single intersections, corridor studies, and grid-network system coordination.
- Lee Engineering has the in-field practical experience and "in-the-cabinet" knowledge that can be leveraged for speedy implementation of signal timing alternatives.
- We are experts in VISSIM, SYNCHRO, CORSIM, HSC, etc., through our years of hands-on application.

# V. COST CONTROL

# 1. techniques for cost control and estimating

Our Team recognizes that maintaining the project schedule and costs are crucial to the success of the project. Lee Engineering takes an organized and systematic approach to managing and documenting the Team's progress and work efforts throughout the course of the project.

# Cost Control of Design Process

LEE's budget management philosophy is based on frequent communication, assembling an experienced team of professionals, defining a workable schedule, a budget that is specific and detailed, and routinely monitoring work progress. Our Project Manager will oversee staffing commitments, timely deliveries, and product quality. If new issues come to light that could impact a project's scope, schedule, or budget, LEE proactively calls the City of Albuquerque Project Manager and presents these issues so viable solutions and decisions can be made quickly and efficiently.

# Cost Control of Construction Cost

In the early stages of the project development, LEE estimates the construction cost using planning level costs to verify that the design will not over-shoot the budget. These costs are reviewed and fine-tuned with better estimated costs as the design progresses. If it is determined that the cost estimate will exceed available funds, LEE will discuss with the City and evaluate the design to look for alternative construction methods or products that might reduce costs. Additionally, we will incorporate the use of "Bid Alternates" which allow the flexibility if the "Base Bid" is below the project budget.

# Cost Estimating Techniques

LEE uses several techniques when developing construction cost estimates. LEE maintains an in-depth record of past project bid results specifically for traffic related items. Our first resource is to look at recent bid pricing from our past projects, within the past year. This in-house database is critical in estimating the unique items purchased through various projects. Bid item estimating is also compared against pricing data provided by both the COA and NMDOT.

Furthermore, and because many of our project's use specialized products, Lee Engineering often calls the manufacturers and the contractors to provide the most current estimates. This has become critical in recent months to ensure the cost estimates capture the price volatility and estimate project impacts for long lead items. For example, DMS overhead structures are 14 to 18 months out and at a 40% greater cost.

# 2. previous work cost comparisons

# BID AWARD / FINAL COST ESTIMATE COMPARISON

The projects listed below illustrate the attention to detail and market awareness of Lee Engineering's cost estimating techniques. The bids came in 5% to 8% under the engineer's estimate.

NAME OF PROJECT	DATE OF BID	NO. OF BIDS	FINAL COST ESTIMATE	BID AWARD \$
ITS - Albuquerque Traffic Management - Louisiana Improvements	Dec. 14, 2021	3	\$1,686,058.62	\$1,555,867.05
Rio Bravo Adaptive Signal Control and Fiber Optic Installation Project	Oct. 14, 2021	2	\$1,040,337.23	\$985,744.38

In addition to traditional federally funded project cost estimating, Lee Engineering has unsurpassed experience managing and evaluating on-call bids. We have the skills to compare COA labor-hour cost proposals and on-call price agreement bids with historic unit prices to evaluate on-call construction proposals.

With our extensive bidding and on-call agreement proficiency, we help our clients avoid unnecessary contractor markups. We frequently evaluate on-call price agreement bids with non-standard units such as "gallons of paint", "equipment hours" and "labor hours" to ensure confidence in bid costs, designs and construction services.

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# appendix

- Agreement and Insurance Certification Form

- General and Professional Liability Insurance Forms

- Pay Equity Worksheet | PE10-249

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 Name City WideOn-Call Engineering Services
Project Number 7206.00; 7207.00; 7208.00
Date 5/24/2022 Firm Name Lee Engineering, LLC
Signature
Title Principal, Lee Engineering LLC
STATE OF NEW MEXICO )
) ss
COUNTY OF BERNALILLO )
The above Certification was subscribed before me, the undersigned authority, by:
Paul Barrickelow
who swore upon oath that this Certification was signed of free act and deed, on this
24th day of May , 2022
(Notary Public)
My commision expires: February 25, 2023
STATE OF NEW MEXICO NOTARY PUBLIC

Ronak Bhakta Commission No. 1124365 February 25, 2023

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### **CERTIFICATE OF LIABILITY INSURANCE**

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THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER.         CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLI BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURERS), AUTHOR 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 endo if SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).         PRODUCER       CONTACT RAME: Travens Warren Insurance Agency, Inc. 10011 W. Gulf Bank Rd. Houston, TX 77040       CONTACT RAME: TAXES MUTUAL Insurance Company       22946 INSURER A : Texas Mutual Insurance Company       22946 INSURER A : Texas Mutual Insurance Company       22946 INSURER B : INSURER B : INSURER C : INSURER C : INSURER C : INSURER C : INSURER F :       INSURER C : INSURER C : INSURER C : INSURER F : COVERAGES       INSURER C : INSURER C : IN
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G&A Outsourcing, LLC dba G&A Partners 17220 Katy Frwy; Suite 350 Houston, TX 77094       INSURER C:         INSURER D:       INSURER D:         INSURER F:       INSURER F:         COVERAGES       CERTIFICATE NUMBER:         THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PE INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TE EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.         NSR LTR       TYPE OF INSURANCE       ADDL SUBR WD       POLICY NUMBER       POLICY EFF (MM/DD/YYY)       POLICY EXP (MM/DD/YYY)         COLAIMS-MADE       OCCUR       ADDL SUBR WD       POLICY NUMBER       POLICY EFF (MM/DD/YYY)       POLICY EXP (MM/DD/YYY)       EACH OCCURENCE       S         MED EXP (Any one person)       S       MED EXP (Any one person)       S       MED EXP (Any one person)       S         CENT ACCEPCATE LIME ADDIVES DED:       CENT ACCEPCATE LIME ADDIVES DED:       S       PERSONAL & ADV INJURY       S
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INSURER E :         INSURER E :         INSURER F :         COVERAGES       REVISION NUMBER:         THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PE         INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TEL EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.         NSR       TYPE OF INSURANCE       ADDI SUBR INSD WVD       POLICY EXP POLICY EXP       POLICY EXP POLICY EXP         COMMERCIAL GENERAL LIABILITY       ADDI SUBR       POLICY NUMBER       POLICY EXP POLICY EXP       EACH OCCURRENCE       \$         CLAIMS-MADE       OCCUR       OCCUR       BODICY NUMBER       POLICY EXP POLICY EXP       EACH OCCURRENCE       \$         CLAIMS-MADE       OCCUR       BODICY NUMBER       POLICY EXP PREMISES (Ea occurrence)       \$       MED EXP (Any one person)       \$         CENTRAL & OCCRECATE LIMIT ADDIJES DED:       CENTRAL & ADV INJURY       \$       CENTRAL & ADV INJURY       \$
COVERAGES       CERTIFICATE NUMBER:       REVISION NUMBER:         THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PE INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TEL EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.         NSR LTR       TYPE OF INSURANCE       ADDL SUBR INSD WVD       POLICY NUMBER       POLICY EFF (MMVDDYYYY)       POLICY EXP (MMVDDYYYY)         COMMERCIAL GENERAL LIABILITY       ADDL SUBR INSD WVD       POLICY NUMBER       POLICY EFF (MMVDDYYYY)       POLICY EXP (MMVDDYYYY)       LIMITS         CLAIMS-MADE       OCCUR       OCCUR       S       MED EXP (Any one person)       S         CENTL ACCRECATE LIMIT ADDITES DED:       CENTLA ACCRECATE LIMIT ADDITES DED:       S       MED EXP (Any one person)       S
Content for the instruction
NSR LTR     TYPE OF INSURANCE     ADDL     SUBR WVD     POLICY NUMBER     POLICY EFF (MM/DDYYYY)     POLICY EXP (MM/DDYYYY)       Image: Commercial general liability     Image: Commercial genercial general liability
COMMERCIAL GENERAL LIABILITY       EACH OCCURRENCE       \$         CLAIMS-MADE       OCCUR       DAMAGE TO RENTED PREMISES (Ea occurrence)       \$         MED EXP (Any one person)       \$         PERSONAL & ADV INJURY       \$         CENTRAL ACCRECATE LIMIT ADDUES DEP:       \$
CLAIMS-MADE OCCUR CLAIMS-MADE
MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ CENTRAL ACCRECATE LIMIT ADDUES DED:
PERSONAL & ADV INJURY \$
GENERAL AGGREGATE GENERAL AGGREGATE G
OTHER: S COMBINED SINGLE LIMIT
AUTOMOBILE LIABILITY
OWNED SCHEDULED
HIRED NON-OWNED BODILY INJURY (Per accident) \$
AUTOS ONLY AUTOS ONLY (Per accident) 5
EXCESS LIAB CLAIMS-MADE
DED RETENTION \$ \$
A WORKERS COMPENSATION AND EMPLOYEPS' LIABILITY
ANY PROPRIETOR/PARTNER/EXECUTIVE Y/N 0001076234 2/23/2022 3/1/2023 E.L. EACH ACCIDENT \$ 1,0
(Mandatory in NH)
If yes, describe under DESCRIPTION OF OPERATIONS below E.L. DISEASE - POLICY LIMIT \$ 1,0
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required) Form WC 42 03 11, Texas Professional Employer Organization (PEO) Endorsement, extends coverage to the covered employees of Lee Engineering, LL Stient of the Named Insured.

Policy includes Form #WC4203 04 B Texas Waiver of Our Right to Recover From Others Endorsement in favor of certificate holder where required by written contract.

CERTIFICATE HOLDER	CANCELLATION
	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
Lee Engineering, LLC 3030 LBJ Freeway, Suite 1660 Dallas, TX 75234	AUTHORIZED REPRESENTATIVE

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## Pay Equity Reporting Form





Bernalillo County Www.bernco.gov



Water Authority www.abcwua.org

## Company Details

Com	ipany Name	Lee Engineering, LLC		Mailing	g Address	8220 San Pedro Drive NE Suite 150 Albuquerque NM 87113		
Phor	ne	505-338-0988						
Ema	il Address	smorrison@lee-eng.com		NM E	mployees?	ye	S	
Job	Category				No. Femal	es	No. Males	Gap (Abs. %)
1.1	Exec/Senior L	evel Officials/Mgrs			0		1	N/A
1.2	First/Mid Leve	l Officials/Mgrs			0		0	N/A
2	Professionals				0		6	N/A
3	Technicians				0		2	N/A
4	Sales Workers	3			0		0	N/A
5	Office and Adr	nin. Support			1		1	47.62%
6	Craft Workers	(Skilled)			0		0	N/A
7	Operatives (Se	emi-Skilled)			2		1	86.45%
8	Laborers (Uns	killed)			0		0	N/A
9	Service Workers			0			0	N/A
	Overall Total			3			11	70.92%

Total # of Females (all categories)	3	Total # of Males (all categories)	11
Total # Female Only Job Categories	0	Total # Male Only Job Categories	3
Total # Part Time Females	2	Total # Part Time Males	2
Female % Workforce	21.43%	Male % of Workforce	78.57%
Total # Employees	14	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.

Sharon Morrison

May 2, 2022

Name and Title

Sharon Morrison CFO

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.

Certified - Overall Gap is 0%

Gender Pay Equity Representative

Uncertified - Overall Gap is more than 0% Company ID: 639