

Request for Proposals for

Citywide On-Call Engineering Services

Transportation & Storm Drainage

Project No's: 7843, 7844, 7845

Submitted to:



City of Albuquerque
May 20, 2020, 3:00 pm



WSP USA Inc.
6100 Uptown Boulevard NE
Suite 700
Albuquerque, NM 87110
T: 505.881.5357

wsp.com

wsp



May 20, 2020

Eric Michalski, City of Albuquerque Project Manager
Capital Implementation Program (CIP) Division Office
One Civic Plaza
7th Floor, Room 7057
Albuquerque/Bernalillo County Government Center
Albuquerque, NM 87102

RE: RFP for Citywide On-Call Engineering Services for Transportation and Storm Drainage

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

The City of Albuquerque's (COA) Department of Municipal Development (DMD) continues to advance the enhancement of the physical and cultural development of our city by overseeing the security and maintenance of its facilities, streets, storm drains, and traffic signals, as well as the development and design of capital infrastructure. As the demands for infrastructure improvements increase, the COA can rely on WSP USA Inc. (WSP) as a trusted partner to help in the delivery of these important projects for our community during these changing and challenging times. Since the effects of COVID-19 are difficult to predict, WSP will continue to find innovative ways to be responsive and deliver quality projects. We will use several sources to ensure current economic trends are incorporated into our construction cost estimates and will continue to utilize tools such as Bluebeam for plan review, or virtual platforms for public outreach to keep projects on schedule with a constant flow of communication between our staff and the DMD.

WSP has continued to develop Project Managers that understand the COA's processes and standards, as well as the importance of responsive communication. To increase our capacity to deliver more projects, we have selected Andrew Sutliff, PE to be our Project Manager for this contract. He has led multiple on-call tasks for the COA. Most recently, Andrew delivered final plans for the Comanche/Vassar Intersection Improvements, a task that he managed and designed and will provide engineering services through construction. Understanding that Andrew is a new, yet qualified Project Manager, WSP's senior staff will advise and guide Andrew in the delivery of this contract as part of our commitment to the COA. Additionally, we have 50 qualified team members available in New Mexico to support Andrew and assist in the delivery of this contract as needed.

Our local staff is backed by the national resources of a leading, global, full-service professional services firm. This depth of experience increases our capability to consistently manage all aspects of this contract, drawing upon our most appropriate local, regional, and national experts. We have carefully crafted our team to meet all your needs, those of today as well as tomorrow. Our team can help you achieve your project goals through this on-call contract, pulling from our wide-ranging experience and commitment to technical excellence and innovation.

WSP commits to proactively listening and communicating with you, while providing viable and creative project solutions to address your needs. We appreciate this opportunity to present our qualifications and look forward to your favorable consideration of our proposal and continued relationship with the City of Albuquerque.

Sincerely,

WSP USA Inc.

A handwritten signature in blue ink, reading 'Robert Ortiz', is written over a light blue horizontal line.

Robert Ortiz, NM PE 12719
Principal-in-Charge



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I.

General Information

I. General Information

WSP is pleased to submit this proposal for the Citywide On-Call Engineering Services (Transportation and Storm Drainage) contract. WSP has a long history providing quality services to the COA and has the capacity and the capability to continue delivering successful projects for our community. Our multi-disciplinary engineering and planning professionals specialize in civil, transportation, drainage, and structural engineering, as well as environmental planning and permitting, cultural resources, and public involvement. We are skilled at completing project certifications and meeting federal funding requirements for state and federally funded projects.

1.1 Provide name, address, and telephone number of respondent, and, if firm, when firm was established.

WSP USA Inc. is located at 6100 Uptown Boulevard NE, Suite 700, Albuquerque, NM 87110. Our telephone number is 505.881.5357. Our Albuquerque office opened in 1994, while WSP and its predecessors have been in operation for over 130 years since being established in 1885. WSP has been providing services to the COA since 1994.

1.2 Provide number of employees, technical discipline, registration, and registration number.

WSP NM ROSTER OF RESOURCES	
Staff Capability	No. of Personnel
Transportation Engineers	6
Drainage Engineers	3
Construction Project Managers	1
Construction Inspectors	10
Structural Engineers	5
Engineers in Training	6
Designers	4
Transportation Planners / Modelers	3
Environmental Planning Group	4
Interns	2
Project Accountant	1
Administrative/Support Staff	5
Total WSP Employees	50

NM PE'S ASSIGNED TO THIS CONTRACT	
Professional Engineer (PE)	Contract Role
Robert Ortiz, NM PE 12719	Principal-in-Charge & Construction Management Lead
Andrew Sutliff, NM PE 26129	Project Manager
Paul Steffin, NM PE 15352	Traffic Engineering Lead
Virginia O'Connor, NM PE 25310	Traffic Engineer
Terry Ward, NM PE 25183	Specifications & Constructibility Lead
Farshad Omidvaran, NM PE 10720	Drainage Engineering Lead
Carlos Romo, NM PE 22650	Drainage Engineer
Meghan Myers, NM PE 24690	Structural Engineering Lead

1.3 Indicate where the services are to be performed.

OFFICE LOCATIONS		
Subconsultant	Discipline	Address
WSP USA Inc.	Prime Engineering Consultant	6100 Uptown Blvd NE, Suite 700, Albuquerque, NM 87110
Cartesian Surveys Inc.	Traditional Surveying; Right-of-Way (ROW)	1005 21 st Street SE, Rio Rancho, NM 87124
Maser Consultants, P.A.	LiDAR Surveying; ROW; Subsurface Utility Engineering (SUE)	2703 Broadbent Pkwy NE, Suite B, Albuquerque, NM 87107
YeDoma Consultants, LLC	Geotechnical Engineering; Materials Testing	523 Louisiana Blvd SE, Albuquerque, NM 87108
MRMW Landscape Architects	Landscape Design	1102 Mountain Rd NW, Suite 201, Albuquerque, NM 87102
Architectural History Services	Architectural History	2833 Plaza Verde, Santa Fe, NM 87507

II. Project Team Members

II. Project Team Members

2.1 Provide an organization plan for management of the project.

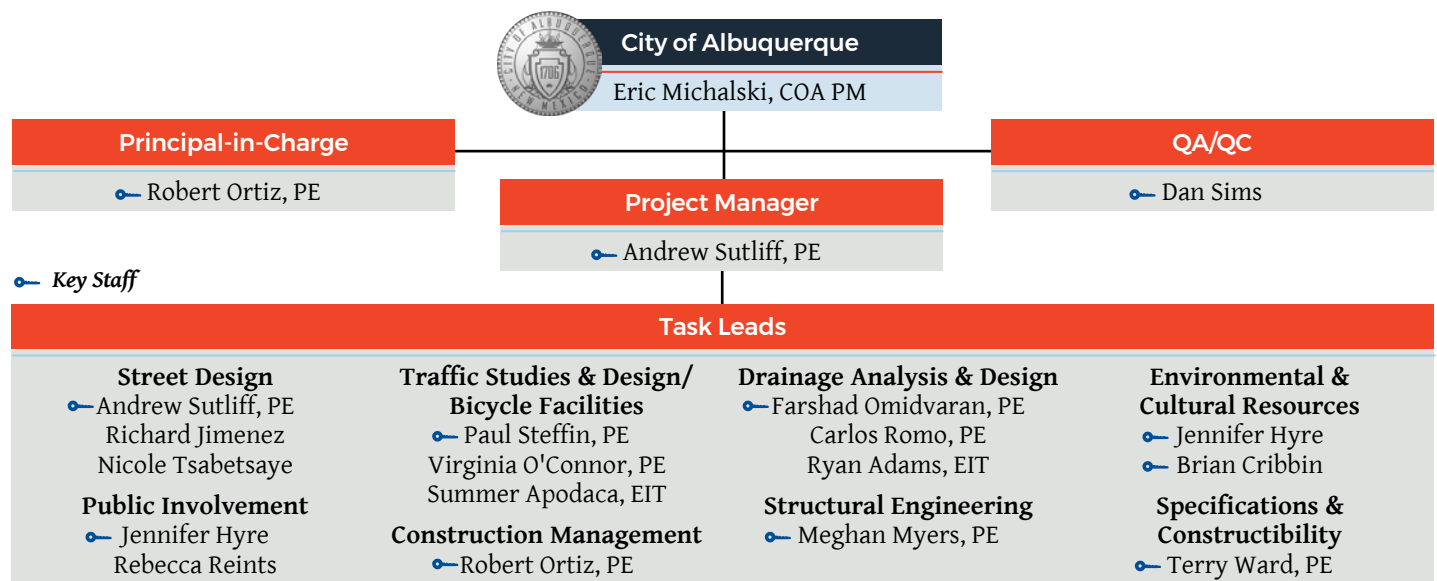
An on-call consultant must perform as a seamless extension of the COA, possess a thorough understanding of project development processes, and have the resources available to provide quality work in a timely manner. The COA has relied on WSP and Dan Sims as a trusted partner to deliver projects. To address the diverse challenges posed by this on-call contract, it is essential to assemble and develop a qualified consultant team with committed leadership.

WSP has selected **Andrew Sutliff, PE** as our proposed Project Manager, and his team members for their relevant experience, history of schedule adherence, and understanding of the COA's objective to develop skilled teams and improved project delivery capacity.

Andrew has served as a Deputy PM and On-Call Task Manager for the City and with his team has proven their ability to coordinate with multiple COA disciplines and outside agencies, promptly resolve project issues, maintain project schedules, and perform efficiently on their task assignments. He will be your main point of contact for day-to-day operations and the execution of all task orders under this contract.



"My personal goal is to work as a trusted partner with the COA and deliver quality projects assigned under this contract in a timely, cost-effective manner." - Andrew Sutliff



2.2 Identify all consultants to be used on the project.

WSP has chosen to partner with our proposed subconsultants because they are experts in their perspective disciplines, and because we have built a successful working relationship with them from previous COA On-Call contracts based on mutual trust and quality project delivery.

- Cartesian Surveys Inc.** (Cartesian) will provide traditional surveying and ROW mapping services.
- Maser Consultants, P.A.** (Maser) will provide LiDAR surveying and ROW mapping, as well as SUE services including utility coordination.
- YeDoma Consultants, LLC** (YeDoma) will provide geotechnical engineering services including pavement evaluations, as well as materials testing during construction.
- MRWM Landscape Architects** (MRWM) will provide landscape design services.
- Architectural History Services** (AHS) will provide architectural history services.

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



Andrew Sutliff, PE
**PROJECT
MANAGER**

Andrew is proposed to serve as our Project Manager. He has five years of experience in construction and design leading diverse aspects of civil engineering projects. He has served as a Task Manager for the COA and through this experience has become increasingly familiar with COA design standards and the Development Process Manual (DPM) process.

Andrew possesses a passion for client service and a drive to champion innovative methods for coordinating with project teams and stakeholders.

Education

BS, Civil Engineering, University of New Mexico

Licenses and Certifications

NM PE 26129

Professional Organization

ASCE New Mexico - Northern Branch, Vice President

Relevant Experience

- COA On-Call Engineering Services (3 contracts) | Deputy Project Manager, Task Manager, and Lead Designer
- COA Comanche / Vassar Intersection Improvements | Task Manager and Lead Designer
- COA St. Joseph's Drive Pond Construction and Drainage Improvements | Task Manager and Lead Designer
- COA North 4th Street Sidewalk Improvements | Roadway Designer

Roadway Team



Richard Jimenez (25 years)

Education: AS, CAD and Design; **Experience:** COA Unser Boulevard SW Improvements, NMDOT 528 Reconstruction Phase II



Nicole Tsabetsaye (<1 year)

Education: BS, Civil Engineering; **Experience:** COA 12th Street and Menaul Great Streets Improvements, COA Comanche / Vassar, COA Wells Park ADA Evaluation, COA Complete Streets Striping



Paul Steffin, PE, PTOE
**TRAFFIC
ENGINEERING LEAD**

Paul is proposed to serve as our Traffic Engineering Lead because he has 23 years of experience in bicycle and pedestrian planning/design, traffic control plans, intersection signalization, and corridor lighting. Paul was the Project Manager for a Citywide Engineering On-Call contract, which included a Multi-Use Trail Bollard Study and the Molten Rock / Unser Boulevard Traffic Signal Design and Warrant Study. He also has experience working with the Greater ABQ Bicycle Advisory Committee (GABAC) and Greater ABQ Recreational Trail Committee (GARTC).

Education

BS, Civil Engineering, University of Washington

Licenses and Certifications

NM PE 15352; NM PTOE 2773

Professional Organization

ITE, Member; ITS New Mexico, Secretary

Relevant Experience

- COA 12th Street and Menaul Great Streets Improvements | Traffic Design Lead
- COA Unser Boulevard SW Improvements | Deputy Project Manager
- COA Ladera Drive NW Improvements Phase I | Project Manager
- COA San Pedro Road Diet Study and Design | Project Manager

Traffic Design Team



Virginia O'Connor, NM PE 25310 (5 years)

Education: MS, Civil Engineering (in-progress); **Membership:** ITE NM, Member / ITS NM, Member; **Experience:** COA Comanche / Vassar, NMDOT MLK/I-25 Traffic Study, MRCOG ABQ Active Traffic Management Plan



Summer Apodaca, NM EIT 7222 (3 years)

Education: ME, Civil Engineering; **Membership:** ASCE NM, President; **Experience:** COA Citywide On-Call Engineering Services (2 contracts)



Farshad Omidvaran, PE, CFM
DRAINAGE
ENGINEERING LEAD

Farshad is proposed to serve as our Drainage Engineering Lead because he has 37 years of diverse experience in hydrologic and hydraulic engineering with extensive knowledge of the latest analysis methods and computer programs. Prior to joining WSP, Farshad was a Drainage Development Engineer with NMDOT for over 25 years. He was responsible for designing transportation drainage facilities; preparing technical reports; applying for Clean Water Act permits; providing technical support to district and legal division offices; and preparing and reviewing contractor's SWPPPs.

Education

BS, Civil Engineering, University of New Mexico

Licenses and Certifications

NM PE 10720; CFM NM-05-00143

Relevant Experience

- COA 12th Street Great Streets Improvements | Drainage Engineering Lead
- COA Molten Rock / Unser Blvd Intersection | Drainage Engineering Lead
- NMDOT 528 Reconstruction Phase II | Drainage Engineering Lead
- Bernalillo County Eubank Blvd Improvements | Drainage Engineering Lead

Drainage Engineering Team



Carlos Romo, NM PE 22650 (8 years)

Education: BS, Civil Engineering; **Experience:** COA 12th Street Great Streets Improvements, COA Walter Street Storm Drain Improvements, NMDOT 528 Reconstruction Phase II



Ryan Adams, NM EIT 7513 (2 years)

Education: BS, Civil Engineering;
Membership: ASCE New Mexico, Member;
Experience: COA Citywide On-Call Engineering Services (2 contracts), COA Ladera Improvements Phase II



Jennifer Hyre
PUBLIC INVOLVEMENT &
ENVIRONMENTAL LEAD

Jennifer is proposed to serve as our Public Involvement and Environmental Lead because she has over 20 years of experience facilitating public and stakeholder outreach campaigns that are scaled to the complexity and nuances of each project and client. Jennifer was formerly an environmental analyst with the NMDOT Environmental Bureau responsible for managing the environmental processes for federal and state funded transportation projects. Her expertise includes endangered species assessments, Clean Water Act planning/permitting, cultural resources management, controversial public involvement campaigns, and NEPA analysis. She has worked with numerous local and tribal governments, state and federal agencies, public works departments, consultant and government engineers, and environmental consultants.

Education

Master's Certificate Program for NEPA;
BS, Environmental Science and French, Juniata College

Professional Organization

ACEC, Governmental Affairs Committee Member

Relevant Experience

- COA Albuquerque International Sunport (AIS) Wildlife Hazard Assessment Update | Environmental Lead
- COA North 4th Street Sidewalk Improvements | Environmental Lead
- NMDOT NM 528 Reconstruction | Environmental Lead

Public Involvement & Environmental Team



Brian Cribbin (20 years)

Education: MA, Anthropology; BA, History;
Experience: COA North 4th Street Sidewalks, Bernalillo County Prosperity Ave Quiet Crossing



Rebecca Reints (5 years)

Education: MS, Environmental Biology;
Experience: NMDOT US 64 Corridor Study, NMDOT NM 566 Bridge Replacement, NCDOT NC 50 (Creedmore Road) Widening



Brian Cribbin
CULTURAL
RESOURCES LEAD

Brian is proposed to serve as our Cultural Resources Lead because he has over 20 years of experience working on transportation projects as a Field Archaeologist, Cultural Resources Principal Investigator, and NEPA Agency Reviewer providing QA/QC of the environmental certification and permitting process. Before joining WSP, Brian served as Tribal/Local Public Agency Coordinator for NMDOT. He has handled project consultation with federal agencies to mitigate effects to historic and traditional cultural properties, and sensitive natural resources.

Education

MA, Anthropology, University of New Mexico;
BA, History, State University of New York at Buffalo

Licenses and Certifications

NM Archaeological Investigation Permit

Relevant Experience

- COA North 4th Street Sidewalk Improvements | Cultural Resources Section 106 Lead
- City of Rio Rancho Lincoln Avenue Phase II | NEPA Compliance Reviewer
- Bernalillo County Prosperity Ave Quiet Crossing | NEPA Compliance Reviewer
- NMDOT Taos Downtown Corridor | Cultural Resources Reviewer



Robert Ortiz, PE
PRINCIPAL-IN-CHARGE / CONSTRUCTION MANAGEMENT LEAD

Robert is proposed to serve as our Principal-in-Charge and Construction

Management Lead because he has more than 36 years of experience in construction management, construction programs administration, and transportation. Robert served for 27 years within the construction program of the NMDOT 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.

Education

BS, Mechanical Engineering,
University of New Mexico

Licenses and Certifications

NM PE 12719

Relevant Experience

- COA Daytona Transit Facility Upgrades for Electric Buses | Assistant Project Manager
- NMDOT Construction Management / Augmentation Services | Project Manager
- City of Santa Fe Cerrillos Road Phase IIc | Project Manager
- AMAFCA Construction Management On-Call Services | Project Manager



Meghan Myers, PE
STRUCTURAL
ENGINEERING LEAD

Meghan is proposed to serve as our Structural Engineering Lead because she is a senior engineer at WSP with 12 years of experience in structural design. She has managed and designed a variety of structural projects and has completed successful projects as Lead Structural Engineer and Project Manager for task orders on major infrastructure improvement projects. Meghan thoroughly understands all phases of structural design and analysis.

Education

MS, Structural Engineering, Rutgers University;
BS, Civil Engineering, Cornell University

Licenses and Certifications

NM PE 24690

Professional Organization

ACEC, Young Professionals Committee

Relevant Experience

- NMDOT On-Call Bridge Design Services | Project Manager
- NMDOT NM 6 Rio Grande Bridge Replacement | Structural Lead
- NMDOT NM 574 over La Plata River | Structural Lead



Dan Sims
QA/QC
LEAD

Dan is proposed to serve as our QA/QC Lead because he has over 26 years of experience in transportation design, specializing in urban roadway design, PROWAG compliance, and complete streets concepts. He has extensive experience leading and designing roadway projects, and is familiar with COA standard practices such as the Complete Streets Ordinance. He thoroughly understands the Design Review and Construction Section and DMD requirements. **Dan will continue to support and advise Andrew Sutliff in the delivery of this contract as part of his commitment to the City of Albuquerque.**

Education

Coursework, Adams St. College/University of New Mexico

Professional Organization

ACEC COA Committee, Member

Relevant Experience

- COA Citywide On-Call Engineering Services | Project Manager
- COA 12th Street and Menaul Great Streets Improvements | Deputy Project Manager and Lead Designer
- Ladera Drive NW Improvements Phase II | Project Manager
- COA Unser Boulevard SW Improvements | Transportation and Drainage Design



Terry Ward, PE, PMP
SPECIFICATIONS &
CONSTRUCTIBILITY LEAD

Terry is proposed to serve as our Specifications and Constructibility Lead because he has 35 years of professional engineering experience and extensive expertise in construction contract specifications and constructibility. He has worked on contracts for multiple procurement methods and with COA standards and specifications. Terry specializes in assessing and mitigating construction risks in the design phase to provide the overall best value for owners. He has worked on all phases of project delivery and is a certified Project Management Professional (PMP) from the Project Management Institute.

Education

MS, Infrastructure Systems Engineering, University of Minnesota; BS, Civil Engineering, North Dakota State University

Licenses and Certifications

NM PE 25183, PMP 1529212

Relevant Experience

- COA AIS Parking Ramp Painting and Wayfinding Project | Project Engineer
- COA AIS Basic Economy Parking Lot | Project Engineer
- Bernalillo County Quiet Crossing at Prosperity Project (COA Specifications) | Project Engineer
- City of Rio Rancho Specifications Development | Project Manager

Each of our team members has extensive COA experience from large multi-discipline projects to on-call tasks. We will seek opportunities to add value and reduce cost through our collective experience and knowledge of the City's processes and procedures.

For example, Andrew Sutliff is the Task Manager and Lead Designer

of the St. Joseph's Drive Pond Construction and Drainage Improvements project. He is leading the effort to relocate an existing pond that is outside of COA ROW to reduce leasing costs being incurred by the City. Tightly bound to the adjacent development's schedule, WSP's design will relocate the pond into City ROW, while considering the future build-out of St. Joseph's Drive to its ultimate typical section, as well as the temporary nature of the pond and its capacity. This project demonstrates our ability to understand the City's needs and expertise to provide engineering solutions that reduce cost without sacrificing the project goals.



2.4 Provide unique knowledge of key team members relevant to the project.



Andrew Sutliff, PE

Project Manager | Diverse background in construction and design enabling him to lead the production of quality and accurate construction plans and cost estimates – a critical component to successful project delivery



Meghan Myers, PE

Structural Engineering Lead | Familiar with executing on-call contracts with a wide variety of task orders through State Bridge On-Call contracts



Paul Steffin, PE, PTOE

Traffic Engineering Lead | Extensive experience with COA traffic analysis requirements and City traffic design standards and specifications as outlined in the DPM



Dan Sims

QA/QC Lead | Expertise in urban roadway design and PROWAG compliance, and is knowledgeable of Complete Streets requirements for the COA



Farshad Omidvaran, PE, CFM

Drainage Engineering Lead | Application of retention / detention facilities and underground storage chambers to manage and attenuate the volume of storm water reaching downstream drainage features

“I am personally invested in the success of Andrew Sutliff in the role of Project Manager for this contract. I will support him in the successful delivery of on-call tasks for the City. I have full confidence that Andrew will recognize and capitalize on our team members' unique strengths and capabilities, and will apply best practices and lessons learned for a continuous quality improvement approach.”

- Dan Sims



Jennifer Hyre

Environmental & Public Involvement Lead | Expertise in public outreach and involvement on projects requiring gaining stakeholder consensus on challenging issues such as intersection configurations and traffic access



Terry Ward, PE, PMP

Specifications & Constructibility Lead | Experience in development of Design, Specifications, and municipal engineering standards, as well as extensive construction experience providing a deep technical knowledge of construction contracts and materials



Brian Cribbin

Cultural Resources Lead | Experience navigating the Section 106 compliance and cultural resource management processes for local public agency projects funded by FHWA and NMDOT



Robert Ortiz, PE

Principal-in-Charge & Construction Management Lead | Experience in state and federal highway funding programs and requirements as well as state and federal highway specifications administration and development

Our team consists of entirely local, in-house team members each with the expertise to efficiently deliver assigned tasks.

Key Team Members and Task Leads will be supported by a team of junior staff that have COA On-Call experience for a cost effective approach.

III.

Respondent Experience

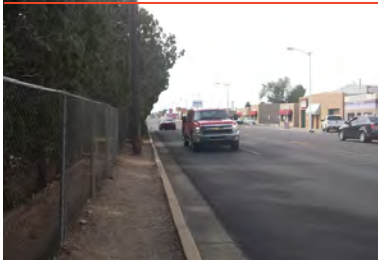
III. Respondent Experience

3.1 Describe previous projects of a similar nature, including client contact (with phone numbers), year services provided, construction cost (if applicable), and narrative description of how they relate to this project.

COMPREHENSIVE ON-CALL TASK LISTING

	Needs Assessment	Geometric Design	Signals & Lighting	Storm Drainage	ADA/PROWAG Design	Bicycle Improvements	Bid Documents	Construction Phase	Utility Coordination	ROW Services/Mapping	Environmental Clearance	Public Involvement	Interagency Coordination
CITYWIDE ON-CALL ENGINEERING SERVICES: TRANSPORTATION & STORM DRAINAGE (7525.00)													
Client Contact: Jennifer Kubica, CIP Program Manager, 505.768.3841 Services Provided: 2019 - Present Construction Cost: Varies by Task Team Members: Andrew Sutliff (Transportation Design/Task Manager); Dan Sims (Project Manager/Transportation Design); Paul Steffin (Transportation Analysis/Design); Carlos Romo (Drainage Design Support); Jennifer Hyre (Environmental Lead); Brian Cribbin (Environmental Support); Nicole Tsabetsaye (Roadway Design)													
North 4 th Street Sidewalk Design		✓		✓	✓				✓	✓	✓		✓
Stagecoach Traffic Calming Study	✓												
St. Joseph's Pond				✓					✓				
Complete Streets						✓							✓
Wells Park Lighting & Pedestrian Improvements	✓		✓						✓				
Southwest Mesa Street Lighting	✓		✓						✓				

Client: 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 our engineers and environmental staff collaborating closely in order to meet the applicable provisions of PROWAG, while developing creative Section 106-complaint mitigation to offset impacts to listed historic properties. This involved extensive coordination with City Council staff members and the New Mexico Historic Preservation Division to balance the preservation of the historic district with the current and future needs for safe pedestrian access along 4th Street.

KEY PROJECT INFORMATION

Project	Client Contact	Services Provided	Construction Cost	Team Members	Relevance
North 4 th Street Sidewalk Design	Savannah Torres, COA DMD 505.768.3861	May 2019 - Present	\$360,000 est.	<ul style="list-style-type: none"> Dan Sims, Project Manager Jennifer Hyre, Environmental Lead Brian Cribbin, Environmental Support Nicole Tsabetsaye, Roadway Design Support 	<ul style="list-style-type: none"> Recent experience working with DMD through the City's design process Capital Outlay funding in a state-listed historic district

COMPREHENSIVE ON-CALL TASK LISTING

Needs Assessment	Geometric Design	Signals & Lighting	Storm Drainage	ADA/PROWAG Design	Bicycle Improvements	Bid Documents	Construction Phase	Utility Coordination	ROW Services/Mapping	Standards Development	Public Involvement	Interagency Coordination
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CITYWIDE ON-CALL ENGINEERING SERVICES: TRANSPORTATION & STORM DRAINAGE (7703.10)

Client Contact: Eric Michalski, DMD Engineering Division, 505.768.3503 & Jennifer Kubica, CIP Program Manager, 505.768.3841 | **Services Provided:** 2017 - Present | **Construction Cost:** Varies by Task | **Team Members:** Andrew Sutliff (Transportation Design/Task Manager); Dan Sims (Project Manager/Transportation Design); Paul Steffin (Transportation Analysis/Design); Carlos Romo (Drainage Design Support); Virginia O'Connor (Traffic Design); Summer Apodaca (Traffic Design); Meghan Myers (Structural Design); Terry Ward (Constructibility); Nicole Tsabetsaye (Roadway Design)

Benavidez / 98 th Intersection Assessment	✓	✓										
Comanche / Vassar Intersection Improvements		✓	✓		✓		✓	✓	✓			
Walter Street Drainage				✓				✓				
COA CADD Training										✓		
Loma Hermosa/Glenrio Flood Plain Removal Design Analysis Report				✓								
Silver Avenue/ Dartmouth Drive ADA Ramp Improvements		✓			✓				✓			
Wyoming Boulevard & Carmel Avenue Traffic Operations Analysis	✓											
McMahon Boulevard & Fineland Traffic Signal Improvements	✓		✓					✓	✓			
Broadway Boulevard & Odelia Road Intersection Assessment	✓										✓	
Lomas Boulevard & 14 th Street Sidewalk Conceptual Design		✓			✓				✓			
North 4 th Street Sidewalk Conceptual Design		✓			✓							
Daytona Construction Management						✓	✓					✓

Client: City of Albuquerque



Comanche Road & Vassar Drive Intersection Improvements

WSP is currently completing construction plans for this project which includes a new signal, lighting, ADA compliant wider sidewalks and curb ramps, crosswalks, a re-aligned private driveway, signing and striping, and ITS interconnect. **This project demonstrates the important multi-disciplinary aspects of tasks that require an all-encompassing design team.** WSP has worked with the DMD Project Manager to coordinate utility relocations and TCP acquisitions with Real Properties, and to keep the private property stakeholders informed. WSP will also provide bid and construction phase, post-design services. This project was selected to mentor a group of UNM students for their Capstone (senior design).

KEY PROJECT INFORMATION

Project	Client Contact	Services Provided	Construction Cost	Team Members	Relevance
Comanche Road & Vassar Drive Intersection Improvements	Eric Michalski, COA DMD 505.768.3503	2018 - Present	\$448,000 est.	<ul style="list-style-type: none"> Andrew Sutliff, Project Manager Nicole Tsabetsaye, Roadway Design Paul Steffin, Traffic Design Virginia O'Connor, Signal Design Summer Apodaca, Lighting Design Meghan Myers, Structural Review Coordination Dan Sims, QA/QC Terry Ward, Constructibility 	<ul style="list-style-type: none"> Expertise in multi-discipline urban intersection design and plan development ADA / PROWAG design ROW and SUE coordination

Client: City of Albuquerque



12th Street & Menaul Great Streets Improvements

This project includes approximately 1.2 miles of urban arterial transportation analysis and design for 12th Street, Menaul Boulevard, and the I-40 Frontage Road. WSP has completed construction plans for Phases II and III. The urban corridor improvements include street sections that achieve complete streets ideals and a multi-lane roundabout. Since the project is located on tribal land, extensive coordination was required by WSP with the Indian Pueblo Marketing, Inc., Albuquerque City Council, as well as the Near North Valley Neighborhood Association, COA DMD, Planning Department, and ABQ Ride, which resulted in positive social, economic, safety, and welfare impacts for the community.

Client: City of Albuquerque



Ladera Drive NW Improvements Phase I & II

WSP completed the design of roadway improvements to provide on-street bike lanes for this 3.5-mile urban arterial roadway. Principal design elements of the four-lane divided roadway included widening to accommodate the bike lane; in addition to intersection, signal, drainage, multi-use trail, sidewalk, and ADA improvements. Elements of this project include traffic operations, drainage analysis reports, and multi-modal complete street ideals to identify the appropriate improvements.

KEY PROJECT INFORMATION

Project	Client Contact	Services Provided	Construction Cost	Team Members	Relevance
12th Street & Menaul Great Streets Improvements	Savannah Torres, COA DMD 505.768.3861	2013 - Present	<ul style="list-style-type: none"> Phase II, \$3.3M Phase III \$4,658,898 	<ul style="list-style-type: none"> Dan Sims, Deputy Project Manager, Lead Designer, Stakeholder Involvement Paul Steffin, Traffic Design Carlos Romo, Drainage Design 	<ul style="list-style-type: none"> Ability to build stakeholder consensus through extensive public involvement Expertise completing alternatives analyses including a roundabout Expertise in urban arterial design plan development Complete streets ideals
Ladera Drive NW Improvements Phase I & II	Savannah Torres, COA DMD 505.768.3861	2014 - Present	<ul style="list-style-type: none"> Phase I, \$2,487,217, Phase II, \$2,839,055 	<ul style="list-style-type: none"> Andrew Sutliff, Construction Support Dan Sims, Transportation Design Paul Steffin, Project Manager Farshad Omidvaran, Drainage Analysis 	<ul style="list-style-type: none"> City arterial roadway and intersection design City project development procedures experience Bicycle lanes ADA / PROWAG design Signal design

3.2 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.

WSP has continued to develop Project Managers that understand the COA's processes and standards, and the importance of responsive communication. Andrew Sutliff, Project Manager, has worked on multiple on-call tasks for the City. Most recently, he delivered final plans for the Comanche/Vassar Intersection Improvements, a task he managed and designed.

ANDREW SUTLIFF, PROJECT MANAGER

City of Albuquerque Experience in the Past 5 Years	Project Role
Citywide On-Call Engineering Services: Transportation & Storm Drainage (6098.00)	Deputy Project Manager
Citywide On-Call Engineering Services: Transportation & Storm Drainage (7525.00) <ul style="list-style-type: none"> St. Joseph's Drive Pond Construction and Drainage Improvements 	Roadway Designer <ul style="list-style-type: none"> Task Manager & Lead Designer
Citywide On-Call Engineering Services: Transportation & Storm Drainage (7703.10) <ul style="list-style-type: none"> Comanche Road and Vassar Drive Intersection Improvements 	Roadway Designer <ul style="list-style-type: none"> Task Manager & Lead Designer
Ladera Drive NW Improvements Phase II	Construction Support

IV.

Technical Approach

IV. Technical Approach

4.1 Describe respondent's understanding of the project scope.

We understand the scope of this on-call contract is to provide timely responses for a wide range of project types, sizes, and locations throughout Albuquerque. WSP is a multi-disciplinary firm with the capacity and expertise to successfully deliver all task assignments under this contract.

Transportation Design

Our expertise in transportation design spans the full spectrum of project development. **WSP has successfully provided quality, innovative engineering solutions on multiple COA On-Call contracts since 2007.** This work has encompassed every type of transportation design, involving arterial, collector, and local street designs; intersection improvement designs; traffic signal and lighting design; signing and striping design; on-street 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. We have extensive experience developing plans and specifications, and guiding our design throughout the COA's processes.

Traffic Analysis & Design

Our team is skilled in all aspects of traffic analysis including highway capacity, signalized and unsignalized intersections, roundabouts, limited-access facilities, crash studies, and traffic signal warrants. 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. Our analyses will include documentation of our methodology and results.

Drainage Analysis & Design

WSP has extensive experience in storm water planning, engineering, and management for the COA. Our drainage staff has the resources required to address all important 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:

- Use 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

WSP is knowledgeable of the requirements of the City's DPM and water quality design elements that may be incorporated into the City's and AMAFCA's drainage systems.



WSP designed a water quality structure for treating on-site storm water specifically to fit the unique needs of the Daytona Transit Facility project for the City.

Environmental Documentation & Certifications

WSP is adept at navigating through the entire project lifecycle, from initial environmental planning through the multi-disciplinary resource surveys and permitting needed for regulatory and agency requirements to receive final environmental approval.

Our environmental team, led by **Jennifer Hyre**, has expertise in achieving environmental clearance within the project development process for local government transportation projects. Jennifer's proven track record with both federal highway and state funding sources is nearly unrivaled. Additionally, **Brian Cribbin** has a thorough understanding of local government transportation projects, having shepherded hundreds through the environmental process with municipalities across New Mexico during his previous employment as the NMDOT environmental reviewer for these funding sources.

WSP has strong positive working relationships with the key resource agencies that affect COA transportation projects. This is rooted in our proficiencies with 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.

WSP is permitted and qualified to complete cultural resources investigations that meet state requirements as well the 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.

Complete Streets

WSP has extensive experience implementing the COA Complete Streets Ordinance into our projects. Along with the Ordinance, WSP uses PROWAG, AASHTO, and National Association of City Transportation Officials (NACTO) design guidelines for pedestrian and bicycle facility design. These serve as guidelines for alternatives analysis where flexibility is needed to develop a design that is context sensitive, while overcoming any engineering, environmental, or constructibility constraints. Our team is experienced in the design of ADA facilities for pedestrians and is comprised of several avid cyclists who understand not only bicycle facility guidelines, but the challenges that cyclists encounter throughout the city.

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.

While federal and state government-mandated COVID-19 emergency precautions are being implemented, such as social distancing and 'stay-at-home' orders, traditional methods for informing the public in-person are not feasible. Compounding the challenges for reaching the public is the fact that accessibility to and familiarity with technologies such as high-speed broadband are unevenly distributed across Albuquerque.

Considering these circumstances, WSP is hosting virtual town hall meetings for NMDOT projects, which combine active phone (landline and mobile) participation in tandem with live audio-video internet streaming. The meeting style mimics a radio show and is similar to facilitated in-person meetings with a moderator, combined verbal/Power Point presentation, and 'Question and Answer' interaction between the development team and participating public.

Since the effects of COVID-19 are difficult to predict over the near-term future, WSP retains the capacity and capability for a shift back to traditional, in-person meetings. WSP stands ready to implement blended public involvement processes as necessary for the City, while continuing to provide meaningful information to the public.

Structural Analysis & Design

WSP is experienced in providing retaining wall, bridge and related structural design support. 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 Process. The construction management group in our Albuquerque office has the depth of staff that allows us to quickly fill all levels of inspectors, technicians, project managers, office managers, and other skill needs on very short notice.

Our experience, qualifications, and knowledge of the COA and NMDOT specifications and federal requirements enables us to provide construction review and inspection services on local, state, and federal aid funded projects.

We are qualified to assist the City with pre-construction activities such as bid reviews, pre-construction meetings, and/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** as a subconsultant to provide a full spectrum of surveying needs including platting actions, design data, site plans, plot plans, boundary surveys, as-built surveys, topographic mapping, ROW mapping, and legal descriptions. Cartesian has five field crews that are experienced with the efficient collection of accurate measurements. Cartesian has two licensed surveyors with two more drafter/managers with significant formal education in both surveying and civil engineering.

Subsurface Utility Engineering (SUE)

We have included **Maser** as a subconsultant to provide SUE services. Maser 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, Maser also has the unique expertise to provide state-of-the-art LiDAR surveys. On tasks in which Maser is selected to perform the survey, Maser can also provide ROW mapping services as needed.

4.2 Describe how respondent plans to perform the services required by the project scope.

WSP understands that there are several key factors to meeting your 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
- **Weekly updates** to DMD staff on all COA On-Call tasks

Initial Activities

- Meet early and often with the City Project Manager to discuss the task and expectations
- Visit the project site and gather pertinent information and data to understand objectives and needs
- Identify the appropriate staff and resources to successfully complete the task
- Prepare a scope of work, schedule, and cost proposal for review as quickly as possible - no longer than 10 days

Project Execution

Following a notice-to-proceed (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 who will be supported by different Task Leads overseeing each technical discipline. The Task Manager will be responsible for the performance of the task identified. **The Task Manager will lead day-to-day operations of the task, control cost, and ensure close coordination with the COA.**

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 for each task. **WSP works almost exclusively with public agencies, which eliminates potential conflicts of interest when developers are affected by a project.**

Schedule Control - Developing a realistic schedule is paramount to project success. Efficient use of resources is particularly important for task order projects that tend to have shorter lifecycles. Accordingly, 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. WSP will routinely monitor schedule and performance and will take corrective actions where needed.

Cost Control – 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 compliance. This is further described in Section 5.1 of this proposal.

Quality Control – The COA's satisfaction is WSP's highest priority. We follow a comprehensive quality control process that covers all aspects of our project delivery operations and the requirements of ISO 9001:2015. This rigorous international Quality Management System standard proves our ability to consistently offer a product that meets client requirements, as well as applicable statutory and regulatory requirements, based upon external audit.



WSP's Quality Management System is ISO 9001:2015 certified by third party global assurance for engineering services.

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 project managers develop a Project Management Plan (PMP) which identifies procedures the project manager will take to accomplish specific tasks. This will ensure proper communication of deliverable requirements, client expectations, contractual obligations, workflow, and quality control processes.

The PMP requires checking and back-checking all deliverables to ensure 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.

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

4.3 Describe specialized problem solving required in any phase of the project.

WSP considers ourselves a partner with the COA and is highly interested in improving on our processes and strategies that lead to improved results. We offer specialized problem solving for each phase of project development including:

Scoping Phase

WSP will discuss the COA's needs to clearly define task objectives and the appropriate level of effort based on available budget. For more involved tasks, we can meet at the project site to discuss potential issues and opportunities. WSP's Task Managers have the experience to assist the COA in defining a cost-effective scope and approach to each task.

Study Phase

On-call studies often address issues from the City Council, Office of the Mayor, or result from public input. WSP can assist the COA with challenging projects that have contentious issues, are politically sensitive, have complicated environmental or historic settings, or require public consensus. Our experience and technical expertise will help us provide the COA with a defensible solution based on engineering data and analyses within the unique project context.

Design Phase

When a unique design challenge arises, WSP will invite the COA Project/Task Managers and staff to participate in interactive design sessions to discuss and vet potential solutions identified by WSP. This collaboration has proven to be an effective way to identify and resolve issues quickly as well as keeping fast-track projects on schedule.

Bid Phase

The key to this phase is working in close communication with the DMD Contract Services Division and following direction provided. WSP will incorporate lessons learned from previous projects into the Bid Package as part of our commitment for continual improvement.

Construction Phase

WSP is responsive to RFIs and submittals which keeps work flow moving forward and improves contractor efficiency to help stay on schedule. WSP can also provide construction inspectors to augment the COA's Construction Services staff. Our in-depth experience with DMD projects, particularly on-call contracts, will ensure that any specialized challenges or concerns that may arise over the course of the project will be handled professionally and efficiently.

V.

Cost Control

V. Cost Control

5.1 Describe cost control and cost estimating techniques to be used for the project.

Cost Control of the Design Process

Our approach to cost control during the design process will include the following elements:

- Meeting with the City Project Manager at the onset of each task to confirm the scope of work that is consistent with the COA's expectations.
- Developing a scope of work, fee proposal, and design schedule for each task. (These will be approved by our Principal-in-Charge to ensure all deliverables and costs are suitable to meet task requirements.)
- Strategically structuring our team with experienced senior and mid-level staff, supported by junior staff to meet the COA's project design budget, while providing the level of expertise required to deliver a quality project.
- Implementing our proven and efficient project delivery system. (We understand the COA's expectations and have worked closely with city staff to develop cost effective standards for deliverables.)
- Proactively working with the City Project Manager to mitigate challenges that may affect project cost as the project develops.
- Actively utilizing our proposed specialty subconsultants to meet project needs.

Cost Control of the Construction Cost

Our goal is to ensure the engineer's estimate of probable cost captures the full project scope and considers the COA's budget constraints.

We understand the complexities of working with on-call contractors and how these projects are priced. WSP will develop a sound, detailed design that is refined through constructibility review. We will prepare thorough and complete construction documents that are clear in design intent, providing control of the work, minimizing risks to the contractor, and protecting the COA's interests.

WSP will prepare an engineer's estimate at each design plan submittal: 30%, 60%, 90%, and Final. In addition, we will monitor construction market trends to ensure fluctuations in material costs are incorporated in the engineer's estimate. If estimated construction costs exceed the budgeted amount and cannot be addressed through design or process changes, the City Project Manager will be notified and we will assist in developing strategies to reconcile any differences between estimates.

Cost Estimating Techniques

WSP understands the effects of the fluid economic conditions of COVID-19 and will use several sources to ensure current trends are incorporated into our construction cost estimates. The COA's most recent estimated unit prices for contract items, recent COA construction bid tabs, and current NMDOT average unit bid prices are used. Actual bids for recently let City, County, and NMDOT projects in the Albuquerque area will be reviewed. This provides a broad basis for estimating unit prices and overall construction costs. **We recognize these construction costs fluctuate constantly and proactively incorporate the latest cost information available.**

5.2 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 justification for any discrepancies that may exist with this information.

WSP's design and construction package quality allowed for consistent bidding across all of our projects, eliminating the need for additional funding requests from the owner.

BID COMPARISON				
Name of Project	Month and Year Bid	No. of Bids	Final Cost Estimate	Bid Award Amount
12 th Street & Menaul Great Streets Improvements - Phase III	Apr 2020	2	\$4,749,240	\$4,658,898
NM 6 Bridge Replacement	Aug 2019	3	\$20,467,664	\$18,490,159
Ladera Drive NW Improvements - Phase II	Jun 2019	4	\$3,327,222	\$2,839,055
Regional Transportation Management Center (613593)	Jan 2019	2	\$13,436,410	\$12,140,325

VI.

Certifications

VI. Certifications

City of Albuquerque Capital Implementation Program

Agreement and Insurance Certification

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

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

Project Name Citywide On-Call Engineering Services (Transportation and Storm Drainage)

Project Number 7843, 7844, 7845

Date May 20, 2020 Firm Name WSP USA Inc.

Signature *Robert D Ortiz*

Title Principal-in-Charge

STATE OF NEW MEXICO)

) ss

COUNTY OF BERNALILLO)

The above Certification was subscribed before me, the undersigned authority, by:

Robert Ortiz, PE

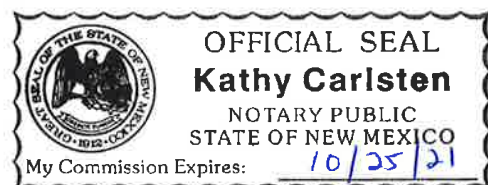
who swore upon oath that this Certification was signed of free act and deed, on this

20 day of May, 20 20

(Notary Public)

My commission expires:

10/25/21



Pay Equity Reporting Form PE10-249

Company name:
 Mailing address line 1:
 Mailing address line 2:
 City, state, zip code:
 Phone:
 E-mail address:
 FEIN number:
 EAN number:
 SHARE vendor number:
 Reporting calendar year:

WSP USA Inc.
6100 Uptown Blvd., Suite 700
Albuquerque, New Mexico 87110
11-1531569
7356
2020

Job Category	No. Females	No. Males	Gap (Absolute %)
1 - Officers and Managers	3	11	11.91%
2 - Professionals	9	14	1.13%
3 - Technicians	2	13	5.16%
4 - Sales Workers	0	0	N/A
5 - Office and Admin. Support	2	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
<hr/>			
Total # Job Categories With No Employees	5		
Total # Female Only Job Categories	1		
Total # Male Only Job Categories	0		
Total # Females (all categories)	16		
Total # Full Time Females	13		
Total # Part Time Females	3		
Total # Males (all categories)	38		
Total # Full Time Males	26		
Total # Part Time Males	12		
Total # Employees	54		
Female % Workforce	29.62963%		
Male % Workforce	70.37037%		

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

ITB #: RFP#7843, 7844, 7845

Robert Ortiz, PE

Name and title, printed

PO# Robert Ortiz
 Signature

May 20, 2020

Date



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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 9,500 employees in 150 offices across the U.S., we partner with our clients to help communities prosper.