EC-21-430

CITY OF ALBUQUERQUE

Albuquerque, New Mexico

Office of the Mayor

Mayor Timothy M. Keller

INTER-OFFICE MEMORANDUM **DATE: August 6, 2021**

TO: Cynthia Borrego, President, City Council

FROM: Timothy M. Keller, Mayor

SUBJECT: Mayor's Recommendation of On-Call Engineering for the Albuquerque International Sunport and the Double Eagle II Airport

The Selection Advisory Committee corresponded via email on August 4, 2021 to consider the following project.

Project: Project No: 7540.00; On-Call Engineering for the Albuquerque International Sunport and the Double Eagle II Airport

Agency: Department of Municipal Development

Project Description: To provide engineering design and construction services to the Aviation Department for various on-call projects at either the Albuquerque International Sunport or Double Eagle II Airport.

The Committee made the following recommendation:

AECOM, Molzen Corbin, and WHPacific, Inc.

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:

AECOM, Molzen Corbin, and WHPacific, Inc.

Mayor's Recommendation of AECOM, Molzen Corbin, and WHPacific, Inc. for Project No: 7540.00; On-Call Engineering for the Albuquerque International Sunport and the Double Eagle II Airport. This recommendation is being forwarded for Council consideration and action.

Approved:

8/23/21

Sarita Nair Date
Chief Administrative Officer

Approved as to Legal Form:

DocuSigned by:
Esteban A. Aguilar, Jr. 8/9/2021 | 8:37 PM MDT
7961D99D046F4DB...

Esteban A. Aguilar, Jr. Date
City Attorney

Recommended:

DS

DocuSigned by:
8/9/2021 | 7:31 PM PDT
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Patrick Montoya, Director Date
Department of Municipal Development

MIM
Attachments:

Cover Analysis
Composite SAC Evaluation Form
Minutes of the SAC Meeting

Cover Analysis

1. What is it?

This is an On-Call solicitation for the Aviation Department to select an Engineer who will provide design services for various projects at either the Albuquerque International Sunport or Double Eagle II Airport.

2. What will this project do?

This project will allow the Aviation Department to design and construct various projects at either the Albuquerque International Sunport or Double Eagle II Airport.

3. Why is this project needed?

This project is needed for frequent design services on various small projects at both airports and this will allow expeditious implementation of these projects.

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

The cost is to be negotiated on a task by task basis and funding will be from Aviation Department Fund 613, Activity Number 1175230.

5. What will happen if the project is not approved?

Should this project not be approved, the Aviation Department will not be able to provide timely implementation of smaller projects.

Composite Selection Advisory Committee Evaluation Form

Project No: 7540.00; On-Call Engineering for the Albuquerque International Sunport and the Double Eagle II Airport

DATE: 8/4/21

Evaluation Criteria	Maximum Points	Firm Name: WHPacific, Inc.	Firm Name: Molzen Corbin	Firm Name: AECOM
I. General Information 1. Provide Name and Address of Respondent and, if firm, when firm was established. 2. Provide number of employees, technical discipline and registration. 3. Indicate where the services are to be performed.	25	23	25	21
II. Project Team Members 1. Provide organization plan for management of the project. 2. Identify all consultants to be used on the project. 3. Provide qualifications of project team members shown in organization plan, including registration and membership in professional organizations. 4. Provide any unique knowledge of key team members relevant to the project.	100	87	93	84
III. Respondent Experience 1. 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. 2. Provide examples of the Project Manager's City experience within the past five (5) years that serve to demonstrate the the Project Manager's knowledge of City procedures.	150	135	139	126
IV. Technical Approach 1. Describe respondent's understanding of the project scope. 2. Describe how respondent plans to perform the services required by the project scope. 3. Describe specialized problem solving required in any phase of the project.	100	81	91	84
V. Cost Control 1. Describe cost control and cost estimating techniques to be used for this project. 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.	75	64	65	61
VI. Quality and Content of Proposal 1. Evaluator's rating of overall quality of proposal.	50	45	45	44
Total Possible Points	500	500	500	500
Total Points (Before Point Deductions)		435	458	420
Minus High and Low Scores Total		173	180	163
Total Points (Minus High and Low Scores)		262	278	257
Minus Point Deductions (If Applicable)		3	29	10
Sub-Total (All Applicable Deductions Applied)		259	249	247
Plus Tie Breaker Points (If Applicable)		0	0	0
SAC TOTAL SCORES		**259**	**249**	**247**
Plus Interview Scores		0	0	
FINAL SCORES		**259**	**249**	**247**

Minutes of the Meeting
of the
Selection Advisory Committee
August 4, 2021

via Email

Engineering Consultants for
On-Call Engineering for the Albuquerque International Sunport and the Double Eagle II Airport

Project No. 7540.00

Present:

Rhonda Methvin, PM, PE Aviation Department
Daiquiri D. Zozaya, PE, Department of Municipal Development
Bryan Wolfe, PE, Department of Municipal Development
Richard McCurley, Aviation Department
Hartwell Briggs, Aviation Department

Staff:

Myrna Marquez, Administrator, Selection Advisory Committee

Seven proposals were received in response to the Request for Proposals but only six proposals were considered; one proposal was deemed non-responsive because the firm did not provide a fully completed and executed Pay Equity Worksheet PE10-249 for the current calendar year as required per the legal ad.

Project Description:

To provide engineering design and construction services to the Aviation Department for various on-call projects at either the Albuquerque International Sunport or Double Eagle II Airport.

Estimated Compensation $ 600,000.00

The Administrator contacted the SAC Committee and RFP respondents on July 22, 2021 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 11:30am on July 28, 2021. The meeting, however, was postponed for one week because one of the SAC Committee members emailed the SAC Administrator the morning of July 28, 2021 asking if more time would be possible to deliver the scores or if the meeting could be held with only four members' scores. The Administrator rescheduled the meeting for August 4, 2021 and broadcast that information to all SAC Committee members and RFP respondents.

Committee members stated that the proposals were very good overall. It was noted that some of the proposals left out the license registration numbers and it is nice to see a table which

breaks down of the number of employees within each discipline. A recommendation was made for firms that have team members located outside of NM and that was that they should include an explanation of how services will be provided by those team members located out of NM. Committee members commented that firms should include experience with FAA and other stakeholders. Proposals were generally well written, but the Technical Approach and Cost Control sections of some were generic and were better fit for proposals of large projects. Also to note, Respondent Experience of some proposals included too many large projects out of scale of an On-Call.

The Administrator collected the Committee members' scores and she deleted the high scores and low scores and then totaled the proposal scores. There was not a tie but because this project was not procured Federally and the top two scores were within five percent of each other, point deductions were applied. The Committee and respondents were advised of the final scores and the Administrator asked the Committee if there was a motion for interviews. Committee members did not make a motion for interviews. The SAC Administrator said she would verify the scores before making the Committee's recommendation to the Mayor.

Final scores reported via the email meeting were as follows:

AECOM	247
Bridgers & Paxton	245
Molzen Corbin	249
Parkhill	237
RS&H, Inc.	240
WHPacific, Inc.	259

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

AECOM	247
Molzen Corbin	249
WHPacific, Inc.	259

There being no further business before the Committee, the Administrator adjourned the email meeting by emailing everyone the final scores on August 4, 2021 at 1:10pm.

Myrna Márquez

Myrna Marquez, Administrator
Selection Advisory Committee

cc: City Clerk

On-Call Engineering for the Albuquerque International Sunport and the Double Eagle II Airport

Project No: 7540.00

Prepared for
City of Albuquerque

July 14, 2021

Delivering a better world

AECOM
One Park Square
6501 Americas Parkway, Suite 900
Albuquerque, NM 87710

505 855 7500 tel
505 855 7555 fax
www.aecom.com

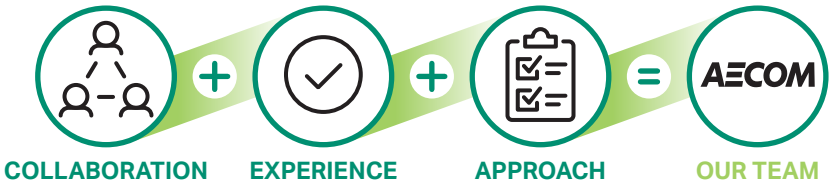
July 14, 2021

Myrna Marquez, Administrator
Selection Advisory Committee
Department of Municipal Development
One Civic Plaza, 7th Floor, Room 7057
Albuquerque/Bernalillo County Government Center
Albuquerque, NM 87102

Reference: On-Call Engineering for the Albuquerque International Sunport and the Double Eagle II Airport, Project No: 7540.00

Dear Ms. Marquez and Selection Committee Members:

We understand that both the Albuquerque International Sunport (ABQ) and the Double Eagle II Airport (AEG) are growing rapidly through development of accessible land and available sites. Expansion of real estate development in and around airports strains existing airport facilities and infrastructure, with more vehicles traveling on the roads around the airport, more users accessing utilities, and more passengers using the facilities.



Having a bench of aviation consultants to provide on-call engineering and construction support is a wise solution for addressing the as-yet unknown challenges your infrastructure faces as development continues to blossom. AECOM is prepared to be one of your qualified aviation consultants, providing on-call engineering services at ABQ and AEG. Our team brings the following key attributes to this contract:

- ✓ As the nation's leading airport consultant, AECOM offers a wide range of services — from airport planning to civil engineering to program/construction management services. Our portfolio of successful projects is a testament to our ability to deliver any type of aviation project that may arise.
- ✓ A key strength of our local team is our depth of experience of providing engineering services for roadway projects, airfield engineering, and building engineering in Albuquerque and surrounding areas. For this opportunity, we have augmented our local staff with national aviation talent so we will be prepared to provide any service needed.
- ✓ We have a long history in delivering success to the City of Albuquerque through a variety of projects. Most importantly, our history at both ABQ and AEG is extensive. AECOM and its legacy companies have been providing engineering services continuously to the COA Aviation Department starting with the 1986 Master Plan Improvement Program all the way through the current concourse loading bridge foundation repairs.

Our core team lives and works in Albuquerque, and we take pride when we can collaborate with airport staff to deliver projects that upgrade the infrastructure necessary to sustain economic development and growth for both ABQ and AEG. With our access to additional aviation professionals from across the country, the AECOM team will be able to offer fresh perspectives and stay on top of new market trends. We look forward to our continued partnership as a go-to engineering firm for the years to come and thank you for your consideration of AECOM as your engineering partner.

Sincerely,

Ross Lujan, PE
ross.lujan@aecom.com
505.855.7492

Todd Gnospelius
todd.gnospelius@aecom.com
210.693.2298

Table of Contents

I. General Information

Firm Information

AECOM
One Park Square
6501 Americas Parkway, NE, Suite 900
Albuquerque, NM 87110
✆ 505.855.7500

Facts and figures

1.

AECOM launched when a handful of employees from design and engineering companies shared a dream of creating an industry-leading firm dedicated to building a better world.

2.

AECOM became an independent company formed by the merger of five entities. While our official founding was in 1990, many of our predecessor firms had distinguished histories dating back more than 120 years.

3.

Since then, more than 50 companies have joined AECOM and, in 2007, we became a publicly traded company on the New York Stock Exchange.

4.

AECOM is the world's premier infrastructure firm, with an unrivaled heritage delivering design, planning, engineering, consulting, and construction management solutions.

AECOM Technical Services, Inc. (AECOM) is pleased to have the opportunity to present our qualifications for On-Call Engineering Services at both ABQ and AEG. Our team's proven capabilities in managing City of Albuquerque (COA) on-call engineering contracts, combined with our relevant aviation experience, make our team more than capable to execute simultaneous tasks through this contract.

AECOM was established in 1990 and has since grown into a fully integrated professional and technical services firm positioned to design, build, and operate infrastructure assets around the world for public- and private-sector clients. We are a leader in all the key markets we serve — including aviation, transportation, facilities, environmental, energy, oil/gas, water, buildings and government — and provide a blend of global reach, local knowledge, innovation, and technical excellence in delivering customized and creative solutions that meet the needs of our clients.

AECOM's global staff count is nearly 50,000 employees strong. Our Albuquerque office provides aviation services, transportation and traffic engineering, structural design, drainage, environmental, utility coordination, and public involvement services in support of state and local municipality projects. Our team will provide design services for every assigned task from our Albuquerque office, led by a team of professionals who have worked together for many years in New Mexico and on COA projects. Our local office staff consists of more than 50 technical professionals, with varying backgrounds and expertise.

Additionally, on an as needed basis, we can provide aviation experts with specialized expertise and unique perspectives to support the local team. Work performed outside of our local Albuquerque office, will likely happen in our major aviation design centers within the region. These possible offices include: Dallas, TX, Houston, TX, Phoenix, AZ, and Denver, CO. **Our depth of personnel allows our team to tackle multiple task orders simultaneously, while maintaining our high quality that clients expect.**

Our team is comprised of AECOM, Colliers Engineering and Design (survey/SUE) and Terracon (geotechnical engineering). The combined resources of our team will provide the technical knowledge and expertise necessary to provide the design services required under this contract effectively and efficiently. We emphasize our commitment of key personnel identified in this submittal to meet the City's quality and schedule expectations.

Key Staff

As principal-in-charge, Todd Gnospelius will commit the necessary resources to support all tasks required under this contract. As project manager, Chris Rosol will serve as AECOM's single point of contact, organizing and supervising project staff, creating and managing the project schedules, ensuring that all quality management processes are implemented, and assuming primary responsibility for the quality and timeliness of our services. AECOM Key Staff for this contract are summarized below:

Key Personnel	Role	Registration No.
Chris Rosol, PE	Project Manager	NM PE#17404
Rick Tietgens, PE	Design Manager	NM PE#13127
Perry Havenar, CM	Aviation Planning	N/A
Robert Hawthorne, PE	Structural Engineering	NM PE# 8178
Scott Medina, PE	Drainage/Utilities Lead	NM PE#16454
Ross Lujan, PE	Contracting Officer	NM PE#16326

II. Project Team Members

The AECOM team is led by local engineers who are familiar to the City and Department of Aviation staff. Additionally, this team will have assistance from specific aviation experts from across the country who can support and lead projects as needed. Project Manager Chris Rosol, PE, will lead our team, with full access to the array of services that AECOM can offer through on-call contract vehicles.

Project Organization

🔧 Key Personnel

PRINCIPAL-IN-CHARGE
Todd Gnospelius

CONTRACTING OFFICER
🔧 Ross Lujan, PE

PROJECT MANAGER
🔧 Chris Rosol, PE

QA / QC
Jeff Warkoski, PE

PLANNING
🔧 Perry Havenar, CM

Technology
Kyle Williams

DESIGN MANAGER
🔧 Rick Tietgens, PE

Civil
Armando Ramirez, PE

Drainage + Utilities
🔧 Scott Medina, PE

Survey
Colliers

Geotechnical
Terracon

Structural
🔧 Robert Hawthorne, PE

Traffic
Suresh Parvatoja, PE

Pavement
Jonathan Gould, PE

CONSTRUCTION SERVICES
Rick Tietgens, PE

Materials Testing
Terracon

AECOM will supplement our team with the experience and specialized expertise of the following local subconsultants:

Colliers

Survey/SUE

Colliers Engineering and Design (formerly known as Maser Consulting) is a trusted provider of multi-discipline engineering, design, and consulting services to public- and private-sector clients. Headquartered in Red Bank, New Jersey, the firm has maintained an office in Albuquerque since 2013 that focuses on mobile LiDAR acquisition/mapping, conventional survey services, right-of-way mapping, SUE, and non-destructive testing. Colliers's ability to measure geospatially from the air, ground, and subsurface to provide precision data interpretation is what sets them apart as an industry leader.

Terracon

Geotechnical Engineering

Terracon is a multidisciplinary engineering firm specializing in geotechnical, environmental, facilities, and materials testing services. The firm has performed geotechnical studies within and directly adjacent to the Sunport, including geotechnical engineering services for the Orion Center project, the Air Cargo facility, Sunport Boulevard Extension, Airport Parking Canopy Expansion and PNM's Sagebrush Substation project.

Key Team Members

The following resumes show the qualifications and roles of our key team members, along with the reasons why each was selected.

Chris Rosol, PE

On-Call Project Manager
NM PE #17404 | BSCE

Chris will serve as the project manager and the point of contact for the on-call engineering contract. He will be responsible for overseeing the delivery of each task and assuring your satisfaction. Through his leadership and experience working with the COA, he will apply proven processes to meet your standards and expectations.

Why Chris: Chris has worked continuously for the COA for more than 10 years on numerous engineering and planning projects. He is currently working on multiple COA projects through the Department of Municipal Development (DMD), such as the McMahon Widening Project. In addition, he understands the expectations of the City and its departments through his experience managing COA on-call contracts. He has designed multiple COA roadway projects, assembled bid documents, and supported construction and project closeout. As the project manager on AECOM's current contract, he understands what is required, and how to manage task budgets, schedules, and subcontractors to continually meet the expectations of the City and its staff.

Chris's relevant experience

- COA Project No. 6471.00, City-Wide On-Call Engineering Services, Transportation and Storm Drainage – Project Manager
- COA Project No. 7226.90, McMahon Widening Proposal – Project Manager
- COA Project No. 6483.91, 8th Street Streetscape – Project Manager and Roadway Task Lead
- COA Project No. 6816.04, McMahon Boulevard Extension – Deputy Project Manager
- COA Project No. 7532, Bridge and Trail Evaluation Study – Design Review

Rick Tietgens, PE

Design Manager
NM PE #13127 | BSCE

Rick will support Chris in managing design tasks and construction services for each assignment. He will be responsible for managing the design production and delivery of required elements and services associated with the on-call engineering contract.

Why Rick: Rick is a senior project manager in AECOM 's Albuquerque office with 30 years of experience in organizing and implementing complex, multidisciplinary airport facility projects. He has served as project manager for more than 20 landside and airside projects at both ABQ and AEG. Rick has extensive knowledge of the infrastructure and facilities managed by the Aviation Department. Additionally, he is familiar with the capabilities of our team and has previously worked with the majority of the team on projects across the region.

Rick's relevant experience

- ABQ Passenger Screening Expansion – Project Manager
- ABQ Jet-A Fuel Farm – Project Manager
- ABQ Spirit Drive Realignment – Project Manager
- ABQ Loading Dock and Commercial Parking Design – Project Manager
- ABQ Terminal Commercial Lane Reconstruction – Project Manager
- AEG Master Plan – Project Manager

Perry Havenar, CM

Aviation Planner
MS, Aviation | BS, Anthropology

Perry will support Chris and the rest of the team with aviation planning services. Thorough, well-thought-out planning is essential to any engineering project. Perry will lead this effort, with his extensive background in airport planning, which includes both landside and airside facilities.

Why Perry: Perry's planning efforts will support the Aviation Department in making sure that the direction we are headed is accurate and compliant with FAA, COA, and general aviation standards. His background includes planning work for airports of varying sizes and varying scopes of work. His knowledge of total airport operations will provide a benefit to the City and the project team as projects advance through the development process.

Perry's relevant experience

- DFW Landside Visioning Planning Task, Dallas/Fort Worth, TX – Subject Matter Expert
- DFW Wayfinding Signage Master Plan, Dallas/Fort Worth, TX – Deputy Project Manager
- John Wayne Airport (SNA) ALP Update, Santa Ana, CA – Project Manager
- GRK Airport Master Plan, Killeen, TX – Project Manager
- San Antonio Airport On-Call Engineering Design Services, San Antonio, TX – Subject Matter Expert

Key Team Members

Robert Hawthorne, PE

Structural Engineer
NM PE#8178 | BSCE

Robert will support Rick and Chris with structural engineering tasks. He is capable of managing individual structural tasks and/or supporting wider tasks involving structural engineering services throughout the on-call engineering contract.

Why Robert: Robert's 40 years of engineering experience has included a wide variety of project types, including multiple airport structural projects at ABQ and AEG. His knowledge of structural engineering standards, coupled with his experience at both airports, makes Robert the right person to lead any structural engineering need at either airport. Robert has completed more than 15 different aviation projects at ABQ and AEG during his career.

Robert's relevant experience

- AEG Airport Hangar Design, Albuquerque, NM – Structural Engineer
- ABQ Airport Hangar III Design, Albuquerque, NM – Structural Engineer
- ABQ and AEG On-Call Engineering Services (Matheson Air Cargo Slab Replacement), Albuquerque, NM – Structural Engineer
- PNM Sagebrush Substation, Albuquerque, NM – Structural Engineer
- ABQ Terminal Improvement Project, Albuquerque, NM – Structural Engineer

Scott Medina, PE

Drainage and Utilities Engineer
NM PE#16454 | BSCE

Scott's wide-ranging experience of leading and supporting engineering projects across the city makes him the ideal person to lead all drainage and utility engineering tasks for this on-call engineering contract. He will support drainage or utility needs for all tasks provided through this contract.

Why Scott: Over his long career, Scott has used his wide-ranging skills to support numerous drainage, utilities, and water projects across the region. He has extensive knowledge of AEG and ABQ and the utilities that surround the facilities at both airports. Additionally, he has previously worked with the majority of the team on projects across the region.

Scott's relevant experience

- PNM Sagebrush Substation, Albuquerque, NM – Civil Engineer
- COA Project No. 6471.00, City-Wide On-Call Engineering Services, Transportation and Storm Drainage – Drainage/Utilities Lead
- COA Project No. 7226.90, McMahon Widening Proposal – Drainage/ Utilities Lead
- Albuquerque Metropolitan Arroyo Flood Control (AMAFCA), North Camino Arroyo Improvements.
- COA – University Boulevard/Rio Bravo Extension

"We have found your firm's work to be thorough, skilled, and timely...We also want to acknowledge the excellent planning and design work that AECOM provided including the capacity analysis and constrained and unconstrained forecast, as well as the creative phasing of the project over multiple years in order to minimize impacts to current tenants and airport operations.

Steven Carrillo, PE, (former) Manager, Airport Engineering
John Wayne Airport

III. Respondent Experience

AECOM brings a strong portfolio of relevant engineering experience, serving in varying roles related to both airside and landside facilities at airports of varying sizes. An additional strength is our local experience with City of Albuquerque and transportation engineering projects. The map below summarizes our airport experience, and is followed by profiles of our relevant projects.

Our team brings our best practices and lessons learned from similar recent airport engineering contracts to ABQ

Post Covid-19 Return to Service (R2S) Airports are facing unprecedented challenges due to the Corona virus pandemic. Looking ahead, airports will have difficult choices to make regarding where, when, and how services will resume. AECOM is uniquely positioned to provide expertise and technologies to facilitate a rapid assessment of data sources to help the City of Albuquerque better understand the current situation and enable you to make confident decisions. Our involvement with airports across the United States, makes our team well positioned to gather innovative solutions and provide best practices to meet the City's needs.

Please find the following applicable and relevant projects as required per the SOQ:

City of Albuquerque On-Call Engineering and Drainage Contract

Reference: Eric Michalski or Moby Mirza, City of Albuquerque Department of Municipal Development, PO Box 1293, Albuquerque, NM 87103, 505.768.3661

Key Team Members: Chris Rosol

Cost: $300k (fee) **Completed:** 2021

AECOM has been awarded 10 tasks under this on-call contract for transportation and drainage improvements, led by our proposed project manager, Chris Rosol, PE. Some of the relevant assignments are as follows:

- **Blake Road Widening at 98th Street.** Designed approximately 600 feet of roadway widening along Blake Road east of the intersection with 98th Street. Developed construction plans and cost estimates through the 30-60-90-100% DMD/DRC review process. Performed traffic signal warrant and level of service (LOS) analysis at the intersections of 98th/Blake and 98th/Gibson.
- **Townsend Drainage Design Analysis Report.** Identified and quantified drainage shortcomings of the Sunset Gardens development near the intersection of Sunset Gardens Road SW and Townsend Avenue SW. Developed AHYMO model for hydrologic analysis and preliminary pipe sizing. Developed design analysis report (DAR) and 30% plans and estimate for construction.
- **Juan Tabo Boulevard Pavement Distress Investigation.** Performed geotechnical investigations for an area of roadway subsidence on Juan Tabo Boulevard between Silver Charm Road and Peteski Road. Developed repair recommendations based on laboratory analysis of soil samples.
- **Quaker Heights Fire Protection and Storm Drain Improvement.** Designed a fire protection waterline and fire hydrants within the Quaker Heights Subdivision, north of Western Trails Road between Coors Boulevard and Atrisco Drive. Coordinated closely with the Albuquerque Bernalillo County Water Utility Authority on design requirements and water line and hydrant placement. Designed drainage inlets and pipe to address local flooding identified by residents. Developed construction plans and cost estimate through the 30-60-90-100% DMD/DRC review process.
- **Carlisle Hannett Pedestrian Hybrid Beacon (HAWK) Signal.** Performed a warrant analysis for a HAWK signal in response to citizen concerns related to the busy intersection of Carlisle Boulevard and Hannett Avenue.
- **Indian School Road, "Road Diet" (two tasks).** Designed signing and striping improvements to existing four-lane segments of Indian School Road to better accommodate bicyclists and pedestrians from Menaul Extension west to Rio Grande Boulevard and Carlisle Boulevard to Broadway Boulevard. This project was developed in response to citizen concerns over multi-user safety and motor vehicle speeds on the existing section. The design is now complete, and the project is progressing to construction.

Benefit: AECOM Project Manager, Chris Rosol, PE, has firsthand, direct experience working on COA engineering on-call contracts. This experience has given him a strong understanding of the processes and procedures required to successfully complete on-call tasks to the City's satisfaction.

Relevance

- Relevant and recent experience delivering multiple tasks under an existing on-call contract
- Understanding of COA and Development Review Committee (DRC) process for project development
- Roadway, drainage, traffic signing and striping, waterline and sidewalk design, traffic signal warrant analysis, HAWK signal warrant analysis, geotechnical analysis
- Construction plan and cost estimate development

City of Albuquerque McMahon Boulevard Extension Project, New Mexico

Reference: Melissa Lozoya, City of Albuquerque, 400 Marquette NW, Albuquerque, NM 87103, 505.768.3661

Key Team Members: Chris Rosol

Cost: $2.1M **Completed:** 2011

The western segment of this project provided the long-anticipated connection of McMahon and Universe Boulevards, including extension of the existing two-lane roadways, extension of a multi-use trail on the north side of McMahon, and construction of a 6-foot sidewalk on the west side of Universe Boulevard. The eastern segment completed the ultimate four-lane section of McMahon Boulevard between Bandelier Drive and Rockcliff Drive. The construction included two additional lanes, medians, a 6-foot sidewalk on the south side of McMahon Boulevard, and a 650-foot retaining wall to the east of Milky Way Street. Other project elements in both segments included topographic and right-of-way surveys, drainage analysis and design, signing and striping, street lighting, and maintenance of traffic during construction. Because of the project's federal funding, AECOM was responsible for assisting the COA in obtaining environmental, utility, right-of-way, railroad, and ITS certifications. This project produced a separate spinoff project as an additional services add-on task to widen the existing two lanes of Universe Boulevard between CNM's Westside Campus driveway to the new McMahon and Universe Boulevards Extension, also requiring coordination with NMDOT.

AECOM was selected to design the next phase of the McMahon Boulevard widening almost 10 years after this first phase. Study and design are currently underway.

Benefit: Our team has extensive experience with COA projects across the city. We understand the standards and expectations associated with delivering surface transportation projects.

Relevance

- Local surface transportation project
- Design, bidding and construction phase support
- Understanding of the COA design development process, including the DRC process
- Full coordination with NMDOT

City of San Antonio, Department of Aviation, On-Call Engineering Design Services

Reference: Dennis D. Fiemeyer, PE, PMP, CM, City of San Antonio Department of Aviation, 457 Sandau Rd., San Antonio, TX 78216, 210.207.3401

Key Team Members: Perry Havenar

Cost: $5.8M **Completed:** Ongoing

AECOM is providing on-call engineering services under a multi-year contract with the City of San Antonio, Department of Aviation for both of its airports — SAT and SSF. The master services agreement covers a broad range of projects, including condition assessment, repair, renovation, upgrades and maintenance of pavements, planning, utility systems, bridges, sign assemblies, area lightning systems, airfield guidance systems, aircraft fueling systems, traffic control devices, and security systems.

Highlighted Task Orders (total of 35 individual unique tasks to date):

- Terminal A Gate Expansion – Planning and detailed design of an additional contact gate to the existing terminal.
- Comprehensive Airport Building Assessment – Asset assessment reporting and data management of existing facilities.
- ARFF Roof and Wall Design – Design and construction administration for the renovations to the existing ARFF Station.
- Terminal A Kids Zone – Design and construction administration of a new customer service amenity area.

Benefit: AECOM is familiar with on-call engineering contracts at similar-sized airports across the United States. Furthermore, we understand the requirements for working in a system of airports, as well as the needs of airports of similar size to ABQ and AEG. Additionally, the wide array of tasks provided allows us to be flexible and knowledgeable in delivering any need the COA may have.

Relevance

- Managed simultaneous engineering on-call tasks at two airports
- Provided wide array of on-call services, including planning, engineering, construction services, and design services
- Key staff have direct experience with this on-call contract.

SNA On-Call Airport Engineering Services Santa Ana, CA

Reference: Sean Lally, Orange County Airport, 18601 Airport Way, Santa Ana, CA 92707, 949.252.6013

Key Team Members: Perry Havenar

Cost: $2.9M **Completed:** Ongoing

AECOM has been serving the John Wayne/Orange County Airport (SNA) for more than a decade. Our services began with evaluation and future needs planning of the SNA general aviation (GA) community through a comprehensive GA Improvement Program (GAIP). This included incorporating three full-service FBOs, two limited service FBOs, flight schools, GA hangars, ramps, tie-downs, self-service fueling, ground transportation, helicopter pads and facilities, GA terminal, and GA International Facility. The program will complied with all applicable FAA Advisory Circulars, Part 77 Surfaces, and TERPS Surfaces. AECOM performed a comprehensive planning review of previously developed concepts, and created a market-based forecast (unconstrained/constrained) of GA activity. The forecast was conducted in a regional context, and the assessment evaluated potential demand for aviation services at SNA. Planning included developing an opportunities and constraints analysis, facility requirements and layout reports, and helicopter operating area requirements. The team also conducted workshops with stakeholders to develop scorecards and sustainability strategies. The scope included preparation of a full ALP update, with a supporting Narrative Report and Exhibit A property map.

AECOM is now in the process of providing these products. We are also assisting SNA to complete a fully compliant FAA AGIS survey with an airspace analysis, safety-critical data and utility mapping, along with nonplanimetric and planned data collection that will support the ALP update.

In 2019, SNA selected AECOM for on-call airport engineering services. As the prime consultant, AECOM provides project management and performs in-house engineering services for the projects identified below. All of this work is compliant with FAA criteria, and AECOM is responsible for providing FAA reporting and documentation for Airport Improvement Program funding. Tasks Include:–Ramp Joint Deal and Pavement Repair–Update Pavement Management System–Taxiway Repairs and Shoulder Improvements–Airfield Lighting and Signage Upgrade–GIS/CAD/BIM Standards–General Area Improvement Program – FBO Proposal Review–NRON Fire Line Repair.

Benefit: AECOM is committed to client satisfaction in both the planning, design, and construction of airport improvements on both the landside and on the airfield. We understand the stringent requirements of both state and federal oversight agencies and work collaboratively to arrive at the most efficient cost effective solutions that achieve our client's goals and direction. The broad range of projects AECOM helped SNA accomplish is testament to our firms depth of service and dedicated staff that stand ready to work with the City of Albuquerque, ABQ, and AEG.

Relevance

- Similar-sized airport to ABQ
- Wide array of engineering on-call services
- Perry Havenar provided planning services for the client

Commercial Lane and Loading Dock Ramp Reconstruction Albuquerque International Sunport, Albuquerque, NM

Reference: Jim Hinde (former Deputy Director), COA Aviation Department, Albuquerque International Sunport, 2200 Sunport Blvd. SE, Albuquerque, NM 87106, 505.710.2850

Key Team Members: Chris Rosol, Rick Tietgens

Cost: $550k **Completed:** 2006

AECOM was issued a task order by the Aviation Department under its multi-year design services contract to design the reconstruction of 800 LF of commercial vehicle lane between the terminal building and parking garage and the terminal loading dock and parking lot pavement. The existing asphalt pavements had served their design life and were in need of reconstruction. These two small but key surface transportation facilities were in the center of Sunport landside operations. Provisions were made for alternate routing of vehicles and passengers during construction to maintain access to the parking structure and airport services.

Benefit: AECOM is familiar with on-call engineering contracts at similar-sized airports across the United States. Furthermore, we understand the requirements for working in a system of airports, as well as the needs of airports of similar size to ABQ and AEG. Additionally, the wide array of tasks provided allows us to be flexible and knowledgeable in delivering any need the COA may have.

Relevance

- Successful completion of a task order for the Aviation Department
- Knowledge of Sunport facilities
- Experience with application of COA design standards and procurement processes for an Aviation Department facility
- Providing design and phasing solutions in a working aviation landside environment

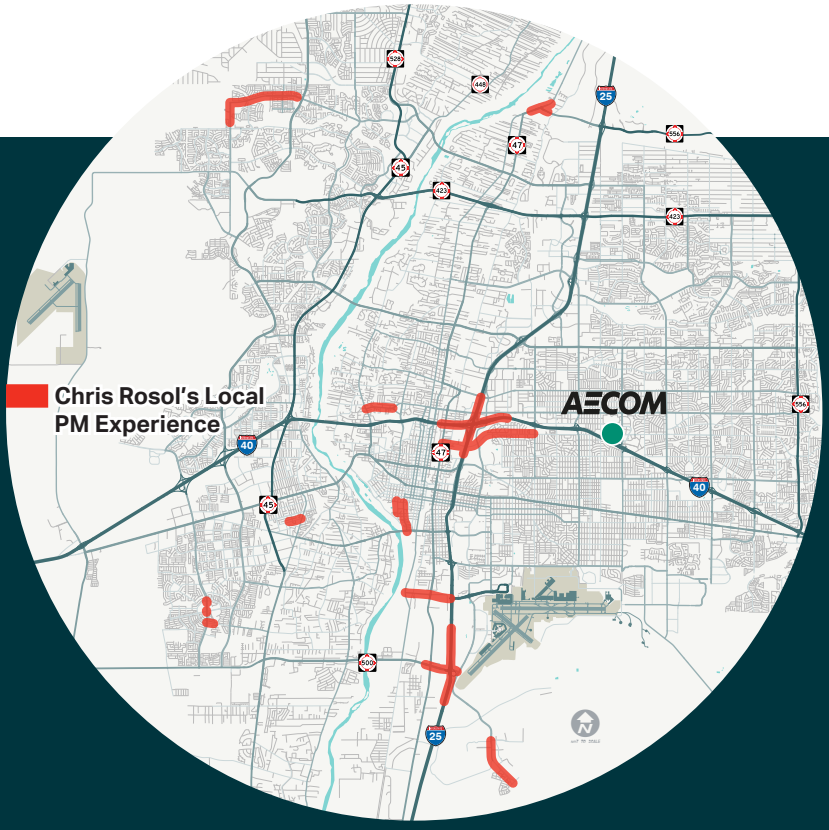
Project Manager's City Experience

Chris Rosol, PE

As previously noted, Chris Rosol has extensive COA experience, including recent, relevant experience serving as the project manager for AECOM's transportation and storm drainage on-call contract with COA. The tasks on this project include roadway reconstruction, drainage analysis and design, soil investigations, traffic studies, and infrastructure improvements. Chris also managed three tasks that were performed by other engineering companies.

The tasks performed are as follows:

- Blake Road Widening at 98th Street
- Townsend Drainage Analysis Report
- Juan Tabo Boulevard Pavement Distress Investigation
- Painted Pony Sediment Analysis
- Marble-Arno Pond
- Central and Yucca
- Blake Road Widening Right-of-Way
- Quaker Heights Fire Protection and Storm Drain Improvement
- Carlisle-Hannett HAWK
- Indian School Road Diet (Carlisle to Broadway)
- Indian School Road Diet (Menaul/12th Street to Rio Grande)



In addition to the on-call engineering and drainage contract, Chris has led or supported the following COA projects:

- Project No. 7532, Bridge and Trail Evaluation Study, Design Review of Signing and Striping
- Project No.6816.04, McMahon Boulevard Extension, Deputy Project Manager
- Project No.6816.04, Universe Widening Project (as Additional Services Task)
- Project No.6483.91, 8th Street Streetscape, Project Manager
- Project No.7326.91, I-25/Rio Bravo Interchange Improvements

Through his experience on the projects listed above, Chris is very familiar with COA and NMDOT processes, including interfacing with the DRC Section and finalizing contract documents, bid and construction phase services.

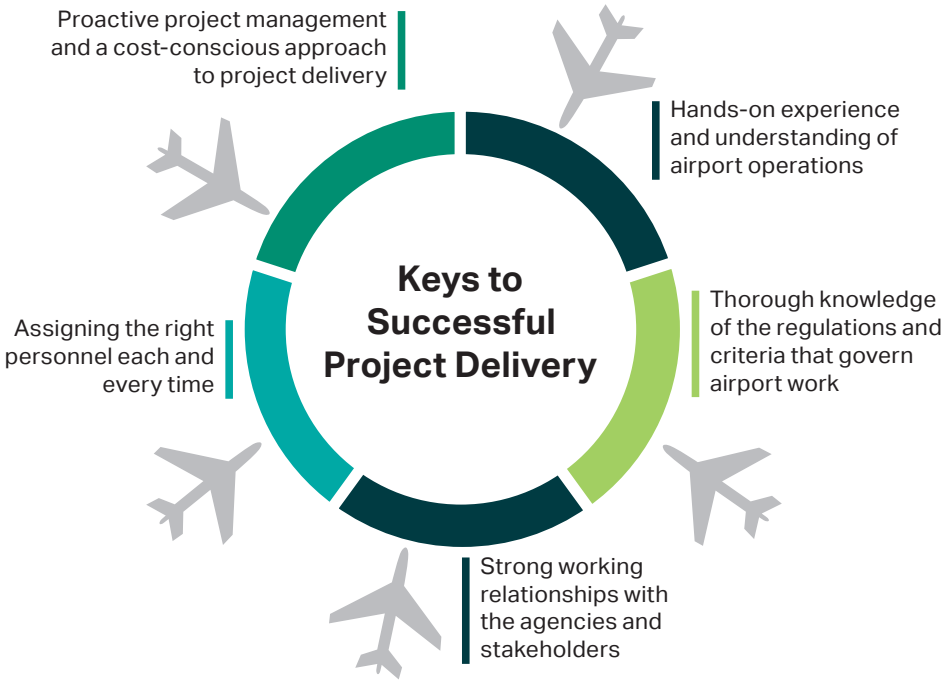
> **"NMDOT needed the dedication of a strong design team that would deliver this project on a new fast-track schedule and with a design concept that would address the significant transportation needs of this location. AECOM met this requirement and exceeded the expectations of the NMDOT under the expedited schedule."**
>
> **Kenneth Murphy, PE, NMDOT District 3 Engineer**
> **I-25/Rio Bravo Boulevard Interchange Reconstruction**

IV. Technical Approach

Understanding of the Project Scope

AECOM is excited for the opportunity to serve the City of Albuquerque as an on-call consultant for the Capital Implementation Program (CIP). We have assembled a team that is capable of conceptualizing, designing, and delivering a wide variety of project types, including landside, airside, and vertical programs that meet local, NMDOT, and FAA standards and regulations.

Our team is composed of individuals who are experienced in producing **quality** work, with an **understanding** of funding mechanisms and interested stakeholders, and a reputation for **accurate** cost estimating for proposed improvements at the Albuquerque International Sunport and Double Eagle II airports.



The anticipated scope of projects focuses on landside roadway and parking lot improvements; thus, we have prepared our team to tackle these types of projects. However, our proposed Project Manager, Chris Rosol, PE, has assembled a team capable of delivering any type of CIP work the airport requires, with the depth of personnel needed to carry **multiple task orders simultaneously** at the level of quality the City, FAA, NMDOT and AECOM demand.

On-Call Management

Project Manager Chris Rosol has delivered several on-call contracts throughout his career. This experience has given him a strong understanding of the advantages and limits of on-call contracts. As a skilled project manager, he knows to ask the important questions about desired outcomes before forging ahead with proposed scopes, personnel allocation, schedules, and fees for each task. His ability to guide the development of tasks to achieve desired outcomes is a true value added.

During the scoping of a task, it may be determined that planning and/or early design efforts are necessary to better define the goals and expectations. These planning and design efforts, and the costs associated with them, may lead to the conclusion that the task is larger or more costly than originally envisioned. In such cases, the task may be transformed into assisting the city with the design development of a project, initial investigatory tasks or the preparation of a scope of services to be incorporated in a standalone RFP. **Keeping the outcome in mind and the City of Albuquerque's interests at heart will guide our perspective in accomplishing each task order.**

Once we have a well-defined scope, Chris will begin to allocate the team to specific roles, with well-defined schedules and delivery expectations. If multiple task orders arise, Chris has the necessary bench depth to deliver the additional work while managing each task.

Having contingency measures in place through our depth of personnel allows Chris's team to respond rapidly and expedite delivery when needed. It also helps to eliminate risk that other teams may encounter when tasked with multiple assignments.

Regardless of the number of assignments we take on or the aggressiveness of the schedule, we consistently apply AECOM's rigorous quality management system, discussed later in this section, to make sure standards and regulations are adhered to, and City requirements are met.

Our approach is further enhanced by effective communication, which involves internal parties, external agencies and stakeholders throughout project delivery. We establish these needs on a task-by-task basis, and hold daily, weekly, or monthly meetings for different subtasks within the overall program at hand. This focus is critical to our success, and why AECOM can maintain clients through repeat awards. We look forward to continuing to build upon our relationship with the City of Albuquerque and meeting your needs as a trusted consultant.

AECOM offers a proven, consistent approach to providing quality work, on time and within budget, for COA task orders.

Project Management / Schedule and Budget Management / Quality Assurance and Quality Control

Planning | **Design** | **CONSTRUCTION**

Scope Development
- Scope of Work
- Limits of Work
- Proposed Layout
- Limits of Survey/ Geotech Investigation
- Deliverables
- Design Schedule
- Proposed Compensation

30% Design Documents
- Record Document Review
- Survey/Geotech Investigation
- On-Site Pavement Drainage, Electrical, Lighting, and Signage Reviews
- Development of Schematic Plans
- List of Specifications
- Definition of SWM and Permitting Requirements
- Engineering Reports
- Cost Estimate
- Bid Packages

50% & 100% Construction Docs
- Technical Review Meetings
- Further Development of Plans
- Technical Specifications
- Front End Specifications (100%)
- Further Development of Engineering Report and Cost Estimate
- Obtain Permit

Bidding Services
- Incorporate 100% Comments into Bid Documents
- Develop Bid Estimate
- Prepare Formal Advertisement
- Issue Bid Documents & Respond to Addenda
- Facilitate Pre-Bid Meeting
- Prepare Bid Tabulation
- Prepare Bid Recommendation Letter

Construction Services
- Develop Construction Documents
- Support / Provide Construction Management (CM) for Pre-Construction Meeting
- Perform Construction Administration Services, RFI's and Shop Drawing Review
- Inspection
- Assist with Project Closeout

Permitting / Environmental / Compliance

Quality

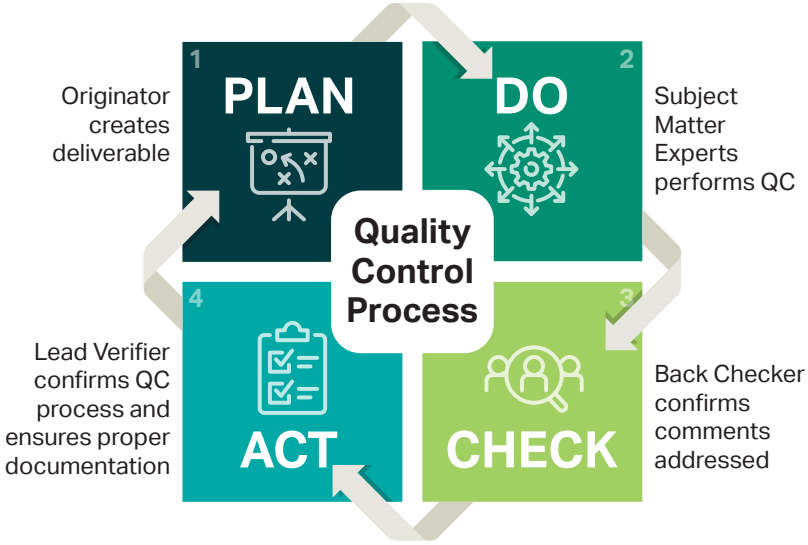
Quality management is central to our project management approach. AECOM will employ a proven quality management system (QMS) that is certified to the internationally renowned ISO 9001:2015 standard, yet sufficiently flexible to address the specific requirements of the City of Albuquerque for this contract. We have assigned Jeff Warkoski, PE, as the project QA/QC Manager responsible for quality and implementation of the quality program.

One way we maintain quality is by using experienced project managers. Project Manager Chris Rosol, PE, has over 20 years of experience, is a company-certified project manager, and has demonstrated the competence and ability to control the quality of all technical efforts.

Initiating Quality. Quality begins at contract award. As each task assignment is received, a rigorous QA/QC process is implemented that follows the project from the initial kickoff meeting through closeout and solicitation of client feedback. Assigning technically qualified and experienced personnel to produce and review the work is an important step. Our initial planning and scheduling activities, including defining the various project work tasks and associated quality activities, are foundational to a successful project.

Producing Quality. AECOM requires a project plan on all projects to define key parameters and guide the work of the team. This plan is discussed at the project team kickoff meeting and updated as needed to inform the team of new developments. We include our clients throughout this process to ensure that their needs are being met and offer opportunities to point out any concerns. As work proceeds, several critical technical activities are undertaken, including:

- Proper application of codes, standards, and design criteria
- Ongoing oversight and supervision for accuracy and completeness as work proceeds
- Distribution of in-progress documents at defined intervals for quality review
- Coordination among disciplines
- Verification of compatibility and consistency among document types, such as drawings and specifications
- Resolution and closure of in-progress review comments



Confirming Quality. While it is important to build quality into the work as it is performed, formal checking and review are critical activities. Quality-confirming activities, which are all documented with two-level approvals, include:

- Checking calculations to verify correctness and completeness of mathematics, methodology, selection of software, application of standards and codes, and general approach
- Checking drawings within each discipline to confirm design layout, dimensions, and details. Potential interferences, conflicts, and interface issues are resolved through interdisciplinary reviews.
- Checking specifications for content and application, as well as compliance with the prescribed format, and consistency throughout the specifications
- Checking studies/reports for content, logic, clarity, and soundness of recommendations, as well as grammar, punctuation, and format

Improving Quality. A key component of AECOM's quality program and ISO 9001 enforcement is continuous improvement. We learn from our experiences and apply those lessons to future work through a formal, iterative process. The true focus of this process is to generate client satisfaction, one of AECOM's core values.

Delivering Quality. All deliverables (prime and subconsultant) undergo a final verification check before they are submitted. An independent reviewer evaluates the deliverable for completeness and consistency, adherence to quality requirements, and resolution of comments. The reviewer then signs a Deliverable Release Form and transmits it to our Project Manager, who is then responsible for the final review, approval, and submittal. This final independent evaluation assesses the submittal's state of readiness without diminishing the project manager's accountability for the quality of the work being released. As a check-and-balance activity, this review pairing helps AECOM deliver quality and value to our clients consistently.

Sample Project Approach

Wear and tear to landside facilities is common, and constant maintenance and rehabilitation is required to maintain the level of service customers expect. A small but pertinent example would be improving and upgrading the exit/entrance to the existing cell phone waiting lot at ABQ. This facility is becoming more popular due to our evolving ways of traveling, such as use of transportation network companies (TNCs). The following is a brief example of how our engineering team would handle improvements to the cell phone lot at ABQ.

Kickoff. Once the task order is received, Chris will gather specific team members who will support the task, including our survey, geotech, drainage, utilities, and civil task leaders, to prepare a scope and fee for review by the Department of Aviation. After review, we will make sure all stakeholders and staffers involved with this project agree on the scope of work.

Investigative Services. Chris will work with our team to survey and provide geotechnical investigation services. Additionally, we will carry out a field investigation of existing utilities and observe the operation of the facility to understand how to phase the project to reduce impacts to operations.

Concept Design. With investigative services complete, our team will develop a concept-level design, along with possible alternatives to allow for proper phasing to minimize operational impact. We will review this design with stakeholders and staffers to ensure that the improvements are acceptable and the phasing is manageable. Additionally, based on our vast civil experience from across the city, we will prepare a construction estimate to be reviewed with the concept design and alternatives.

Construction Documents. After approval of the concept design, our team will take the design to the construction document level. We anticipate intermediate reviews and approvals during the final design process. Any changes or adjustments will be considered prior to construction bidding.

Procurement and Permitting. We will submit the documents for permitting and, once approved, we will bring them to procurement for construction bidding. Based on the engineer estimates, we will have an accurate idea of the budget and construction price. After construction bids are received, we will work with the City to evaluate the bids and provide recommendations to move forward.

Construction Phase Services. Our team will hold a kickoff meeting with the contractor and stakeholders to start the work and subsequently evaluate and track progress through our construction support staff.

Closeout. Once the project is complete, we will assure that final acceptance is received by the City and prepare closeout documentation. Additionally, we will make sure to check the final product regularly to assure compliance and make sure it is performing as designed.

V. Cost Control

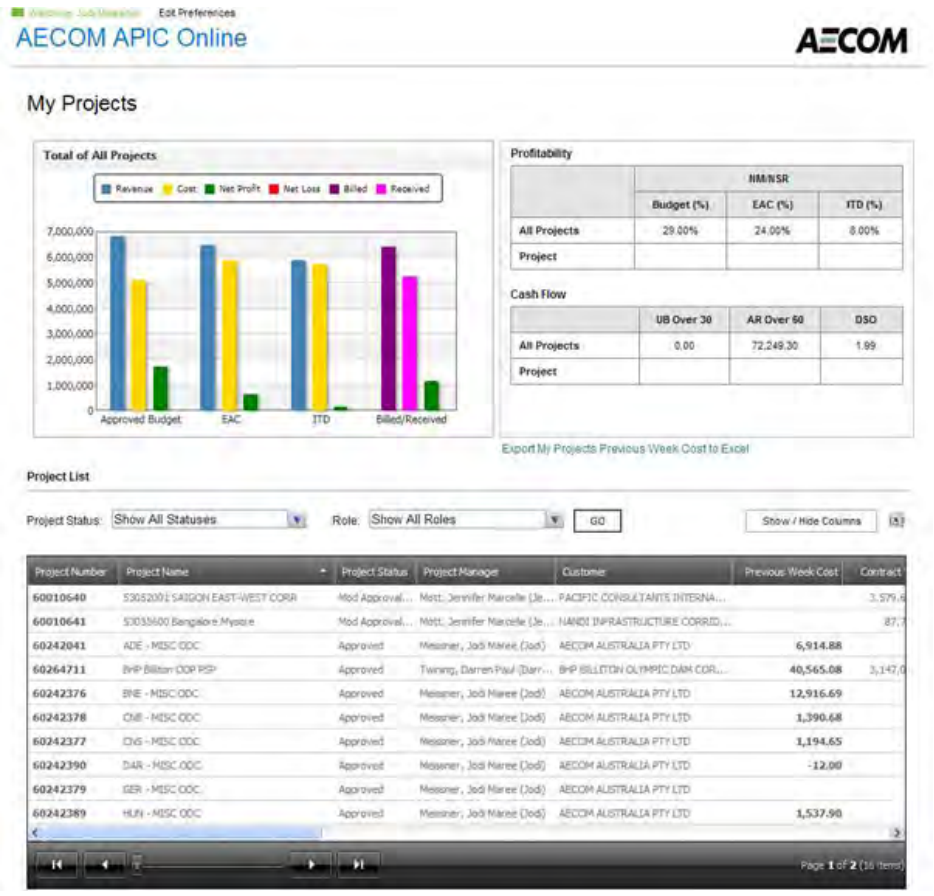
We understand that cost control is of paramount importance to the COA, ABQ, and AEG in these days of shrinking budgets. Using the limited funds available to provide the best projects is a daily challenge. Over the course of many projects, we have developed the following approaches to controlling costs:

Design Cost

AECOM has unmatched familiarity with local surface transportation and aviation projects. We expect that, in some cases, we may be able to build upon already existing design and analysis efforts to deliver tasks under this on-call contract to save time and effort, and ultimately reduce costs.

The AECOM team also brings a proven approach to achieving cost-efficient delivery of all phases of the project life cycle. We leverage innovative technology platforms, tools, and best practices to enable teams to work smarter and more efficiently on behalf of our clients.

One of the tools used to control costs and measure project performance during the design phase is APIC - AECOM Project Information Center. The APIC system takes multiple inputs during the project setup including schedule, work breakdown structure, budgets and transactional cost details and integrates them into a common interface. By integrating these multiple inputs a project's overall performance can be viewed in a single dashboard which includes all key performance indicators and allows for multiple levels of project analysis. The APIC system is a powerful tool in managing change during the project execution process and delivering successful projects for our clients.



Construction Cost

We will develop construction cost estimates at each milestone submittal. Unit prices will be based on historical unit prices for the bid items of similar projects, as described in detail in this section. We will adjust each historical unit price as necessary based on the project quantity, constructability conditions at the specific project site (including unique construction phasing), and changes in material costs due to local and national trends.

We understand that project funds are limited, and we will assist the COA, ABQ, and AEG in prioritizing improvements, starting with the study phase and continuing through final design. We have used this approach successfully on projects of varying sizes in the past. When construction costs were anticipated to be higher than budgeted amounts, we worked with staff to identify ways to reduce construction costs, including eliminating or deferring some elements of work and/or reducing the project's physical limits.

Cost Estimating Techniques

As shown our team uses a combination of sources of information in preparing construction cost estimates and includes:

- Bid tabulations from previous COA, ABQ, AEG, and/or NMDOT projects.
- Bid tabulations from other AECOM projects, as shown below.
- Historic (average weighted) year-end unit price data and rolling 12-month updated unit price data for "major items" published by NMDOT.
- Historic construction cost data published by RSMeans with local/

regional adjustment factors for the Albuquerque metropolitan area.

- "Bottom-up" estimates based on detailed construction schedules and phasing plans, current material costs in the Albuquerque area, and estimated production rates.

Comparisons of Estimate with Bid Award Amount

The table below illustrates AECOM's construction cost estimates, alongside the winning bid for projects of varying size and complexity, locally for COA and nationally for aviation landside projects. In most cases, the contractor's bid price was close to the engineers estimate.

Project	Month/Year Bid	# of Bids	Engineers Estimate	Bid Award Amount
NM 4 Bridge Replacement	8/1/2019	4	$5,323,900	$5,683,800
Kirtland Walk Paths San Juan County	8/1/2019	1	$814,600	$891,800
Quaker Heights Fire Protection	10/1/2019	2	$366,643	$406,786
Palm Beach County - Department of Airports - Wallis Road Phase 2	4/1/2021	8	$1,069,049	$885,570
Palm Beach County - DOA - Security Fencing Improvements	4/1/2021	2	$1,085,100	$1,099,667
Palm Beach County - DOA - Vehicle Service Road Relocation	5/1/2021	3	$484,370	$452,773
Woodward Road, Bernalillo County	5/1/2021	2	$814,600	$891,800

* It should be noted that the engineer's estimate for the recent Quaker Heights Fire Protection bid was calculated using the City's 2018 published Average Unit Bid Prices and applying a inflation factor intended to account for rising costs that were anticipated to match that of inflation. During the bid analysis, we became aware that discrepancy between the engineer's estimate and the bid award amount likely reflects a degree of volatility in the marketplace for some materials, a tightening labor market and the small size of the project relative to other projects competing for the same resources. AECOM believes this trend is likely to continue in 2021 and beyond and will work with the City to establish estimated unit prices that more closely match the market prices the City is receiving on project bids, taking into account this market volatility and project scale.

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 On-Call Engineering for the Albuquerque International Sunport and the Double Eagle II Airport

Project Number Project No: 7540.00

Date 7/14/2021 Firm Name AECOM Technical Services, Inc.

Signature Ross A. Lyon

Title Associate Vice President

STATE OF NEW MEXICO)

) ss

COUNTY OF BERNALILLO)

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

_____

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

_____ day of _____ , 20 _____

_____

(Notary Public)

My commision expires: _____

Per RFQ instructions we have included a copy of our general and professional liability insurance coverage in lieu of the notary stamp.

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 03/31/2021

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Marsh Risk & Insurance Services CA License #0437153 633 W. Fifth Street, Suite 1200 Los Angeles, CA 90071 Attn: LosAngeles.CertRequest@Marsh.Com CN101348564-STND-GAUE-21-22	**CONTACT NAME:** James Vogel **PHONE (A/C, No, Ext):** 213-346-5098 **FAX (A/C, No):** 212-948-0533 **E-MAIL ADDRESS:** James.l.vogel@marsh.com
INSURED AECOM 1999 Avenue of the Stars, Suite 2600 Los Angeles, CA 90067	**INSURER(S) AFFORDING COVERAGE** — **NAIC #** **INSURER A :** ACE American Insurance Company — 22667 **INSURER B :** N/A — N/A **INSURER C :** Illinois Union Insurance Co — 27960 **INSURER D :** SEE ACORD 101 **INSURER E :** **INSURER F :**

COVERAGES **CERTIFICATE NUMBER:** LOS-002541866-01 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS		
A	X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: X POLICY PRO-JECT LOC OTHER:			HDO G72486304	04/01/2021	04/01/2022	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG 	$ $ $ $ $ $ $	1,000,000 1,000,000 5,000 1,000,000 2,000,000 2,000,000
A	AUTOMOBILE LIABILITY X ANY AUTO OWNED AUTOS ONLY HIRED AUTOS ONLY SCHEDULED AUTOS NON-OWNED AUTOS ONLY			ISA H25549211	04/01/2021	04/01/2022	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) 	$ $ $ $ $	1,000,000
	UMBRELLA LIAB OCCUR EXCESS LIAB CLAIMS-MADE DED RETENTION $						EACH OCCURRENCE AGGREGATE 	$ $ $	
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N: N — N/A If yes, describe under DESCRIPTION OF OPERATIONS below			SEE ACORD 101	04/01/2021	04/01/2022	X PER STATUTE OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ $ $	 2,000,000 2,000,000 2,000,000
C	ARCHITECTS & ENG. PROFESSIONAL LIAB.			EON G21654693 005 *CLAIMS MADE*	04/01/2021	04/01/2022	Per Claim/Agg Defense Included		2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

EVIDENCE OF COVERAGE

Contractors Pollution Liability, Carrier: AIG Specialty Insurance Company, NAIC #26883, Policy #: CPL 1814870, Policy Term: 04/01/2021 – 04/01/2022, "Claims Made," Defense Included, Limit: $2,000,000 Per Loss/Aggregate

CERTIFICATE HOLDER

AECOM
1999 Avenue of the Stars, Ste. 2600
Los Angeles, CA 90067

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.

AUTHORIZED REPRESENTATIVE
of Marsh Risk & Insurance Services

James L. Vogel

AGENCY CUSTOMER ID: CN101348564
LOC #: Los Angeles

ADDITIONAL REMARKS SCHEDULE

AGENCY	NAMED INSURED
Marsh Risk & Insurance Services	AECOM 1999 Avenue of the Stars, Suite 2600 Los Angeles, CA 90067
POLICY NUMBER	
CARRIER / NAIC CODE	EFFECTIVE DATE:

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
FORM NUMBER: 25 FORM TITLE: Certificate of Liability Insurance

Workers Compensation/Employer Liability cont.

Policy Number	Insurer	States Covered
WLR C67806025	Indemnity Insurance Company of North America - NAIC # 43575	AOS
WLR C67805987	ACE American Insurance Company - NAIC # 22667	CA, MA
SCF C67806104	ACE American Insurance Company - NAIC # 22667	WI Retro

INSURANCE SUMMARY

General Liability
Carrier: ACE American Insurance Company (AM Best rating: A+ XV)
Policy Period: 4/1/21 - 4/1/22
Limits: In excess of $10,000,000 per occurrence/$10,000,000 general aggregate

Automobile Liability
Carrier: ACE American Insurance Company (AM Best rating: A+ XV)
Policy Period: 4/1/21 - 4/1/22
Limits: In excess of $5,000,000 CSL

Umbrella Liability
Carrier: ACE Property and Casualty Insurance Co (AM Best rating: A XV) Policy Period: 4/1/21 - 4/1/22
Limits: In excess of $1,000,000

Professional Liability:
Carrier: Illinois Union Insurance Company (AM Best rating: A+ XV)
Policy Period: 4/1/21 - 4/1/22
Limits: In excess of $2,000,000 per claim/aggregate

Workers Compensation/Employers Liability
Carrier: ACE American Insurance Company (AM Best rating: A XV)
Policy Period: 4/1/21- 4/1/22
Limits: Statutory/$2,000,000

Broker for the above coverages:
Marsh Risk and Insurance Services, Inc.
777 S. Figueroa Street
Los Angeles, California 90017
(213) 346-5082

Pay Equity Reporting Form

City of Albuquerque
www.cabq.gov

Bernalillo County
www.bernco.gov

Water Authority
www.abcwua.org

Company Details

Company Name	AECOM Technical Services, Inc.
Phone	505.855.7500
Email Address	sw.area.marketing@aecom.com

Mailing Address	One Park Square 6501 Americas Parkway NE Albuquerque NM, 87110-6367
NM Employees?	yes

Job Category		No. Females	No. Males	Gap (Abs. %)
1.1	Exec/Senior Level Officials/Mgrs	0	0	N/A
1.2	First/Mid Level Officials/Mgrs	0	14	N/A
2	Professionals	10	31	5.30%
3	Technicians	1	9	39.27%
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	12	54	11.96%

Total # of Females (all categories)	12	Total # of Males (all categories)	54
Total # Female Only Job Categories	1	Total # Male Only Job Categories	1
Total # Part Time Females	4	Total # Part Time Males	12
Female % Workforce	18.18%	Male % of Workforce	81.82%
Total # Employees	66	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.

Ross Lujan, PE, Associate Vice President	Ross Lujan	Jul 2, 2021
Name and Title	Signature	Date Submitted

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

☐ **Certified - Overall Gap is 0%**

☑ **Uncertified - Overall Gap is more than 0%**

Gender Pay Equity Representative

Company ID: 312

About AECOM

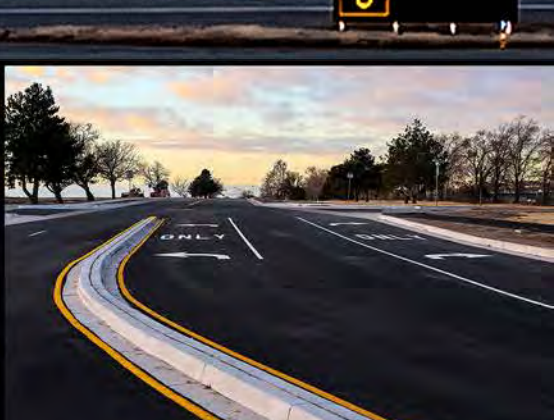
AECOM is the world's trusted infrastructure consulting firm, delivering professional services throughout the project lifecycle — from planning, design and engineering to program and construction management. On projects spanning transportation, buildings, water, new energy and the environment, our public- and private-sector clients trust us to solve their most complex challenges. Our teams are driven by a common purpose to deliver a better world through our unrivaled technical expertise and innovation, a culture of equity, diversity and inclusion, and a commitment to environmental, social and governance priorities. AECOM is a *Fortune 500* firm and its Professional Services business had revenue of $13.2 billion in fiscal year 2020. See how we are delivering sustainable legacies for generations to come at aecom.com and @AECOM.

aecom.com

CITY OF ALBUQUERQUE

On-Call Engineering for the Albuquerque International Sunport and Double Eagle II Airport

Project No. 7540.00 | July 14, 2021



MOLZENCORBIN

ENGINEERS | ARCHITECTS | PLANNERS

MOLZENCORBIN

July 14, 2021

Ms. Myrna Marquez, Administrator and Chair
Selection Advisory Committee Office
Capital Implementation Program Division Office
One Civic Plaza, 7th Floor, Room 7057
Albuquerque/Bernalillo County Government Center
Albuquerque, NM 87102

RE: Project No. 7540.00, On-Call Engineering for the Albuquerque International Sunport and Double Eagle II Airport

Dear Ms. Marquez and Members of the Selection Committee:

Molzen Corbin is proud to offer the attached submittal for On-Call Consultant Services for the Albuquerque International Sunport and the Double Eagle II Airport. We believe that our team's extensive technical knowledge and familiarity with these facilities, gained from our history of working with the Aviation Department and the City of Albuquerque, will result in innovative, cost-effective designs and timely completion of your projects. After 50+ years, the Molzen Corbin team remains committed to the success of the City's aviation facilities.

- **We offer consistency and institutional knowledge of the facilities that will provide efficiency and cost effectiveness over the life of the contract.** Our decades of experience working on projects at both airports will enable thoughtful design decisions and timely action, ensuring that the City receives the maximum value for your project dollar. Our project manager has teamed with the Aviation Department on projects for the past 32 years. Our project team members all have previous experience working on Aviation Department projects, including sustainability projects.
- **Our delivery model prioritizes service.** In addition to engineering design, Molzen Corbin provides vital and necessary services that can be crucial in the success of a project, such as developing the Disadvantaged Business Enterprise (DBE) program and project goals, assisting with the preparation of grant documentation for funding purposes, and providing day-to-day assistance on issues such as pavement marking, airfield guidance and traffic sign modifications, and erosion control. In addition, we provide confidential layouts and cost estimates to assist economic development efforts and conceptual project programming.
- **We will provide rapid response — we pride ourselves on our availability and flexibility.** We have repeatedly proven our commitment to the Aviation Department with rapid, personalized customer service. With offices adjacent to the Sunport, our lead project team members can be at the Aviation Department within minutes to address the day-to-day needs of this contract. We are not a large, national firm and can accomodate changing environments and needs quickly and efficiently. We are accessable at any time for whatever the Aviation Department may need.

We trust that the following submittal demonstrates the benefits of hiring the Molzen Corbin team for this contract. We look forward to continuing to work with you.

Sincerely,
MOLZEN CORBIN

Kevin W. Eades, PE
Chief Executive Officer

Mike Provine, PE
Vice President and Senior Civil Engineer

2701 Miles Road SE, Albuquerque, NM 87106 505 242 5700 Tel 505 242 0673 Fax MolzenCorbin.com

Table of Contents

Required Forms

Agreement and Insurance Certification*
Pay Equity Reporting Form
Insurance Certificate

*as per the RFP, we have included our Insurance Certificate in lieu of the notary stamp.

I. General Information

About Molzen Corbin

Molzen Corbin is a nationally-ranked firm with deep aviation roots in this State. **In 1954, founding partner Al Corbin began working on the Albuquerque Sunport** when it was still part of Kirtland Air Force Base. Our aviation specialists apply decades of technical expertise, institutional knowledge, and project experience to develop solutions tailored to the needs of each client. We serve airports of all sizes, from Albuquerque International Sunport to the Angel Fire Airport, as seen in **Figure 1** at right.

Name, Address, Telephone Number and Date When Firm Was Established

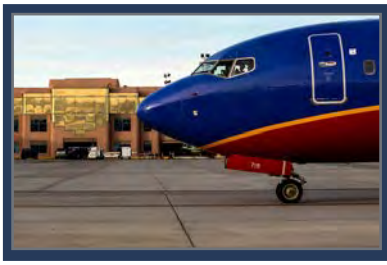
Molzen Corbin was established in 1960. Our corporate offices are located at 2701 Miles Road SE, Albuquerque, New Mexico, 87106, (505) 242-5700.

Employees, Technical Disciplines and Registration Data

Molzen Corbin offers a staff of 88 professionals and support personnel. For discipline and registration data of project team members, please see the résumés on pages 2 and 3.

In-House Staffing Breakdown

Architecture Dept	8
Civil Engineering Dept	21
Water Resources Engineering Dept	15
Electrical/Mechanical Engineering Dept	5
CAD/Design Technicians	12
Construction Observers	10
Surveyors	3
Grants Specialist	1
Computer Specialists	1
Administrative/Clerical	12
Total Molzen Corbin Staff	**88**



Our partnership with the City of Albuquerque Aviation Department spans five decades, providing unmatched support to the International Sunport and the Double Eagle II Airport.

Subcontractor Staffing Breakdown

Geo-Test, Inc.	30
Coffman & Associates	24
AECOM (Local Structural Staff)	4
Consensus Planning	10
Total Available Staff	**68**

Where Services are to Be Performed

Molzen Corbin's in-house staff will perform all work from our Albuquerque offices located **less than one mile from the Albuquerque Aviation Department.** Our subconsultants will provide work from:

Albuquerque

- Geotechnical — Geo-Test, Inc., 8528 Calle Alameda, NE
- Structural Engineering — AECOM, 6501 Americas Parkway, Suite 900
- Community Planning — Consensus Planning, 302 Eighth Street, NW

Other

- Airport Environmental/Planning – Coffman Associates, Kansas City, Missouri

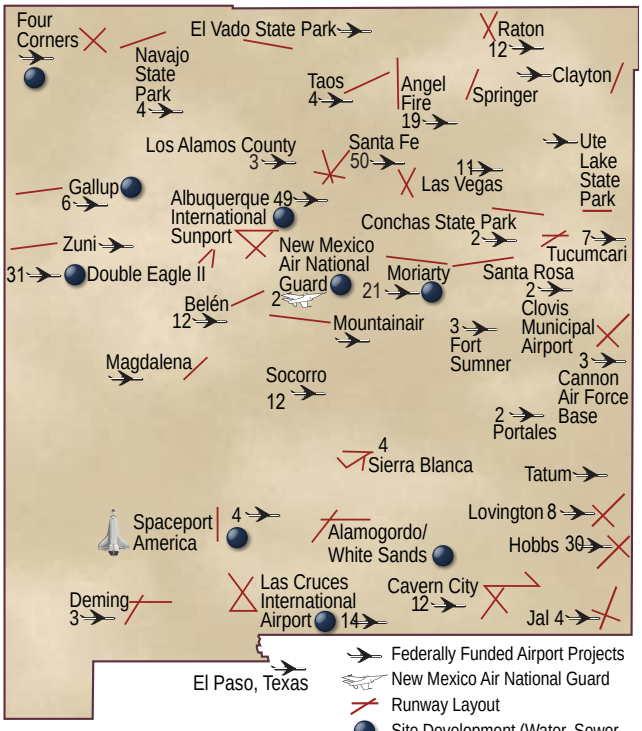


Figure 1. Molzen Corbin's Statewide Airport Experience

II. Project Team Members

Organization Plan for Management of the Project

The responsibilities, organization, and lines of communication of our project team are depicted in **Figure 2** below. All key members of our Airport Team have worked together on Sunport Projects for over 20 years. The résumé of our proposed project manager, Mr. Mike Provine, PE, is provided below and continues on page 3. Résumés of additional team members follow on pages 3–4.

Figure 2. Molzen Corbin's project team can be at Double Eagle II and Sunport quickly and will "hit the ground running" on your projects.

City of Albuquerque
Ms. Rhonda Methvin, PE
Project Manager
Aviation Department

Stakeholders
Airlines and Tenants
COA DMD
FAA Air Traffic Control
FAA Technical Ops
COA Planning

Principal-in-Charge
Kevin Eades, PE

Project Manager
Mike Provine, PE, CM

- Primary point of contact with the City
- Coordinates Design Team efforts
- Manages budgets and schedules
- Meets with the Aviation Department, the City, and other stakeholders

QA/QC
Kent Freier, PE

Architecture & Landscape Architecture
John Quinn Pate, RA, RLA
Vince Payne, AIA
Jessie Lewis

Civil Engineering
Mike Provine, PE, CM
Kent Freier, PE, CFM, CM
Dale Salazar, CET
Steve Morrow, PE, CFM
Jose Lovato, SET

Mechanical, Electrical, and Plumbing Engineering
Daniel Gonzales, PE
Paul Romero, PE
Andy Reilly, PE

Water Resources Engineering
Ken Muller, PE

DBE Program
Debi Dodge

- Prepare plans, drawings, specifications and contract documents.
- Help keep project on schedule and lead day-to-day activities.
- Provide rapid response and field inspection.

Additional Support Staff
DBE Program and Goals
Specifications Specialists
Administrative/Clerical
Information Systems
Public Involvement Specialists
Surveyors
Design Technicians & CAD
Grants Administrators
Construction Observers

- Provide surveying services
- Provide support for technical studies/ analysis
- Provide grant administration
- Provide FAA administrative assistance (DBE, SMS, ODO, and Air Space Analysis)

Subconsultants

AECOM
Structural

Geo-Test
Geotechnical Services

Coffman Associates
Environmental & Airport Planning

Consensus Planning
Community Planning

Qualifications of Project Team Members

Mike Provine, PE, CM: Project Manager

Education: B.S. Civil Engineering, New Mexico State University | **Registration:** NM PE #10997 | **Membership:** New Mexico Airport Managers Association; American Society of Civil Engineers; American Association of Aviation Executives (Certified Member Accreditation)

Mr. Provine has served as Project Manager on Molzen Corbin's On-Call Contract with the City's Aviation Department projects for over 32 years, and offers unparalelled familiarity with your airfield facilities, long-term goals, and short-term needs. During his **36-year career**, he has served as the project manager and project engineer on airfield improvements, streets, sanitary and storm sewer systems, water distribution and transmission lines, water wells and reservoirs, and site grading and drainage projects. Representative projects follow on the next page.

Albuquerque International Sunport

- Albuquerque Aviation On-Call Engineering Services (4)
- Spirit Drive and GA Parking Reconstruction
- Terminal Crosswalks and Vehicle Barriers Enhancements
- Orion Center Development
- ACE Site Development Plan and Improvements (5 Phases)
- Matheson Air Cargo Slab Replacement
- Credit Card Parking Improvements
- Parking Entrance Evaluation
- Taxiway F6 Construction
- Airfield Pavement Projects (14)
- eGSE Charging Station Installation
- Cooling Tower Replacement
- Central Utility Plant Boiler Replacement
- Airfield Lighting Upgrade with LED Lights
- Runways 8-26 and 12-30 Reconstruction
- Taxiway Reconstruction (5)
- Air Cargo Freight Apron Extension
- Terminal Apron Reconstruction (3)
- Sunport Boulevard Pavement Rehabilitation
- Clark Carr/University Boulevard Intersection Improvements
- Part 150 Noise Study
- Airport Drainage Master Plan
- Master Plan Update (3)
- Photovoltaic Array Installations (3)

Albuquerque Double Eagle II (DEII) Airport

- Perimeter Security Fence Upgrades (2 Phases)
- Taxiway A and B Realignment
- DPS Hangar Civil Site Design
- Airfield Electrical Vault Relocation
- Runway Extension Environmental Assessment
- Air Traffic Control Tower Environmental Assessment and Construction
- Airfield Maintenance Facility
- Fiber Optic Trunk
- Airport Land Acquisition Assistance
- Atrisco Vista Blvd. Reconstruction
- Airport Master Plan Update
- DEII Infrastructure Improvements (Water and SAS)

Torrential rains caused serious erosion, and runoff flooded several businesses located off the end of the Sunport's Runway 3. Molzen Corbin's quick analysis of the storm flows and library of historical photos, and knowledge of the Sunport's drainage enabled a concise report of the cause of the flooding and eliminated claims.

Team Member	Qualifications
Kevin Eades, PE: Principal-in-Charge Registration: NM PE #14481 | Education: BS, Civil Engineering, New Mexico State University (NMSU) | Memberships: ASCE; American Council of Engineering Companies (ACEC); NMSU Academy of Civil, Agricultural, and Geological Engineering	**27 years of experience** and Molzen Corbin's executive vice president. Extensive experience managing contracts, coordinating projects and master plans, and working with communities across New Mexico. Strong project management and client relations experience and is especially talented in working with clients on a one-to-one basis to ensure that their organizational needs are met.
Kent Freier, PE, CFM, CM: QA/QC and Design Engineer Registration: NM PE #8182, NM CFM# 13-00337 | Education: BS, Civil Engineering, Texas Tech University | Memberships: ASCE, American Association of Airport Executives (AAAE), NM Flood Plain Manager's Association	**43 years of engineering experience, including 15 successful projects for the City of Albuquerque's Aviation Department. DEII** projects include the ARRA-funded RW 4-22 and TW A Reconstruction, Midfield Development Taxilanes and Aprons, and Drainage Masterplan; **Sunport** projects include RW 8-26 and site grading and drainage for the 55-acre Rental Car Facility site.
Dale Salazar, CET, ATSSA: Senior Design Technician Registration: Traffic Control Supervisor, ATSSA; Transportation Engineering Technology Design Level I – NICET | Education: AS, Drafting/CAD Management, Muir College	**31 years of experience.** Lead design technician for **more than 20 projects for the Aviation Department. DEII:** Runway (RW) 4-22/Taxiway (TW) A, RW 17-35, TW B, and the Aerospace Technology Park Infrastructure Development. **Sunport:** TW A Phase A, B, and C; RW 8 and 12 De-couple, South General Aviation (GA) Apron Reconstruction, and Terminal Apron Reconstruction Phases I, II, and III.
Daniel Gonzales, PE: Electrical Engineering Registration: NM PE #19969 | Education: BS, Electrical Engineering Technology NMSU | Memberships: Water Environment Federation, National Fire Protection Association, Intelligent Transpiration Society of New Mexico (ITS NM)	**17 years** of experience. He has completed **multiple projects at the Sunport**, including the Sunport Power System Evaluation, Sunport Emergency Power System, Solar Charging Station, Airfield Lighting Upgrade (LED), Sunport Parking Lot Lighting, Sunport GA Parking Lot Improvements, Parking Structure Lighting Evaluation, and 1 MW Solar Photovoltaic Canopies for Long-Term Parking Lot.
Ken Muller, PE: Water Resources Engineering Registration: NM PE #12548 | Education: BS, Civil Engineering, California Polytechnic University | Memberships: Water Environment Federation (WEF)	**45 years of engineering experience**, including the effluent reuse pump station at Puerto del Sol Golf Course and design of water production, fire protection, storage, distribution, and water treatment facilities for the Double Eagle II Airport, the ACE Infrastructure Development, and Orion Center Utilities Improvements.
John Quinn Pate, RA, RLA: Architecture & Landscape Architecture Registration: NM RA #1784; NM RLA #87 | Education: BA, Architecture, University of New Mexico | Memberships: American Institute of Architects (AIA), Professional Technical Advisory Board of New Mexico, American Society of Landscape Architects	**41 years of experience** in master planning and in the design of architectural and landscape architectural projects. **Projects at the Albuquerque International Sunport over the last 20 years** include the Girard Landscape Improvements, ACE Infrastructure Project, Terminal Improvements Project, Sunport Boulevard, US Customs Renovations (2), and Rental Car Facility Remodeling.
Vince Payne, AIA Registration: NM RA #5008 | Education: MA, BA, Architecture, University of New Mexico | Memberships: AIA	Over **35 years** of experience in the construction, construction management, and architecture industry. **Projects at the Albuquerque International Sunport** include the Backup Electrical Generator Replacement Project, Federal Inspection Station Study, and Terminal Improvements Project.

Jessie Lewis Education: BA, Environmental Planning and Landscape Design, University of New Mexico	**13 years** of experience in multi-use site planning, recreational park design, and lanscape restoration. Aviation department projects include GA Parking Reconstruction, Terminal Improvements, ACE Gibson, Girard Landscape Improvements, and **Double Eagle II Airport** Maintenance Facility Landscape.
Steve Morrow, PE, CFM: Drainage & SWPPP Registration: NM PE #13679; NM CFM #11-00288 | Education: BS in Civil Engineering, NMSU | Memberships: ASCE, Chi Epsilon (the Civil Engineering Honor Society), NM Flood Plain Manager's Association	**27 years of experience** as a design and construction engineer. He manages a wide variety of design projects for Molzen Corbin in both the Water Resources and Civil Departments. He has a strong background in transportation, drainage, water, sewer, and storm drain design. He was the Project Engineer on the design of ACE, and currently is project manager for the Orion Center Utilities Improvements.
Jose Lovato, SET Registration: NICET SET Level IV, No. 91686 | Education: Architectural Courses, UNM; Surveying and Computer Courses, CNM	**46 years of experience** in the design, drafting, and coordination of a diverse range of projects, including waterlines, sewer systems, street and airport paving, drainage, earthwork, and survey plans.
Andrew Reilly, PE Registration: NM PE #26915 | Education: BS in Electrical Engineering, Pennsylvania State University	**16 years** of experience in design of instrumentation and controls (I&C), renewable energy, power, specifications, pre-design analysis and reports, cost estimates, and construction coordination. Relevant project experience includes: Sunport Power Systems Study & Emergency Power System, Griegos Booster Pump Station Rehab, and Four Hills, ABCWUA
Paul Romero, PE: Mechanical Engineer Registration: NM PE #14932 | Education: BS in Mechanical Engineering, University of New Mexico | Memberships: American Society of Heating, Refrigeration and Air Conditioning Engineers; American Society of Plumbing Engineers	**25 years of experience** designing HVAC and plumbing systems for various facilities, including Kirtland Air Force Base. Currently working on Lea County Airport Terminal Expansion. Work includes mechanical design, construction cost estimation, project planning, and construction services.
Subconsultants (All have worked with Molzen Corbin on previous on-call contracts)	
Robert Hawthorne, PE, AECOM: Structural Engineering **Matt Quick, PE, Coffman Associates: Airport** Registration: NM PE #8178 | Education: BS, Civil Engineering, University of New Mexico | Memberships: Structural Engineers of America, New Mexico	**44 years of experience**. Served as structural engineer on **more than 20 projects at the Albuquerque International Sunport**, most recently the Terminal Improvement Project, VALE Parking Structure Photovoltaic Array, Car Rental Facility Solar Panel Project, Solar Charging Station, Customs Safe Structural Analysis, FAA Building Oil Storage Tank Addition, and Sunport Parking Structure. Experience at **DEII** includes the Hangar Facility, Airfield Maintenance Facility, ATCT, and Water and Sewer Extension.
Tim Byres, SET, Geo-Test, Inc.: Geotechnical Services Registration: NICET IV | Memberships: American Concrete Institute	Geo-Test has been part of the Molzen Corbin team for 32 years, working with us on virtually all of our airport projects. Mr. Byres has **over 25 years of professional experience**, and has provided geotechnical engineering services at airports around the state, including Albuquerque International Sunport and DEII Airport.
Matt Quick, PE, Coffman Associates: Airport Environmental and Airport Planning Registration: MO PE #019816; AZ PE #14452 | Education: BS, Civil Engineering, Iowa State University | Memberships: Airports Council International, International Consultants Council, AAAE	**19 years of experience** in all elements of airport planning, in particular special airport studies regarding rules and regulations, rates and charges, safety area improvements, and wildlife hazard management. Coffman's COA Aviation Department experience includes the **DEII Airport ATCT EA, the DEII Airport Environmental Assessment, the DEII eALP, the DEII RW 17-35 Closure EA, three Sunport Master Plan updates, Sunport eALP**, and the Orion Center Complex.
Jacqueline Fishman, AICP, Principal, Consensus Planning: Community Planning Registration: American Institute of Certified Planners #12838 | Education: Master of Community and Regional Planning, University of New Mexico; BFA, University of New Mexico | Memberships: New Mexico Chapter of the American Planning Association, National Recreation and Park Association, and Urban Land Institute	Over **29 years of experience** in land use, strategic, facility, and site planning; project management on complex, multi-discipline planning projects; municipal development processes and code preparation; representation at public hearings and conferences; and urban design and landscape architecture for the public and private sectors. Representative experience includes Aviation Department projects such as the Aviation Center of Excellence (ACE), Aerospace Technology Park Master Development Plan, and Sunport Master Plan.

Unique Knowledge of Key Team Members

Molzen Corbin's logevity of service to the Aviation Department has resulted in unparalleled knowledge of your facilities. This unique knowledge is illustrated in **Figure 3** below.

Mike Provine, PE

- Project Manager for Aviation Department for **over 32 years with unique and thorough knowledge of your facilities, history, and goals**
- Can be at the Aviation Department in minutes in response to any need
- Knowledge of innovative approaches to save time and money
- Seamless integration of FAA and City Requirements

Dale Salazar, CET

- Lead design technicion for Aviation Department for **over 21 years**
- Manages mapping and Airfield Guidance Sign Plan
- Managed Airport Certification Manual Graphics

Kent Freier, PE

- Worked with Aviation Department for **over 33 years on 15 successful projects,** including as Project Engineer on the Drainage Master Plan

John Quinn Pate, RA, RLA & Vince Payne, AIA

- Project Architects for Aviation Department and City on numerous projects

Robert Hawthorne, PE

- Lead Structural Engineer on **over 20 successful Aviation Department projects**, including serving on the last four on-call contracts

Geo-Test, Inc.

- Services provided to Aviation Department for **over 32 years**

Figure 3. There is no learning curve with the Molzen Corbin Airport team; we are uniquely qualified to meet all of the Aviation Department's needs.

III. Respondent Experience

Molzen Corbin has provided engineering services to the Aviation Department since 1966. **Figures 4 and 5** illustrate our major project history with the Aviation Department. We have also been involved with three updates to the Sunport's Master Plan, the DEII Runway Environmental Assessment (EA), the DEII Air Traffic Control Tower EA, and Sunport Runway 17-35 Closure EA, all with our team member Coffman Associates. In addition, we served as the engineering subconsultant on the DEII Airport Master Plan Update. Our team's relevant experience, along with our project manager's experience, is further expounded within this section.

We Will Meet Your Needs Quickly and Efficiently

This contract requires a team that is ready to assist the Aviation Department with a wide variety of projects. Molzen Corbin has a long history of successfully providing on-call services to airports and municipalities across the State, including the Aviation Department. References are provided below.

- *Santa Fe Regional Airport:* 2018–present, Mr. Mark Baca, Airport Director, (505) 955-2901
- *Moriarty Municipal Airport:* 2001–present, Mr. Bob Hudson, Airport Manager, (505) 832-5072
- *Lea County Municipal Airport:* 2011–present, Mr. Corey Needham, Assistant County Manager, (575) 605-6567

Leadership in Airport Development & On-Call Services

Many of the tasks that are assigned on a typical Aviation Department on-call engineering contract are not directly "aviation-related" but more public works-related, and we have assembled a multidiscipline team that has specific experience with the Aviation Department. Following we highlight our relevant experience, including team members who worked on the projects.

Figure 4. Molzen Corbin's key project experience at the Sunport.

Figure 5. Molzen Corbin's key project experience at Double Eagle II.

Roadway and Airfield Pavements

(Provine, Freier, Morrow, Salazar, Pate, Geo-Test)

Molzen Corbin's experience ranges from working on the Aviation Department's largest runway to rehabilitating its parking lots. Most recently, Molzen Corbin has provided planning, design, or construction-phase services on the following projects.

- ***Spirit Dr. and GA Parking Reconstruction*** – Ms. Rhonda Methvin, PE, 244-7738, 2020, $4,597,890 (Bid). Designed the reconstruction of a portion of Spirit Dr., Clark Carr Blvd., and the GA Parking Lot, including storm drainage improvements, waterline extension, landscaping, communications, and parking lot lighting.
- ***Airfield Center of Excellence (ACE) Infrastructure Development*** – Ms. Rhonda Methvin, PE, 244-7838, 2017, $6,373,466 (Bid). Designed demolition of the existing airfield pavements, roadway, sanitary sewer, water, grading and drainage, landscape and irrigation, and street lighting and storm drainage improvements for the 80-acre commercial and light industrial park located in the northern end of the Sunport campus.
- ***VALE 2012 Long Term Parking Photovoltaic Improvements*** – Mr. Sterling Mahan (ret.), 2017, $4,929,800. Reconstruction of the long-term parking lot at the Sunport included installation of a 1mV photovoltaic array on new parking canopies, new area lighting, pavement markings, and informational signage. Photovoltaic power generation, including the parking canopies, was funded by an FAA energy conservation grant that will advance the Sunport's Sustainability Program.
- ***Sunport Credit Card Lot – Long Term Parking Addition*** – Mr. Sterling Mahan (ret.), 2012, $657,600. Former rental car ready-return lots were reconstructed and converted to a new credit/debit card, self-serve parking lot using the existing asphalt pavements as improved subgrade with a new pavement section. Also included the installation of area lighting, communications, and electrical power for card readers and security cameras.
- ***Sunport Subsided Roads Repair and Girard Blvd. Rehabilitation*** – Mr. Sterling Mahan (ret.); 2008, 2010, and 2012; $530,000. Prepared construction documents for the removal of trash from under the roadway on South Yale, George Road, and Girard Blvd. Decay and consolidation of the underlying trash had caused significant subsidence in these roads. Molzen Corbin assisted with procuring construction through on-call contracts with COA.
- ***RAC Pavement Rehabilitation and Building Remodel*** – Mr. Jack Scherer (ret.), 2011, $622,450 (est).

Spirit Drive

Project included the rehabilitation of the rental car ready-return parking lots at the Sunport, replacement of shuttle bus loop, and construction of an addition to ready-return lot. Also remodeled the rental car customer counters inside the RAC building with new counter tops, new back wall, and upgrades to tenant spaces.

- ***Sunport Blvd. Rehabilitation*** – Mr. Jim Hinde (ret.), 2011, $1,250,000. Sunport Blvd. and the Terminal Loop were milled and overlaid, and an open grade friction course was laid.
- ***Atrisco Vista Blvd. Reconstruction (Double Eagle II Airport Access Rd)*** – Mr. Jim Hinde (ret.), 2015, $6,118,000. The project included the corridor study, environmental assessment, design, and construction phase services for the construction of approximately 6.5 miles of roadway connecting I-40 to DEII. The new roadway alignment was set within existing right of way and replaced the existing failing roadway. The existing roadway was maintained for traffic while the new pavement section was constructed. The roadbed for the old roadway was maintained for the addition of two lanes in the future. New bike lanes and shoulders were constructed as part of the project.

Drainage and Utilities (Provine, Freier, Muller, Morrow, Gonzales, Pate, Salazar, AECOM)

Molzen Corbin has completed over 800 drainage, water, and wastewater projects since 1960. We have the experience and in-house capabilities to plan, study, and design these systems for the Aviation Department in conjunction with the City of Albuquerque and the Albuquerque Bernalillo County Water Utility Authority. We have also planned and designed electrical and communications utilities for the Aviation Department.

- ***GA Parking Stormwater Retention Facility*** – Ms. Rhonda Methvin, PE, 244-7738, $135,000 (est).

Designed the first underground storm water retention system installation at the Sunport as part of the GA Parking Lot reconstruction. The system allows for compliance with the City's First Flush Ordinance without creating a bird attractant, which is a safety concern for airports.

- ***Sunport Drainage Outfall Improvements and Erosion Control*** – Mr. Sterling Mahan (ret.), 2009 and 2010, $235,000 (est). Designed and prepared construction plans for use by a Storm Drain Maintenance Department on-call contractor to install grading and erosion control improvements at two of the Sunport's major outfalls. Included structure installation and stilling basin construction. One location also required replacement of an energy dissipater structure that had separated from the discharge piping.
- ***Sunport and DEII Drainage Management Plans*** – Mr. Jim Hinde (ret.), 1994, 1999, and 2009, Cost N/A. Prepared the original drainage management plans in 1994 and 2009 and the update with the Rent-a-Car facility in 1999. These documents encompassed the airports' drainage areas and a portion of KAFB. Recommended improvements were constructed in the major airfield and landside projects since approved.
- ***Double Eagle II Airport Aerospace Technology Park Infrastructure*** – Mr. Sterling Mahan (ret.), 2008, $2,450,000. Storm drainage, water, and sanitary sewer facilities were extended into the Aerospace Technology Park at DEII. Project was accomplished on a fast-track schedule to meet contractual obligations to Eclipse Aviation.
- ***Double Eagle II Fiber Optic Trunk*** – Mr. Patrick Frias, 244-7791, 2008, $335,000. Trunk line was installed within the DEII Airport and the Aerospace Technology Park connecting to the main fiber optic hub downtown, to provide high-speed communication services and increase basic telephone capacity.

Planning and Property Development Services (Provine, Morrow, Coffman, Salazar, Consensus)

The Molzen Corbin team was integral in the last four Sunport and DEII Master Plan updates (1993, 2002, and 2018) and the DEII Airport Runway Extension EA (2008). The team also worked on the West Area Strategic Plan (2010), the West Escarpment Landscaping Concept Plan (2009), the Foreign Trade Zone Replat (2011), the DEII Access Road Location Study (2011), Replat of the Lands of DEII Airport (2005, 2011 and 2012), Noise Abatement Land Acquisition Documentation and Appraisals (2009), Sunport Electronic Airport Layout Plan (2010), DEII Airport Electronic Airport Layout Plan (2013), and ATP and ACE Site Development Plans (2020).


Sunport Southside Erosion Control

- ***Sunport Sustainable Master Plan Update*** – Mr. Jim Hinde (ret.), Cost N/A. Molzen Corbin has worked as the engineering subconsultant on the three Sunport master plan updates, including the current update. As part of the current Master Plan Update, we have also coordinated and updated the Capital Improvement Program (CIP) and Overall Development Objective (ODO) for submittal by the Aviation Department to FAA annually since 2007.
- ***Double Eagle II Airport Master Plan Update*** (as engineering subconsultant) – Mr. Jim Hinde (ret.), Ongoing, Cost N/A. Molzen Corbin is serving as an engineering sub-consultant on the Double Eagle II Airport Master Plan Update currently entering its final phase. Molzen Corbin prepared the airport layout plans, the CIP update, and ODOs for submittal to FAA by the Aviation Department for the project.
- ***Airfield Center of Excellence (ACE) Site Plan for Development*** – Ms. Rhonda Methvin, PE, 244-7738, 2016, Cost N/A. The site plan for development consisted of the planning document, layout and boundaries, conceptual lot geometry, traffic impact study, and design standards for the development of an 80-acre commercial and light industrial business park located on Aviation Department property formerly used as a runway. The project also included approval for access to the site from Gibson Blvd., including a right-in/right-out and left-in traffic movements from the Mid-Rio Grande Council of Government's Access Control Committee. Part of gaining access from Gibson involved coordination and collaboration with the Greater Albuquerque Bicycle Advisory Committee (GABAC).
- ***Double Eagle II Airport Aerospace Technology Center (ATP) Site Plan for Development*** – Prepared the ATP development plan and infrastructure improvements for a 100 acre technology park at the Double Eagle II Airport.

Structural, Electrical, and Mechanical Engineering Services (Provine, Gonzales, Romero, AECOM)

Our in-house electrical and mechanical department has designed components for airports across the State. Recent relevant experience includes the following projects.

- ***US Customs Federal Inspection Station (FIS) Upgrade*** – Ms. Nyika Allen, 244-7899, 2018, $641,000. Designed and performed construction administration for this accelerated project to bring the Sunport's FIS to federal standards, allowing the Sunport to accept international commercial service flights in 2018. Molzen Corbin worked with the Aviation Department to locate portable buildings to incorporate into the existing FIS; design the project and site, MEP, architectural and structural designs; assist in negotiations with a construction contractor through an alternative construction procurement process (CES) and to complete the design as the contractor mobilized; and starting construction. The project was completed within schedule and budget, and the Sunport was able to accept international flights.
- ***Lea County Airport Terminal Expansion*** – Mr. Corey Needham, (575) 391-2934, 2021, ~$350,000 (Mechanical Construction Estimate). Molzen Corbin's mechanical department provided the design, construction plans, specifications, and construction services for an 11,000 square foot Airport Terminal Facility in which 3,000 square feet was renovated space. Mechanical systems designed in this project included package roof top units, ductwork, natural gas piping, domestic water, sewer, vent, storm drain, and condensate drains. Fire sprinkler performance base specifications were also included on this project. Sustainability features included low flow plumbing fixtures and energy efficient air conditioning units.
- ***RON Preconditioned Air and Remote Power*** – Ms. Jane Lucero, ME, 244-7858, 2016, $1,467,559. This sustainability project included the design and installation of three remote power sources to be used by airlines and air cargo companies to power aircraft that remain overnight (RON). The remote power sources will also be used to power preconditioned air units for RON aircraft. Connections to PNM for power, directional drilling, and insertion of aircraft rated power boxes and outlets are included in the improvements, as well as trailer mounted portable preconditioned air units. This is an FAA funded project, and Molzen Corbin assisted the Aviation Department with grant applications, reimbursements, and certifications.

The proposed team also includes Mr. Robert Hawthorne, PE, who has served as the structural engineer on the past four on-call architectural or engineering services contracts with the Aviation Department. Mr. Hawthorne's local experience dates to the Terminal Renovations completed in the 1980s. His recent Aviation Department experience follows.

- ***Sunport Terminal Low Rider Exhibit*** – Ms. Nyika Allen, 244-7899 2019, Cost N/A. The Terminal 2nd and 3rd level floor structural capacities were analyzed and recommendations made to accommodate an art exhibit featuring low rider automobiles and motorcycles. Access routes and static display support recommendations were made from this analysis.
- ***Air Cargo Slab Replacement, 2020*** – Ms. Rhonda Methvin, PE, 244-7738, 2020, $126,200. Removal and replacement of interior slab, repairs to the truck docks and concrete joints were designed and construction services provided. Construction phasing developed to maintain runway operations.
- ***VALE PV Array, 2010–2011*** – Mr. Jack Scherer (ret.), 2010–2011, Cost N/A. Prepared structural design criteria for use by suppliers in proposals and

*The Molzen Corbin Team designed **and is overseeing construction of** the ACE project located within the Albuquerque Sunport property. The ACE project is envisioned as an emerging business hub, promoting collaboration between Albuquerque's R&D community and the global marketplace.*

design of photovoltaic equipment. Developed limitations for modifications that could be used without compromising structural limits, parking capacities, and aesthetics on the top level of the structure.

Additional On-Call Services

On our past on-call contracts with the Aviation Department, Molzen Corbin has also provided the services listed below:

- *Disadvantaged Business Enterprise Program Updates and Goals* – Mr. David Trembath, 244-7716
- *Aviation CIP and Overall Development Goals Updates for FAA, and NMDOT Aviation Funding Programs* – Ms. Jane Lucero, ME, 244-7858
- *Airfield Guidance Sign Plan Updates* – Ms. Jane Lucero, ME, 244-7858
- *Miscellaneous Conceptual Project Cost Estimates (Pave Sunport Infields for Rodent Control, Remove Aircraft Arresting Barriers, PFC Cost Estimates, Economic Development Project Layouts and Costs)* – Ms. Rhonda Methvin, PE, 244-7838, and Ms. Jane Lucero, ME, 244-7858

Project Manager's Experience with the City within the Past Five Years

Mr. Mike Provine, PE, has developed a strong working relationship with the City and offers unparalleled real-world knowledge and experience with the airside and landside pavements, utilities, and facilities at Double Eagle II and the Albuquerque International Sunport. **Figure 6** below is a partial listing of his experience between 2016-2021. **Mr. Provine has been assigned to respond to any and all of the Aviation Department's needs with his full attention at any time.**

Project	Year	Sustainability	Pavement & Drainage	Utilities	Mech/Elec/Structural	Landfill	EPC/DRB/DRC/Building Permit	Funding Agency Grant	Architectural/Landscape Architecture	Construction Procurement Process
Upper Roadway Beam Repair	2016		●		●					Emergency/Change Order
Snow Barn (sub)	2017		●	●		●	●	●		Bid
Passenger Facilities Charge (PFC – cost estimate)	2017		●	●				●		N/A – Engineering Support for Aviation
Sunport Sustainable Master Plan Update (sub)	2018	●	●	●		●	●	●		N/A – Engineering Support for Master Plan
Double Eagle II Airport Master Plan Update (sub)	2018	●	●	●			●	●		N/A – Engineering Support for Master Plan
Double Eagle II Airport Hangar (sub)	2018	●	●	●			●		●	Bid
Spirit Dr. and GA Parking Lot Reconstruction	2018 (ongoing)	●	●	●		●	●		●	Bid
Terminal Improvements Project (TIP–sub)	2018		●	●					●	Bid
ACE Infrastructure Improvements (4 phases)	2018	●	●	●			●		●	Bid
Customs FIS Upgrade	2019		●	●	●		●		●	On-Call (CES)
Taxiway F6 Construction	2019		●	●				●		Bid
Taxiway E Reconstruction Phase A & B	2018-2020		●	●				●		Bid
Sunport Parking Entrance Evaluation and Report	2019		●							Traffic Study for additional entrance into Terminal Parking Lots
Sunport Runway 8 and 12 Realignment Safety Risk Mitigation	2019		●					●		N/A – Airfield geometry realignment safety/risk mitigation study
Double Eagle II Airport Perimeter Security Fence	2020							●	●	Bid
Matheson Air Cargo Slab Repair	2020				●		●			On-Call (COA)
Taxiway G1 Relocation and Taxiway C Fillet Reconstruction	2021		●	●				●		Bid
ZEV Bus Charging Station	2021	●	●	●	●			●	●	Bid
West Terminal Apron Reconstruction	2021		●	●				●		AFB July 2021
Air Cargo Apron Extension	2021		●	●				●		AFB July 2021
Orion Center Utilities/FAA Cordination/Exterior Electrical (sub)	On-Going		●	●	●		●			In Design

Figure 6. Project Manager's recent support for the Aviation Department.

IV. Technical Approach

Respondent's Understanding of the Project Scope

Molzen Corbin has successfully led or been on the team for four previous engineering on-call contracts with the Aviation Department. These contracts require an in-depth knowledge of the two Airports, the Sunport and Double Eagle II. The services required under an on-call contract may vary significantly in the type of project, from drainage to solar power and other sustainability installations.

Some projects are a response to an emergency, such as the Upper Roadway Beam Repair. That project was in response to large pieces of the upper roadway support beams spalling and falling onto the lower roadway. Molzen Corbin and AECOM quickly responded to a call from the Aviation Department on a Saturday to assess the problem and to get the repairs detailed and completed quickly while traffic was maintained.

Regardless of the project, all require dedicated service and attention to the unique needs of the Aviation Department and the continuous operation of its two airports. Many of the projects will not have a defined life, such as assisting in updating the Disadvantaged Business Enterprise program and goals annually as required by FAA. Success on this on-call contract requires local experience, a readily accessible team, a project manager experienced with the Aviation Department and City's procedures, FAA requirements for development within or adjacent to the airports' property, and a commitment to rapid, responsive service. Teamwork is key.

Plan to Perform the Services

The projects anticipated under this contract will be small- to medium-size rehabilitation or renovation projects. Regardless of size, Molzen Corbin will complete each task to the same standard of quality that we use for major projects such as the reconstruction of the Airfield Pavements.

Each task assigned under this contract will require proactive, ongoing coordination and communication to meet project schedules and budgetary constraints. We will coordinate each project with Aviation Department staff, airline station managers, tenants, other CoA departments, and the FAA. We will also schedule regular coordination meetings, which have proven successful in expediting projects in the past. We provide weekly project updates to the Aviation Department.

Process for Providing Services

Mr. Mike Provine, PE, our proposed Project Manager, will serve as the point of contact for all tasks assigned under this contract. **Mr. Provine has served successfully in this role for Aviation Department contracts for over 32 years.** In the following paragraphs, we describe our process for providing services under an on-call engineering services contract. Molzen Corbin has the local depth of staff, expertise, and experience that has been serving the Aviation Department in the past to implement this process on multiple projects simultaneously. He is virtually assigned full-time to the Aviation Department.

Step One: Mobilization

When a task is requested by the Aviation Department, Mr. Provine will either complete it himself or assign the tasks to the appropriate team leaders. These leaders will mobilize the appropriate technical team and schedule the work immediately. On one previous task order, Molzen Corbin prepared an analysis of the terminal power system to determine what upgrades and modifications would be necessary to eliminate system failures during a primary power outage that could cripple the operations of the Sunport. This task order was led by Daniel Gonzales, PE of our electrical engineering department. There was extensive coordination with PNM for the replacement of much of their aging infrastructure on the primary power service.

Step Two: Identify Stakeholders

For any project, it is important to identify affected parties, or stakeholders, as soon as possible. For instance, a recent project involved replacing a slab inside the Air Cargo Center. The stakeholders included the tenant, the DMD on-call construction contract manager, Airfield Operations, and the Airport Security Coordinator.

The air cargo forwarding tenant and the US Postal Service would be affected by the construction scheduling. The project was designed with phasing that allowed work during the "off-hours" of the tenant to allow freight processing in the facility while the repairs were made. Special access considerations were required because of the facility's operation in the secure area of the airfield.

Step Three: Scoping Meeting

A scoping meeting will be held with the design team, appropriate stakeholders, and the Aviation Department project manager. Mr. Provine will organize and conduct this meeting that will be used to develop the project scope from the goals and objectives identified. For example, for a pavement rehabilitation project, a decision must be made whether to analyze the remaining life expectancy of the pavement, or whether it is clear that the pavement just requires crack seal and a surface seal.

This meeting is also an ideal time to identify any special coordination needed for the project. An analysis of the pavement section on Sunport Blvd. that entails more than short visual inspections may require that the field work is performed during slow traffic periods, typically between 12:00 am and 4:30 am. Work during these hours requires coordination with the Aviation Police, the rental car shuttle bus operator, and the Aviation public information officer. The project may require special barricading and portable light stands.

Step Four: Develop Task Order

A task order will be prepared and submitted to the Aviation Department. The task order will include a detailed project scope, an estimated manhour and task schedule, the proposed fee, and a proposed project schedule. Molzen Corbin may have invested considerable effort on the project prior to the task order submittal in steps 1–3 above, but that is necessary to provide the most accurate and complete scope of work and corresponding fee proposal to the Aviation Department. It is our philosophy that once our fee proposal has been developed and submitted, it should not change unless the Aviation Department proposes a significant change in the project scope.

Step Five: Design and Quality Control

Molzen Corbin will perform quality control at key milestones and at final design. Mr. Kent Freier, PE, will coordinate this effort, typically on civil projects. Other senior staff at Molzen Corbin will be assigned this role depending on the type of work performed. Mr. Daniel Gonzales, PE, our lead electrical engineer, will lead the technical quality control efforts on electrical engineering work, for instance.

Step Six: Preparation of Contract Documents

Airside and landside construction improvement projects will follow the City's design, bid, and construction format, typically. If the project is on the airfield, FAA design criteria may be utilized so that future funding will not be jeopardized. Inclusion of supplemental special provisions specific to working at the City's Airports for requirements on safety and access for instance, will be developed and included in the contract documents. Special liability insurance coverage is necessary for construction at the Sunport, and supplemental special provisions must be written to specify coverage limits and security requirements. Coordination with the City Department of Municipal Development (DMD) contract management staff will occur to ensure that non-standard language required by the project does not conflict with the standard City contract clauses. Submittals for review and comment to the City and affected agencies such as Kirtland Air Force Base will be programmed in the project schedule during the scoping meeting. Our project manager has prepared contract documents with project-specific language required by FAA, KAFB, and other agencies within the City's standard boilerplate for over 32 years and understands the time that the DMD staff needs for review on these documents.

There are cases where alternative methods of procuring construction services may be appropriate. Many times, on an on-call engineering services contract, the project schedule dictates use of an on-call construction contractor that has been selected for various types of work on a competitively-bid process. This was the case in the Federal Inspection Station (FIS) upgrade project. The project schedule would not allow for a typical design, bid, build process. The Aviation Department was faced with bringing the existing FIS to code and Federal standards within several months in order for international air service to be accepted at the Sunport. The construction procurement was through the Cooperative Education Service (CES), which allowed several construction contractors to respond to an initial scope of work based on the CES task order construction agreement. As a public agency competetively bid on-call contract, the City was able to utilize the on-call construction contract to procure construction services, saving several months necessary of a typical bid process. The design was completed with an accelerated schedule, and the project was completed prior to the Owner's deadline.

Step Seven: Bidding or Procuring Construction Services

For standard design/bid projects, we will coordinate the bid advertisement with the City, including providing an electronic copy of the ad for use by CIP for publishing. Prior to the advertisement for bids being published, Mr. Provine will coordinate the review of the contract documents with DMD and the City Engineer for sign-off. This also includes submitting the final engineer's estimate for concurrence to the Aviation Department project manager and coordinating the requisition of funds from the Aviation Department for the bid advertisement. A pre-bid conference is typically required due to the unique requirements

of working at the City's Airports. Molzen Corbin will conduct the meeting. All responses to requests for information and clarification requests submitted by bidders during the advertisement period will be coordinated by Molzen Corbin. Addenda will be prepared and coordinated by Molzen Corbin and issued through the City's standard process.

After the bid opening, the project team will prepare a bid tabulation, prepare a recommendation of award to the City, and assist the City in award of the project, including the preparation of contract documents and execution of the agreement. This step has changed recently to include a review of the Bidder's and subcontractor's standing in the System for Award Management (SAM) database; however, Molzen Corbin has prepared several recent recommendations of award for City projects and is familiar with this database.

Step Eight: Construction

For design projects, construction is the last major step in realizing the project objectives. The project team holds on-site progress and coordination meetings, reviews construction submittals, provides clarifications on the design, issues change orders if required, and reviews and recommends payment applications. At substantial completion, we will prepare record drawings, conduct a project walkthrough, and prepare a punchlist for the contractor's work. Closeout paperwork and final inspections will be coordinated. Record drawings in AutoCAD and PDF format are required by the Aviation Department and will be prepared reflecting the work completed. Traffic circulation and hydrology certifications will be prepared and submitted to the City's Planning Department as required. Additionally, if warranted by the project and requested by the Aviation Department, full- or part-time construction observation will be assigned.

Step Nine: Project Closeout

After the construction or study is completed, the project does not typically disappear. Molzen Corbin has always been available to assist the Aviation Department in 11-month warranty inspections, with information requested for audits, with providing additional copies of record drawings, and in providing information on past projects, sometimes many years beyond project completion.

An example of Molzen Corbin's involvement in a project many years after completion of construction, the State Engineer's Office contacted the Aviation Department for an inspection of a 78-acre-ft storm water detention facility constructed under a taxiway project in 1993. The detention facility was constructed as a part of a major storm drainage improvement effort for the airfield. The drainage basin contributing to the facility extended into KAFB, and the detention pond actually sits on KAFB property. The Aviation Department agreed to fund the construction of the facility as part of a lease agreement with the U.S. Air Force. Maintenance of the facility would be KAFB's responsibility, however. The State Engineer's Office requested written documentation of the maintenance responsibility. Mr. Provine assisted the Aviation Department in the research on the maintenance responsibilities for the facility. Mr. Provine's knowledge of the issue stemmed from his involvement as project manager on the original project, and he was able to prepare a memo for the Aviation Department that cited the City's lease with the Air Force and referenced the lease exhibit showing KAFB ownership, control of facility's site, and language in the lease relieving the Aviation Department of the maintenance responsibility.

Specialized Problem Solving

Molzen Corbin has unique knowledge of the Sunport and DEII Airport which allows us to anticipate and overcome project challenges, some of which are described below.

Access

The process for procuring access badges for the Aviation Department facilities is ever-changing due to requirements of the Transportation Security Administration. The Molzen Corbin team currently has access badges, including key team members. Geo-Test and AECOM representatives are currently badged through the Aviation Department's Access Control Office as well. We are aware of the restrictions and responsibilities that come with working at the City's Airports. The cost of obtaining an access badge is currently $255 per employee. That is a significant cost, and while the Aviation Department may not see the charge directly, there is a cost included in overhead that will be reflected in rates. Molzen Corbin has maintained largely the same team over our many years of working with the Aviation Department and has maintained their access badges, eliminating the lead time and costs necessary to acquiring access to Aviation Department properties.

Additionally, Molzen Corbin has developed specific contract provisions for the Aviation contract documents that ensure bidders are informed of the access control requirements and costs. This language is updated with every project to capture the latest requirements and changes to the access control system, whether placed on the Aviation Department by federal mandates or by needs of the Aviation Department.

Knowledge and Experience at the Aviation Department Facilities

In a recent example of Molzen Corbin's involvement in a project many years after completion of construction, the fiber optic line carrier connecting Double Eagle II Airport with the main hub located in downtown Albuquerque notified the Aviation Department that they would be terminating that service in several months' time. Mr. Provine was able to advise the Aviation Department IT staff on, and verify in the field, the alignment of a conduit path that was installed in 2006 as part of the DEII Airport Water and Sewer Infrastructure project. As a result, the Aviation Department was able to quickly, and with minimal infrastructure improvement costs, maintain the high-speed data connections necessary to facilities at DEII, including the Air Traffic Control Tower.

Accurate Cost Estimates

Molzen Corbin has over 30 years of cost data from projects with the Aviation Department. These projects include grading and drainage, pavement rehabilitation and improvements, electrical upgrade and solar installations, utility extensions and improvements, landfill excavation, and property development. While much of the cost data is dated, it provides an insight into the cost factors that apply to construction work at the two Airports. Recent increases in construction costs attributed to supply and labor supply contractions due to the impacts of COVID-19 have been tracked as part of this data. **Molzen Corbin works dilligently to stay on top of recent events that can impact project budgets so the Aviation Department can adjust and evaluate their priorities.**

Our experience and database of project information allows us to produce accurate project costs at conceptual, preliminary, and final stages. This allows the Aviation Department to develop their budgets appropriately and without requiring fund transfers in the middle of project completion.

Molzen Corbin has supported the Aviation Department in:

- preparing project cost estimates for their Passenger Facilities Charge Application and grant application submittals to the FAA and NMDOT Aviation;
- preparing and updating the Aviation Department Capital Improvement Program (CIP) required by FAA for funding programming;
- and preparing the FAA-required annual Overall Development Objective (ODO) documentation

All of these documents require development of accurate project cost estimates that are used for programming project funding vital to both Airports' capital improvement programs.

Continuous Improvement

We measure our performance with our clients. Our senior management have conducted periodic reviews with our clients and funding agencies to see how we are performing. This is done in an informal arena without our project manager's presence, allowing for a candid discussion of strengths and opportunities for improvement. We also update the Aviation Director monthly on all of our open projects so she is aware of progress and issues.

The Molzen Corbin team does not need to overcome a learning curve or spend extensive time studying your systems; we have the knowledge now to develop high-quality projects that continue to meet the Aviation Department's requirements and goals, regardless of the challenges presented by the projects.

The Molzen Corbin Team has worked successfully on projects with the Aviation Department for decades, including Spirit Drive Improvements.

V. Cost Control

Cost Control of the Design Process

Molzen Corbin has extensive experience providing cost-effective on-call services to the Albuquerque Sunport and the Double Eagle II Airport. Task orders are issued on an as-needed basis, with lump-sum design fees typically based on a conceptual scope of work. Our staff understands the City's contracting process and your project budgets, and we know that overruns on task orders are a serious concern. Our project management system allows us to draw from our experience with the Aviation Department to develop a complete scope of work and a fair fee proposal.

We have sustained a strong track record on task order projects. Once the scope and fee are established, we are committed to producing the project design, regardless of internal costs. We believe that our successful history with the Aviation Department is a testament to our project management and cost control processes.

Molzen Corbin uses cost accounting software that enables detailed tracking of hours and expenses. Once a task order is issued, the project manager monitors the job costs on a monthly basis, tracking our percent complete based on our estimate of how much of the work is actually completed, versus actual percent complete based on expenses incurred over the total fee. If the project manager sees that the work completed is lagging behind the actual expenses, then more resources are assigned so that we can finish on time and on budget.

Audits typically occur only after a project has been completed. Molzen Corbin has always provided assistance, supporting documentation, and our knowledge of the project for audits, many times several years after the closeout has occurred. This is provided promptly and at no cost, because our project management and documentation system allows for quick and efficient access to our project archives.

Cost Control of the Construction Cost

Molzen Corbin begins a project with a conceptual cost estimate based on the initial scoping meeting with the Aviation Department. After a task order is initiated and the scope is defined, a detailed project cost estimate is developed including not just the design and construction costs, but other project costs such as landfill excavation permit costs. The cost estimate is updated as needed as the project develops.

Most recently, the cost of labor and construction commodities have required close watch so that the Aviation Department can determine budget impacts before bids are received.

Our project manager is local and involved in all aspects of the project development and design and serves in a "hands-on" role during the construction phase. Because the project manager is responsible for the original estimate, he knows how quantities were defined and can most effectively manage individual line items to ensure that the final project cost remains within budget.

Molzen Corbin's philosophy is to deliver projects within budget, both in design and in construction. We prefer to give funds back to the funding agency, rather than asking for a change order to increase the project budget.

Cost Estimating Techniques

Most engineering firms use databases (*e.g.*,COA average unit price list or NMDOT average unit price list) and publications (*e.g.,* Means and Dodge) to assist in cost estimating. Molzen Corbin uses all of these useful tools as well.

However, Molzen Corbin is unique in that we have decades of real-world data from projects of all sizes at the Sunport and Double Eagle II airports. Our archived bid tabulations represent actual costs, not generalized or averaged data. The key to accurate estimating for Sunport and Double Eagle II projects is knowing what "atypical" requirements will affect construction costs. These requirements follow.

- **Badging Requirements:** Applying for a badge to work within the Sunport costs $255. Additionally, attendance at a one-hour training class is required to obtain a badge and to drive within the fence. An applicant cannot work at the Airport until the badge itself has been granted.
- **Air Traffic:** Operational continuity is essential, which means that construction crews might have to vacate a construction area each day in order to accommodate air traffic.
- **Gate Access:** All contractor employees must be

searched at the AoA access gates before entry, or the contractor must establish a specific gate and provide a guard to enable entry. There is a wait at the gates typically which affects effective work time.

- **Coordination Meetings:** Weekly meetings might be necessary to coordinate construction activities with Air Traffic Control, airlines, and Aviation Department staff. Special phasing may result from needs of the tenants and the FAA.
- **Landfills:** Landfill sites exist within the Sunport property. Special requirements for designing improvements and constructing near or within the landfills can impact schedules and costs.

All of these issues affect "normal" construction costs because they add to a contractor cost burden. Molzen Corbin knows this very well and adjusts cost estimates accordingly.

Another advantage that the Molzen Corbin team offers to the City in cost estimating is that our team members serve as Aviation Department "historians." **Mr. Mike Provine, PE, Mr. Kent Freier, PE, and Mr. Robert Hawthorne, PE, have each worked with the Aviation Department for well over two decades and their knowledge of past projects or activities enables accurate cost estimating.** For example, our project team is very aware of landfill sites on Sunport property. We know when a project will occur in the landfill areas, and additional costs might result. Our staff can then communicate these costs to the City. Our staff knows the existing pavement sections, the design reasons behind those sections, and how to accommodate those original designs in projects that may arise in this contract.

Molzen Corbin has a rich historical knowledge of work for the Aviation Department that translates to cost-saving, accurate, and efficient support for the City of Albuquerque.

Our staff has also built strong relationships with many of the stakeholders involved in Aviation Department projects. These include the FAA, Airport Administration, Airport Operations, Airport Finance, Airport Maintenance, COA Planning and Environmental Health, Airline Managers, Rental Car Managers, Wildlife Managers, and neighboring KAFB Civil Engineering. Further, we understand how these stakeholders' requirements might affect construction costs.

The recent relocation of the Paseo del Volcan (now renamed Atrisco Vista) exemplifies the benefits of Molzen Corbin's experience in developing accurate cost estimates. When the City ordered the entrance into the Airport be realigned and straightened to remove an unsafe series of curves, our staff immediately met with FAA for this emergency project. The proposed road alignment passed between two approach lighting towers operated by FAA. Because of our on-site meeting with the appropriate staff, we were able to get the alignment approved and the project completed without impact to the FAA.

We also monitor construction pricing from other projects to stay current on trends and spikes and drops that have become common in the industry. For example, oil prices not only affect the cost of asphalt paving, but also affect transportation, equipment operation, and PVC pipe.

Molzen Corbin will not use outside cost estimating consultants in this contract. We firmly believe that we have a much better handle on construction costs and factors affecting construction costs at the Sunport and Double Eagle II Airports due to our history at these two Airports and our intimate knowledge of factors affecting those costs.

Comparison of Bid Award to Cost Estimate

Please see **Figure 7** below.

Project	Month and Year Bid	No. of Bids	Final Cost Estimate	Bid Award Amount
Barelas Storm Pump Station No. 32 Short Term Improvements	July 2021	1	$1,729,559.88	$1,643,410.90
Girard Landscape Improvements	Jun. 2019	2	$2,236,887	$2,147,203
Double Eagle II Airport Perimeter Security Fence	May 2020	3	$596,009	$481,338
Sunport Spirit Dr. and GA Parking Reconstruction	Oct. 2020	5	$5,303,708	$4,597,871

Figure 7. Molzen Corbin is accustomed to delivering high-quality projects within strict budget constraints.

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 On-Call Engineering for the Albuquerque International Sunport and Double Eagle II Airport

Project Number 7540.00

Date 07/14/2021 Firm Name Molzen Corbin

Signature K.W.E.

Title Chief Executive Officer

STATE OF NEW MEXICO)

) ss

COUNTY OF BERNALILLO)

NOTE: We have provided a copy of our general and professional liability insurance coverage in lieu of the notary stamp, as per the RFP.

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

_____

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

_____ day of _____ , 20____

_____

(Notary Public)

My commision expires: _____

Pay Equity Reporting Form

City of Albuquerque www.cabq.gov | Bernalillo County www.bernco.gov | Water Authority www.abcwua.org

Company Details

Company Name	Molzen-Corbin & Associates, Inc.
Phone	(505) 242-5700
Email Address	rrobeda@molzencorbin.com

Mailing Address	2701 Miles Road SE Albuquerque, NM 87106
NM Employees?	yes

Job Category		No. Females	No. Males	Gap (Abs. %)
1.1	Exec/Senior Level Officials/Mgrs	0	10	N/A
1.2	First/Mid Level Officials/Mgrs	0	0	N/A
2	Professionals	7	22	25.83%
3	Technicians	7	23	15.51%
4	Sales Workers	0	0	N/A
5	Office and Admin. Support	12	4	22.38%
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	26	59	20.97%

Total # of Females (all categories)	26	Total # of Males (all categories)	59
Total # Female Only Job Categories	0	Total # Male Only Job Categories	1
Total # Part Time Females	9	Total # Part Time Males	14
Female % Workforce	30.59%	Male % of Workforce	69.41%
Total # Employees	85	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.

Robert P Robeda, Chief Administrative Officer	*Robert P Robeda*	May 17, 2021
Name and Title	Signature	Date Submitted

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

☐ **Certified - Overall Gap is 0%** ☑ **Uncertified - Overall Gap is more than 0%**

Gender Pay Equity Representative

MOLZ&AS-01 EHUGHES

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 12/23/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME: RJ Dean & Associates	
Professional Liability Insurers, Inc. 6101 Moon Street NE Suite 1000 Albuquerque, NM 87111	PHONE (A/C, No, Ext): (505) 822-8114	FAX (A/C, No): (505) 822-0341
	E-MAIL ADDRESS: ehughes@cressinsurance.com	
	INSURER(S) AFFORDING COVERAGE	NAIC #
	INSURER A : Donegal Insurance Company	13692
INSURED	INSURER B : NM Premier Insurance Co	13675
Molzen-Corbin & Associates Inc 2701 Miles Road SE Albuquerque, NM 87106	INSURER C : AXA Insurance Company	33022
	INSURER D :	
	INSURER E :	
	INSURER F :	

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 PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS		
A	X COMMERCIAL GENERAL LIABILITY						EACH OCCURRENCE	$	1,000,000
	CLAIMS-MADE X OCCUR			BSD9257861	12/31/2020	12/31/2021	DAMAGE TO RENTED PREMISES (Ea occurrence)	$	500,000
							MED EXP (Any one person)	$	10,000
							PERSONAL & ADV INJURY	$	1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$	2,000,000
	POLICY X PRO-JECT LOC						PRODUCTS - COMP/OP AGG	$	2,000,000
	OTHER:							$	
A	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	$	1,000,000
	X ANY AUTO			CA9257861	12/31/2020	12/31/2021	BODILY INJURY (Per person)	$	
	OWNED AUTOS ONLY / SCHEDULED AUTOS						BODILY INJURY (Per accident)	$	
	HIRED AUTOS ONLY / NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$	
								$	
A	X UMBRELLA LIAB X OCCUR						EACH OCCURRENCE	$	4,000,000
	EXCESS LIAB CLAIMS-MADE			CXL9257861	12/31/2020	12/31/2021	AGGREGATE	$	4,000,000
	DED X RETENTION $ 10,000							$	
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y/N						X PER STATUTE OTH-ER		
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	N/A		64411.113	1/1/2021	1/1/2022	E.L. EACH ACCIDENT	$	1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$	1,000,000
							E.L. DISEASE - POLICY LIMIT	$	1,000,000
C	Professional Liab			DPR9970912	12/31/2020	12/31/2021	Each Claim		2,000,000
C	Professional Liab			DPR9970912	12/31/2020	12/31/2021	Aggregate		6,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER

FOR PROPOSAL ONLY

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.

AUTHORIZED REPRESENTATIVE

James Lyons

WHPacific
AN NV5 COMPANY

CITY OF ALBUQUERQUE

ON-CALL ENGINEERING SERVICES

FOR THE ALBUQUERQUE INTERNATIONAL SUNPORT AND THE DOUBLE EAGLE II AIRPORT

Project No. 7540.00 | July 14, 2021

July 14, 2021

Selection Advisory Committee Office
Capital Implementation Program (CIP) Division Office
One Civic Plaza, 7th Floor, Room 7057
Albuquerque/Bernalillo County Government Center
Albuquerque, NM 87102

RE: On-Call Engineering for the Albuquerque International Sunport and the Double Eagle II Airport

Dear Ms. Methvin, and Members of the Selection Committee,

Keeping the Albuquerque International Sunport facilities up-to-date and functioning at peak performance has been an honor for WHPacific for over 30 years. We welcome the opportunity to continue working with the City of Albuquerque Aviation Department on future projects, and hope that you will consider the following when reviewing our proposal:

The proposed WHPacific team has successfully partnered with the City of Albuquerque Aviation Department on numerous design and construction projects for well over 15 years. These projects have included the 2004 Terminal Optimization Study, in which our team documented the Sunport's infrastructure and most, if not all, of it's engineering systems, as well as the West Airport Improvements On-Call projects, which expanded our team's knowledge of Sunport infrastructure and operations. In addition, our MEP team has been involved in some of the Sunport's most recent projects, including the RAC Site Improvements and PV Array, Pet Relief Area, and Administration Suite Improvements.

Our team of local professionals appreciate every opportunity to work within and better our community. In addition to previous City of Albuquerque Aviation experience, WHPacific has also been providing engineering and architectural services through recent City contracts for renovations and new construction projects city-wide. This relationship is important to us, and we are committed to providing the City of Albuquerque and its Aviation Department with responsive and timely solutions that specifically meet budget, schedule, and program requirements.

Our multidisciplinary firm of in-house, local engineers is well qualified to respond to your need for on-call engineering services. Our key experience covers all phases of design including planning, programming, schematic design, construction documents, permitting, construction administration, and commissioning.

The WHPacific team looks forward to continuing its strong relationship with the City of Albuquerque and will explicitly comply with all codes, regulations, facilities standards, requirements, and laws that apply to this project. We appreciate your consideration of our qualifications and look forward to the opportunity to continue to deliver exceptional services to the City.

Respectfully,
WHPacific, Inc., an NV5 Company

Pamela Salazar-Lentini, PE
Director of Facilities
Direct: 505.830.8752| Fax: 505.242.4845
Email: Pam.Lentini@NV5.com

A DECADES-LONG HISTORY OF SERVING THE ALBUQUERQUE INTERNATIONAL SUNPORT

2020 - 2024

Sunport & Double Eagle Airport On Call
Rental Car Center (RAC) PV and pavement assessment report; AIS RAC Service Centers fire suppression assessment; west campus fire suppression assessment.

2016 - 2019

Mechanical, Electrical and Plumbing (MEP) Design On Call
WHPacific is currently providing MEP design for various projects at the Sunport as a subconsultant to FBT Architects.

2013 - 2021

West Airport Improvements On Call
Renovations of various spaces, new Snow Removal Equipment building, various demolition projects, new fiber infrastructure for shared tenant services phone system.

2004 - 2012

Terminal Optimization On Call
Strategic terminal additions, taxiway and apron replacement, MEP/fire alarm upgrades, coordination of Food & Beverage RFP and facility improvements for new security checkpoint, programming/design of new peripheral buildings, existing mechanical system analysis, FIDS/BIDS/GIDS modernization, paging system and chiller and boiler plant upgrades.

1985 - 2002

Miscellaneous On Call Projects
Airport master plan, drainage master plan, new 4-story short-term parking structure, vehicle maintenance and storage building, new air cargo building, terminal building East Concourse expansion, Yale bridge, new consolidated rental car facility.

1979

WHPacific staff begin a decades-long relationship with the City of Albuquerque and Albuquerque International Sunport.

Dream of Flight (Lincoln Fox, 1989) Photo Courtesy: Luigi Novi

WHPacific has been providing design services for the Sunport since 1979, keeping the facility functioning at peak performance through both major and minor renovations and additions.

Number of employees, technical discipline, registration, and registration number.

The WHPacific team is comprised of local professionals that live and work in Albuquerque, and that have collaborated with the City of Albuquerque on numerous Albuquerque International Sunport projects for decades. WHPacific became an NV5 company in July 2019, giving our local experts the added expertise of over 2,000 engineering and technical consulting staff world wide. NV5 has provided air-side and land-side services to aviation projects around the globe, including 18 of the top 20 busiest U.S. airports. Our combined capabilities bring effective solutions to complex issues.

WHPacific's 75-year history of providing engineering services in New Mexico began with the 1944 founding of Gordon Herkenhoff and Associates. As BPLW, our team supported the Sunport through on-call contracts from 1979-2005 and completed one of the most significant remodels in the Sunport's history. Our Albuquerque office has over 40 employees providing services in architecture; mechanical, electrical, structural, and civil engineering; and construction inspection/management. The following Albuquerque employees will be primarily responsible for work on this project:

WHPacific, Inc.
An NV5 Company
6501 Americas Pkwy NE, Ste. 400
Albuquerque, NM 87110
505.510.0850

Pamela Lentini, PM/Mechanical Engineer NM Rg. #14255	**Adam Miera,** Transportation Engineer NM Rg. #21486
Phillip Sitges, Electrical Engineer NM Rg. #22284	**Andrew Gallegos,** Transportation Engineer NM Rg. #18818
Bill Foster, Electrical Engineer NM Rg. #16439	**Ralph Abeyta,** Geotechnical Engineer NM Rg. #10852
Minxuan (Jacky) Lin, Civil Engineer NM Rg. #20068	**Paul Browne,** Architect NM Rg. #4260
Wesley Meyer, Structural Engineer NM Rg. #26170	**Jennifer Cramer,** Architect NM Rg. #5636

Where the services are to be performed.

The WHPacific Albuquerque office will be primarily responsible for all civil, mechanical, electrical, and structural engineering, as well as architectural design services for this contract.

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

CITY OF ALBUQUERQUE
Rhonda Methvin, PE, Project Manager

Project Manager
Pamela Lentini, PE, CBCP

Mechanical Engineering	Electrical Engineering	Civil Engineering	Airfield Design
Pamela Lentini, PE, CBCP Kurtis Wintheiser, PE, LEED AP	Phillip Sitges, PE, LEED AP Bill Foster, PE, LEED AP	Rick Beltramo Jacky Lin, PE	John Shute

Structural Engineering	Architecture	Transportation Planning	Geotechnical Engineering
Wesley Meyer, PE	Paul Browne, AIA, MBA, PMP Jennifer Cramer, RA, NCARB	Andrew Gallegos, PE Adam Miera, PE	Ralph Abeyta, PE

Key staff members assigned to this contract were chosen because of their:

Experience with City of Albuquerque and other on-call contracts

Experience with City of Albuquerque projects and procedures

Experience with Sunport and other aviation projects

Professional credentials, education, and ability to respond to task orders

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

WHPacific's Albuquerque staff can provide all of the anticipated services required for this on-call from our local, multi-discipline office. As an NV5 company, WHPacific has the added benefit of a depth of resources that can be drawn from our NV5 sister offices in Albuquerque, as well as a national pool of expertise in a variety of disciplines, should the need arise. These disciplines/resources may include, but are not limited to, structural, geotechnical, and environmental engineering; cost estimating, and IT services.

Should the need for additional consultants outside of the WHPacific and NV5 companies arise, WHPacific will obtain Aviation Department approval before proceeding with any subcontracts. As a local firm, we strive to support local businesses and will seek local consultant partners where required.

PAMELA LENTINI, PE, CBCP | PROJECT MANAGER/MECHANICAL ENGINEER

Professional Engineer, NM 14255; BS, Mechanical Engineering Technology, New Mexico State University; Certified Building Commissioning Professional

Pam has 31 years of experience in project management, QA/QC, Commissioning, LEED design and documentation, energy modeling, and design of HVAC and plumbing systems. She has been actively involved in numerous projects with the City of Albuquerque Aviation Department over the past ten years.

PROJECT EXPERIENCE

- Albuquerque International Sunport, Albuquerque, NM:
  - RAC Fire Suppression Assessment
  - West Area Fire Suppression Assessment
  - TSA/Concession Renovation
  - Pet Relief Area
  - Nursing Mothers Room
  - Administration Renovation
  - Art Storage, Concourse B Elevator
  - Exit Walkway
  - Food & Beverage Concessions
  - Terminal Additions & Renovations
  - Command Control Center
  - Shared Tenant Services Infrastructure & IT Room Improvement
  - Mechanical & Electrical Upgrades
- Double Eagle II Air Traffic Control Tower, Albuquerque, NM

PHILLIP SITGES, PE, LEED AP BD+C | ELECTRICAL ENGINEER

Professional Engineer, NM 22284; BS, Electrical and Computer Engineering, University of New Mexico; LEED Accredited Professional

Phillip brings 17 years of experience as an electrical engineer, including 10 years of facilities design experience, in building construction and design of electrical, power generation, and transmission systems. His facility experience includes a variety of healthcare, industrial, residential, commercial, educational, and military projects.

PROJECT EXPERIENCE

- Albuquerque International Sunport, Albuquerque, NM:
  - RAC Fire Suppression Assessment
  - West Area Fire Suppression Assessment
  - TSA/Concession Renovation
  - AIS RAC Site Improvements and PV Array
- Kirtland Air Force Base IDIQ, Albuquerque, NM
- City of Las Vegas On-Call, Las Vegas, NM
- Repair Hangar 1080 QF-16, Holloman Air Force Base, NM
- Repair Fire System Deficiencies, Multiple Tenant Hangars, Holloman Air Force Base, NM
- 58 SOW Facility Infrastructure and Space Utilization Study, KAFB IDIQ, Albuquerque, NM

KURTIS L. WINTHEISER, PE, LEED AP | MECHANICAL ENGINEER

Professional Engineer, CO 39170 +19 additional states; BS, Mechanical Engineering, Tulane University; LEED Accredited Professional

Kurtis brings more than 30 years of experience and practice with commitment to client goals and satisfaction, systems design excellence, emerging trends, and sustainable building systems design.

PROJECT EXPERIENCE

- HVAC Renovation, Green Army Aviation Support Facility (AASF), Ohio Army National Guard, Canton, OH
- Rehabilitation and Modernization Harrisburg Military Post, Harrisburg, PA
- US Army Corps of Engineers Reserve Center, Orlando, FL

JOHN SHUTE, PE | AIRFIELD DESIGN

Professional Engineer (Civil): OR #16086, WA # 44500; MS/BS, Civil Engineering, Oregon State University

John's over 34 years of experience in all phases of aviation design and development enables him to provide a streamlined delivery, alleviate project complexities, and provide cost efficiencies. John's successful guidance and expertise has led to strong relationships with clients and entities such as the FAA, state aviation departments, and project stakeholders.

PROJECT EXPERIENCE

- Del Norte-County Regional – Jack McNamara Field Airport Runway 18-36 Rehabilitation, Marking, And Lighting Upgrade Project – Phase I Preliminary Design, Crescent City, CA
- PAPI Replacement, Orcas Island Airport, Eastsound, WA
- Rogue Valley International Airport Taxiway C And B Realignment and Rehabilitation, Medford, OR

BILL FOSTER, PE, LEED AP | ELECTRICAL ENGINEER

Professional Engineer: NM 16439; MS, Computer & Information Resource Mgmt., Webster University; BS, Electrical Engineering, University of Missouri; LEED Accredited Professional, Certified Building Commissioning Professional

Bill brings over 30 years of electrical design experience to the team, including lighting, fire alarm, power, and communication.

PROJECT EXPERIENCE

- Albuquerque International Sunport Command Control Center, Albuquerque, NM
- Shared Tenant Services Infrastructure and IT Room Improvement, Albuquerque International Sunport, Albuquerque, NM
- Double Eagle II Air Traffic Control Tower, Albuquerque, NM
- Airport Traffic Control Tower, McCarran International Airport, Las Vegas, NV

RICK BELTRAMO | CIVIL ENGINEER

BS, Civil Engineering, New Mexico State University

Rick brings over 30 years of design experience to the team, specializing in supporting land entitlements, land acquisitions, infrastructure design, and land development and construction.

PROJECT EXPERIENCE

- Albuquerque International Sunport, Airport Master Plan Improvements, Albuquerque, NM*
- James Dwyer Police Substation Parking Lot Addition, City of Albuquerque, NM
- Zuni Parking Lot Repaving, City of Albuquerque, NM
- Adobe Estates Phases II-III Design and Construction Management, Tamaya Housing Inc., Pueblo of Santa Ana, NM

MINXUAN (JACKY) LIN, PE| CIVIL ENGINEER

Professional Engineer: NM #20068; BS, Civil Engineering, University of New Mexico

Jacky has 14 years of experience in roadway, utility, and grading and drainage design for site development projects. Served as a site civil designer & engineer for residential and recreational facilities, school sites, fire stations and multipurpose buildings.

PROJECT EXPERIENCE

- Albuquerque International Sunport, Albuquerque, NM:
  - RAC Fire Suppression Assessment
  - West Area Fire Suppression Assessment
  - AIS RAC Site Improvements and PV Array
- On-Call Engineering and Architectural Services, City of Albuquerque, NM
- Zuni Parking Lot, City of Albuquerque, NM

ANDREW GALLEGOS, PE | TRANSPORTATION PLANNING

Professional Engineer (Civil): NM #18818; BS, Civil Engineering, New Mexico State University

Andrew has 17 years of urban and rural roadway design and modeling, ADA sidewalk, multi-purpose trail, and driveway design, intersection and roundabout design, drainage structure and storm drain design, project cost estimation, and construction inspection.

PROJECT EXPERIENCE

- Paseo del Norte Design Analysis Report, Preliminary and Final Design, City of Albuquerque, NM
- I-25 Business Loop, Phase I-A, Phase I-B, Preliminary and Final Design, NMDOT, Truth or Consequences, NM
- 2nd Street Phase IV & V Preliminary and Final Design, Grants, NM
- 98th Street Reconstruction, City of Albuquerque, NM

ADAM MIERA, PE | TRANSPORTATION PLANNING

Professional Engineer (Civil): NM #21486; BS, Civil Engineering, New Mexico State University

Adam has 15 years of diverse transportation engineering and management experience on projects varying from rural single-lane roadways to urban multi-lane facilities. Experience providing expertise in geometric design, traffic modeling, traffic studies, and signal design.

PROJECT EXPERIENCE

- I-25 Business Loop, Phase I-A, Phase I-B, Preliminary and Final Design, NMDOT, Truth or Consequences, NM
- Unser Boulevard Extension, City of Albuquerque, NM*
- Wyoming Blvd. Widening Ph I & II, City of Albuquerque, NM*
- Lead & Coal Ave. Improvements, City of Albuquerque, NM*

**experience with previous employer*

WESLEY MEYER, PE | STRUCTURAL ENGINEER

Professional Engineer (Civil): NM #26170; BS, Civil Engineering, University of New Mexico

Wesley has 5 years of transportation engineering experience including bridge and structural design and detailing, roadway design and modeling, signing and striping design, pedestrian and ADA design, construction traffic control traffic, drainage system design.

PROJECT EXPERIENCE

- Albuquerque International Sunport, Albuquerque, NM:
  - AIS RAC Site Improvements and PV Array
- Convention Center Roof Evaluation, Albuquerque, NM
- Lead Parking Structure Assessment and Design, Albuquerque, NM

PAUL BROWNE, AIA, MBA, PMP | SENIOR ARCHITECT

Registered Architect: NM 4260; MA Architecture and MBA, Rensselaer Polytechnic Institute; BA, Architecture, University of Notre Dame; Project Management Professional

Paul has 30+ years of architectural design and project management experience, including programming, planning, construction documents, construction administration. He has 17 years of experience with the City of Albuquerque, the Sunport, and Double Eagle Airport.

PROJECT EXPERIENCE

- Albuquerque International Sunport, Albuquerque, NM:
  - AIS RAC Site Improvements and PV Array
  - RAC Service Centers Fire Suppression Assessment
  - West Area Fire Suppression Assessment
  - Food & Beverage Concessions
  - Command Control Center
  - FIDS/BIDS/GIDS Upgrades
  - Shared Tenant Services Infrastructure & IT Room Improvement
  - Hangar and Office Remodel
  - Terminal Additions & Renovations
  - Snow Removal Equipment Facility
  - Mechanical & Electrical Upgrades
- Double Eagle II Air Traffic Control Tower, Albuquerque, NM

JENNIFER CRAMER, RA, NCARB | ARCHITECT

Registered Architect: NM 5636; MA Architecture, University of Michigan, BS, Architecture, University of Michigan

Jennifer is a detail-oriented registered architect with 10+ years of experience. She is skilled at management of project data and coordination with other disciplines. Jennifer is passionate about working with clients to create inspiring spaces that support their programs and goals

PROJECT EXPERIENCE

- UNM 1650 Medical Office Building, Albuquerque, NM
- UNM McKinnon Center for Management, Albuquerque, NM
- NMSU Dona Ana Campus Infrastructure and Renovations, Las Cruces, NM
- CNM Smith Brasher Hall Renovation, Albuquerque, NM
- UNM Innovation, Discovery and Training Complex, Albuquerque, NM

RALPH L. ABEYTA, PE | GEOTECHNICAL ENGINEER

Professional Engineer: NM #10852; MS, Civil Engineering, University of Texas at Arlington; BS, Civil Engineering, New Mexico State University

Ralph has 37 years of experience providing expertise in Geotechnical Engineering, Foundation Analysis and Design, Site Investigations, Field Inspection, Pavement Design, Project Management, and Technical Quality Control.

PROJECT EXPERIENCE

- Cutter Intertie Water Supply Project, Jicarilla Apache Nation, NM
- NGWSP Reach 21 Wash Crossings, Navajo Nation, Bloomfield, NM
- Dry Sludge Pond Assessment of South Industrial Storm Treatment Plant, Dallas Fort Worth International Airport, TX

Snow Barn Complex

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

WHPacific has been providing design services for Albuquerque International Sunport projects since 1979. The proposed WHPacific Albuquerque team of professionals bring more than 15 years of experience with projects at the Albuquerque International Sunport in addition to decades of experience with City of Albuquerque projects. We offer the following as evidence of our team's unique qualifications for this on-call engineering contract:

PAST CITY OF ALBUQUERQUE ON-CALL EXPERIENCE

WHPacific's Albuquerque office has worked closely with the City of Albuquerque through multiple architectural and engineering on-call contracts. As a result, our team members have a depth of knowledge regarding City processes including legal review, permitting, and procurement. Our team includes several staff members that have led City of Albuquerque projects in their respective disciplines, including Pam Lentini, Andrew Gallegos, Adam Miera, Paul Browne, and Jon Pena.

ALBUQUERQUE INTERNATIONAL SUNPORT EXPERIENCE

Our team is currently providing MEP design for task orders at the Albuquerque International Sunport including the TSA/ Concessions Renovations, Mothers Nursing Room, Art Storage, Pet Relief Room, Administration Suite Improvements, and more. Through the Terminal Optimization On-Call contract (2004-2012) and the West Airport Improvements On-Call (2005-2020) contract, our team documented the majority of the Albuquerque International Sunport's engineering systems.

ON-CALL CONTRACT MANAGEMENT

WHPacific Albuquerque's office has managed multiple on-call and open-end contracts for numerous clients across New Mexico. Our team is highly adept at efficiently executing projects and providing responsive, quality services to each of our clients. Notably, our proposed team members have managed on-call contracts with the City of Albuquerque for MEP Engineering, Civil Engineering, Transportation and Storm Drainage, as well as Architectural services.

2020-2024
CITY OF ALBUQUERQUE AVIATION DEPARTMENT SUNPORT AND DOUBLE EAGLE AIRPORT ON CALL Albuquerque, NM

Sunport Rental Car Center (RAC) PV and Pavement Assessment Report: The Albuquerque International Sunport Rental Car Center (RAC) PV and Pavement Assessment report analyzed the feasibility of utilizing PV arrays located atop new parking canopies as a means to offset the power the facility utilizes and to create a net-zero demand for the facility. In addition to the PV recommendations, WHPacific assessed the condition of the asphaltic parking surfaces at the parking lots and the concrete drive lanes at the bus stop.

AIS RAC Service Centers Fire Suppression Assessment: WHPacific evaluated five service center buildings (C, J, K, Q, and T) at the Rental Car (RAC) facility to determine how to accommodate the requirements of installing a fire suppression sprinkler system at each of the buildings. WHPacific contracted a company to conduct water flow and pressure tests on the existing water utility on the Sunport's behalf. WHPacific then evaluated the water flow and pressure requirements at each of the buildings to determine if the existing utility would be sufficient to supply the fire suppression system at each of the buildings. The assessment also included the proposed site utility extension routing to each building to support the fire service. WHPacific determined, through site visits, the proposed location, with modifications needed, for the fire riser to be housed at each building along with the requirements of a fire alarm system. The assessment also included a probable estimate of the cost of the fire suppression system.

West Campus Fire Suppression Assessment: WHPacific evaluated four buildings located at the Sunport's west campus. The evaluation's main goal was to determine how to accommodate the requirements of installing a fire suppression sprinkler system at each of the four buildings. The buildings evaluated were the Old Snow Barn, the New Snow Barn, Belly Freight, and Airfield Maintenance buildings. WHPacific performed site visits at each of the buildings to locate proposed fire riser rooms and verify any building modifications needed to accommodate the fire riser. WHPacific contracted a company to conduct water flow and pressure tests on the existing water utility on the Sunport's behalf, then evaluated the water flow and pressure requirements at each of the buildings to determine if the existing utility would be sufficient to supply the fire suppression systems. The assessment also included the proposed site utility routing to each of the buildings to support the fire service and the requirements of a fire alarm system. The assessment also included a probable estimate of the cost of the fire suppression system.

***Contact**: Hartwell Briggs, Planning Manager, 505.244.7800; **Dates**: 2021 – ongoing; **Team**: Paul Browne, Architect, Pam Lentini, Mechanical Engineer, Bill Foster, Electrical Engineer; **Construction Costs**: N/A for assessments*

2016 – 2019
CITY OF ALBUQUERQUE AVIATION DEPARTMENT, MECHANICAL, ELECTRICAL, AND PLUMBING ON CALL Albuquerque, NM

WHPacific is contracted under FBT Architects to perform the Mechanical, Electrical and Plumbing (MEP) design including reconfiguration/redistribution of HVAC, new HVAC equipment and controls, lighting, power, A/V, IT, plumbing. Task orders include:

- Sunport Parking Structure Assessment (Ph1)
- Weather Service Center
- Mothers Nursing Room
- Art Storage
- Pet Relief Room
- Concourse B Elevator/Vendor access at B Concourse
- Administration Suite Improvements (~11,700 SF)
- Exit Walkway and One-Way Vestibule Corridor
- Weather Service Station Renovations
- FAA Building Feasibility Study

***Contact**: Hartwell Briggs, Planning Manager, 505.244.7800; **Dates**: 2016-2019; **Team**: Pam Lentini, Mechanical Engineer, Bill Foster, Electrical Engineer, **Construction Costs**: Mothers Nursing Room/Art Storage/Pet Relief Area, $555,552; Admin Suite, $1,694,421; Exit Walkway & Corridor, $1,008,631; Concourse B Elevator, $573,356*

2013 – 2021
WEST AIRPORT IMPROVEMENTS ON CALL Albuquerque, NM

Snow Barn Complex (2017 AGC Best Building Award Winner): Programming, design and construction administration services for new 12,527 SF snow removal equipment building and associated structures. Construction Cost: $4,065,013

Eclipse Production Facilities: Renovation of interior restrooms; plumbing and HVAC upgrades; replacement of primary HVAC equipment; electrical upgrades; relocation of secondary panel; engineering support to repair/replace exhaust fans in the adjacent Sunport 3 facility. Construction Cost: $343,505

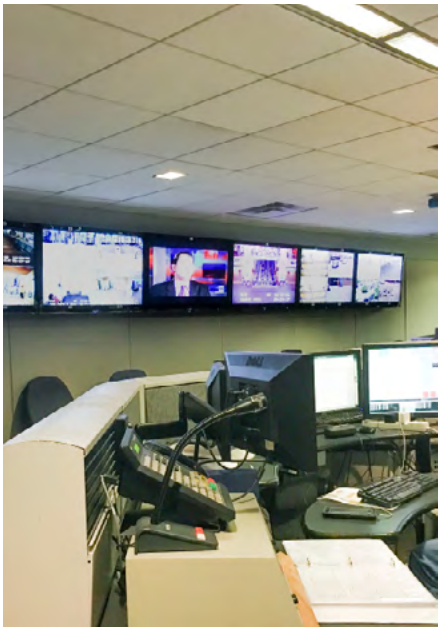
RAC Restroom Renovation: Renovation of existing RAC restrooms and janitor closet, demolition of the existing Flight Information Display (FID) kiosks, and patching/repair of the FID location post demolition. Construction Cost: $384,842

Shared Tenant Services (STS) Infrastructure and IT Room Improvements: Fiber infrastructure to support installation of the new STS phone system within the West Airport Improvement Area; fiber optic loops for network system redundancy and redundant mechanical and electrical systems to support the main point of presence for the STS phone system at the Consolidated Rental Car Facility (RAC); smaller IT rooms at the Weather Service Station and Air Cargo facility to support network distribution to other locations within the west campus of the Sunport. Construction Cost: $435,800

- Demolition of air field buildings to accommodate master planned expansion of the terminal building
- Sunport 4 Hangar; Renovation of the Eclipse Aviation leased-space
- The demolition of the old ASIG and Sky Chefs building
- IT Strategic Plan

***Contact**: Hartwell Briggs, Planning Manager, 505.244.7800; **Dates**: 2013 – 2021; **Team**: Paul Browne, Architect, Pam Lentini, Mechanical Engineer, Bill Foster, Electrical Engineer*

2004 – 2012
ALBUQUERQUE INTERNATIONAL SUNPORT TERMINAL OPTIMIZATION ON CALL Albuquerque, NM



The Optimization Projects resulted in over $75M in renovations and new construction at the Sunport. Optimization projects included improvements to the existing building infrastructure, replacement of failed building systems and additions to the existing building structure to meet the demand of forecasted regional growth. Work included strategic planning, environmental analyses, demolition of existing facilities, terminal building renovations, mechanical and electrical system upgrades and critical coordination with local and federal government agencies, including the FAA and TSA.

Food and Beverage Concession Renovation: Design and construction administration for the main infrastructure needs at all new food and beverage concession renovations required coordination with concessionaire architects and engineers as well as multiple contractors working concurrently within the Sunport. The majority of construction occurred within the terminal's air-side concourse departure level; however, some concessions were provided on the land-side for aviation staff, regional airlines, and public access. Concessionaire access and contractor staging areas were coordinated at the apron level. Temporary partitions minimized the impact of construction (dust, safety, noise). The design for the new natural gas line extension was a key component to providing new food and beverage offerings throughout the terminal building; prior to this renovation food and beverage concessions relied solely on electric power. Sufficient HVAC supply, exhaust, make-up air, sanitary service, adequate grease trap capacity, domestic water, power, gas, service access, storage, square footage, fire/life safety separation, and phased construction were critical concerns for this project.

Command Control Center: Programming, conceptual design, MEP Engineering, Fire and Life Safety Engineering, equipment selection, IT, software, CCTV, PA, and lighting schedules, completing construction documents, coordinating all specialized airport, communications, and security consultants, providing bid support, and construction administration for single, central location to house all information technology systems utilized by the airport. Systems include an integrated public address system, security control and monitoring systems, an inbound and an outbound communications call center, an Automatic Vehicle Identification (AVI) system for the public parking facilities, fire alarm monitoring systems, and control of all CCTV systems in the terminal, concourses, and aircraft ramp. All electronic door hardware and locks are also monitored from this location. Designed within a secure area of the airport terminal; can only be accessed via controlled passageways. Construction Cost: $5,488,500

Mechanical & Electrical Upgrades: Removal of existing pneumatic controls system and installation of native BACnet BAS controls system throughout the 554,000 SF terminal building; system-wide analysis of existing mechanical air handler and distribution systems to identify capacity needs and shortcomings. Installation of controls for the building's HVAC systems, chiller, and boiler plants and three remote buildings. New chiller installation, cooling tower replacement, primary pump replacements, boiler installation, and hot water pump replacements to provide redundant systems for the terminal building. All the work was designed in a manner to be performed while not disturbing the 24/7 airport operations. Construction Cost: $4,397,410

FID/BIDS/GIDS Upgrades: Project modernized the Sunport's failing Flight Information Display System (FIDS), Baggage Information Display System (BIDS), and Gate Information Display System (GIDS). Project was fast-tracked due to an antiquated infrastructure that was near failure. The IT infrastructure for the project incorporated additional fiber strands to expand capacity within the Sunport's fiber backbone. Casework for the new GIDS systems was carefully designed to provide easy access to internal IT components, like computers, servers, switches, and cabling, while also providing adequate flexibility to accommodate equipment that is unique to each airline. Construction Cost: $736,858

The Optimization Program also included:

- Terminal additions and renovations; increase hold areas, restrooms, and concession space capacities based on forecasted terminal demand. The project included additional security controls for terminal access doors and new video monitoring systems.
- Air handler study; a system-wide analysis of the existing mechanical air handler and distribution systems to identify capacity needs and shortcomings for point of use occupants.
- Chiller plant and boiler plant upgrades to provide redundant systems for the terminal building.
- Upgrades to existing fire alarm systems providing a single, comprehensive, state-of-the-art fire detection system throughout the entire airport.
- Demolition of airfield buildings to accommodate master planned expansion of the terminal building.

***Contact:** Hartwell Briggs, Planning Manager, 505.244.7800; **Dates**: 2004-2012; **Team**: Paul Browne, Architect, Pamela Lentini, Mechanical Engineer, Bill Foster, Electrical Engineer*

CITY OF ALBUQUERQUE AVIATION DEPARTMENT, DOUBLE EAGLE II AIR TRAFFIC CONTROL TOWER Albuquerque, NM

The construction of the 5,430 SF Double Eagle II Air Traffic Control Tower made Double Eagle a controlled airfield. This was critical for safety after the airport saw a significant increase in takeoffs and landings. Although this facility is managed and operated by the City of Albuquerque Aviation Department, the Tower design meets FAA requirements and houses FAA approved communications & weather tracking equipment in compliance with the FAA Contract Tower Program. Measuring 86 feet high, the Tower consists of eight levels including the two-level control cab and the mechanical sub-junction level. The equipment package includes: touch-screen computers to control air traffic operations, radios for communication, two separate weather-monitoring systems, a lighting system to control airfield lighting, receiving equipment, and high security and access control.

***Contact**: Hartwell Briggs, Planning Manager, 505.244.7800; **Dates**: 2002-2007 (construction was postponed due to funding); **Team**: Paul Browne, Architect, Pam Lentini, Mechanical Engineer, Bill Foster, Electrical Engineer; **Construction Costs:** $3,183,556 ($2,800,000 for construction and $383,556 for equipment)*

ON-CALL FOR CITY OF ALBUQUERQUE Albuquerque, NM

WHPacific is currently contracted and has designed 15 task orders to date including the following projects.

Pino Yards MCC's: Evaluation and design to replace the existing MCC with a panelboard and design new controls for the HVAC equipment being served from the existing MCC. Project is currently in bidding. Work will include construction administration service, permitting, record drawings. Construction Cost: $84,635 (Bidding Cost)

Convention Center Roof Structural Investigation for Solar Panels: Review of existing as-built drawings and analysis of the roof of the convention center to determine whether there is residual structural capacity to support the addition of solar panels. Evaluation included a separate framing system spanning from grid lines 6 to 9 to be placed above the skylights. Work also included taking cores in the roof between the atrium windows and two additional cores through the flat roof to confirm dead loads to the columns.

BioPark Utility Extension Work at Australia and Asia: Design of utility extensions for two future sites at the Albuquerque BioPark. Utilities include water, sewer, power, IT and gas; extensions will be utilized by the future exhibits. WHPacific is currently assisting the City in submittal requirements to ABCWUA and the Fire Marshall and to move a water line from the responsibility of the water utility authority to a private BioPark water line. Construction Cost: $1.2M (Engineers Estimate)

Cibola Loop: Report that will provide an evaluation of 4 possible solutions to remove or reduce the size of the existing stormwater pond from the site. The solutions evaluated will take into account hydrology and pond hydraulics including modeling.

Montessa Park Recycling Center: Design a site plan, including lighting, to accommodate loading haul trucks along with 6 recycling bins and 1 roll-off bin for general public use. Work included the survey of the area. Construction Cost: $87,000 (Engineers Estimate)

Additional Task Orders on the current contract include:

- Carolino Property Well NMED Application
- James Dwyer Police Substation Parking Lot, Lighting and Survey
- Kiva Auditorium Floor Structural Load
- Albuquerque Museum Roof Evaluation
- Zuni Parking Lot Repave
- Albuquerque Records Center Roof Evaluation
- VPMD Exhaust System
- Lead Parking Garage Structural Evaluation

Previous on-call projects include:

- Convention Center Stucco and Structural Review
- Plaza del Sol Lighting Upgrade
- City/County Boiler Study & Replacement and HVAC Energy Assessment

***Contact**: Stacy Herrera, Project Manager, 505.768.2768; Jesse Valdez, Construction Project Manager, 505.768.3530; **Dates**: 2001–present; **Team**: Paul Browne, Architect, Pam Lentini, Mechanical Engineer, Phillip Sitges, Electrical Engineer, Jacky Lin, Civil Engineer, Rick Beltramo, Civil Engineer*

SANDIA NATIONAL LABORATORIES FACILITY EXPRESS Albuquerque, NM

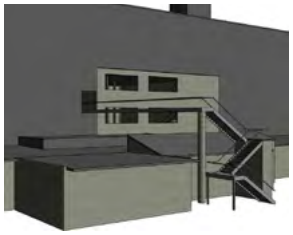
Under this on call contract (as a sub to Vigil Enterprises), WHPacific performs mechanical, electrical and plumbing design services through post-construction for small project types. These projects are fast track with an average 30-day turn around. Upon receipt of a task order, WHPacific is responsible for scoping the project on-site with the customer, performing necessary field work, design, construction estimates, construction administration, final as-builting and project close-out. The project types vary from lighting upgrades, power to specialty equipment, specialty gases, HVAC additions for equipment loads and office/lab renovations. WHPacific has successfully performed these duties for approximately 118 task orders to date under this current contract.

Projects under this contract include:

- B6585 / Reconfig Lab 2509
- B890/R3498 – Lab Space Design
- B895/R2207: Install cubicles to increase capacity
- B962/Storefront
- B960/Rm 1007 lighting and Compressed Air
- B905/Rm 1308 Chilled water lines
- B836/Rm 1318 Remodel Manager Office
- B996, Modify stent to maintain heat
- Area 2, North Vehicle Gate
- B891, Compressed Air, N2 and Electrical
- B720, Provide tie-ins for utilities to support new equipment
- B701, Oxygen Sensors/Alarms
- B6594, Water Chiller Relocation

***Contact**: Denise Vigil, Vigil Enterprises, 505.455.1211 ext. 1502; Kareem Saint-Lôt, PE, SNL Project Manager, 505.845.7511; **Dates**: 3/2018-Present; **Team**: Pam Lentini, Mechanical Engineer, Phillip Sitges, Electrical Engineer; **Construction Costs**: Varies*

KIRTLAND AIR FORCE BASE IDIQ Albuquerque, NM



Recent task orders for the Kirtland AFB IDIQ include:

Design/Renovate Building 20220: Programming and design for renovation of office building and Security Police control center. Worked with the Base to define the scope especially for the control center during programming. Includes new ceilings, light fixtures and sprinkler system throughout the building; ADA compliance upgrades; restroom renovations; complete renovation to the control center which included an expansion, video wall and new finishes, HVAC, lighting, receptacles and data outlets. Construction Cost: $1,728,564 (Engineers Estimate)

Design/Renovate Island A, Hangar 1002: Programming and design to renovate the three story "Island A" in Hangar 1002. Included space planning, demolition, asbestos abatement, ADA compliance, office spaces, conference room, restrooms, breakrooms, IT/data rooms, elevator replacement and a new stairway as a second means of egress. Provided new HVAC, fire protection, electrical and communications systems throughout renovated areas. Construction Cost: $2,900,171 (Engineers Estimate)

Study 58th SOW Facility Infrastructure and Space Utilization: Building assessments for forty-one (41) facilities, and 1 million square feet, belonging to the 58th Special Operations Wing (SOW). Reports for each facility identified deficiencies in HVAC, plumbing, electrical and fire protection and alarm systems as well as ADA and other non-code compliant issues. Reports recommended projects with scopes, cost estimates, and schedules to correct deficiencies. Recommendations were also made to relocate activities within the 58th SOW to better utilize the facilities.

Repair Taxiway to Pad 5: Remove existing improvements and construct a replacement for a taxiway and aircraft parking pad at Kirtland AFB. Repairs include the replacement of the medium intensity taxiway lights and their associated power cables.

Repair HVAC PMEL Building 325: Design for replacement of the HVAC system in the Precision Measurement Equipment Laboratory (PMEL) building with an Air Handling Unit using variable air volume boxes and hot water reheat system. Concept Study prior to design evaluated three HVAC systems to select the best system based on cost and ability to meet facility requirements. Construction Cost: $2,106.757 (Engineers Estimate)

***Contact**: Jason Underwood, KAFB Staff, Civil Engineer, 505.846.7867; **Dates**: 2011 - 2018; **Team**: Paul Browne, Architect, Pam Lentini, Mechanical Engineer, Bill Foster, Electrical Engineer, Jacky Lin, Civil Engineer*

PASEO DEL NORTE DESIGN ANALYSIS REPORT, PRELIMINARY AND FINAL DESIGN

Albuquerque, NM

This project was awarded to WHPacific in 2020 and is funded by Capital Outlay Funding. The project begins at Rainbow Blvd and extends to the east to Calle Nortena, approximately 2 miles in length.

The project includes a Design Analysis Report (DAR) which included evaluation of the existing conditions, determination of the preliminary roadway and drainage alternatives, and recommendation of a preferred alternative to advance into preliminary design. The study analyzed a four-lane facility to accommodate future growth and traffic needs. This project also included field survey and ROW determination, signals and lighting evaluation, and drainage evaluation.

The Draft DAR was completed in May 2021 and the Final DAR will be completed by July 2021. Preliminary Design is scheduled to be completed in the winter of 2021 and Final Design in 2022. The final recommendations for the project included implementing a "Complete Streets" typical section in accordance with local ordinance with a 4-lane roadway, 5' wide bicycle lanes, median curb and gutter and left/right turn lanes, ADA curb ramps, a 10' wide asphalt multi-use trail on both sides of the road. Issues with shallow basalt rock is currently being mitigated for potential solutions regarding the underground utilities and the proposed storm drain system. ITS will also be included in the design of the project to interconnect signals along the corridor.

ON-CALL, OPEN END, AND IDIQ CONTRACTS

WHPacific has supported numerous entities throughout New Mexico through on-call contracts, including:

- City of Albuquerque (architectural, mechanical and electrical) – Valued client over 20 years
- Bernalillo County (architectural, mechanical, electrical and civil)
- Kirtland AFB (architectural, mechanical, electrical and civil)
- New Mexico Game and Fish Department IDIQ (all disciplines)
- Albuquerque Public Schools (mechanical, LEED and acoustical) – Valued client over 20 years
- The University of New Mexico (Commissioning)
- Bureau of Indian Affairs (architectural, mechanical, electrical, roadways and environmental) - Valued client over 20 years
- The Counties of Los Alamos, McKinley, Cibola, and Taos (architectural, mechanical, electrical, transportation, drainage, construction observation)
- The Cities of Aztec, Clayton, Grants, Las Vegas, Mountainair, Portales, Ruidoso, Socorro, Santa Rosa, Santa Teresa, Silver City, Red River, Truth or Consequences and Tucumcari, (architectural, mechanical, electrical, transportation, drainage, construction observation)

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 procedure.

The WHPacific team's Project Manager, Pam Lentini, is a New Mexico licensed Mechanical Engineer that has served as Project Manager for numerous City of Albuquerque projects. Pam has over 14 years of experience managing projects for the City for Albuquerque and over 17 years of experience managing engineering projects. Over the past 5 years, this experience has included numerous successful projects involving mechanical, electrical, civil, and structural engineering scopes. She is very familiar with City requirements and procedures as well as the City's legal, permitting and scheduling processes. Combining Pam's experience and strong management skills with the specialized expertise of this knowledgeable design team offers the City of Albuquerque a proven record of success that you can trust throughout this Engineering On-call contract.

Pam's experience with City of Albuquerque contracts over the past 5 years includes the following:

- ABQ Bio Park Utility Extension to Asia and Australia
- Lead Parking Structure Structural Evaluation and Design
- Pino Yards HVAC Assessment
- VPMD Vehicle Exhaust
- Zuni Parking Lot
- Cibola Loop Drainage
- Convention Center Roof Structural Assessment
- Carolino Property Well

Other past projects include:

- Albuquerque International Sunport Air Handler Study
- Albuquerque International Sunport Boiler and Chiller Replacement
- Albuquerque International Sunport Terminal Additions and Renovations
- Albuquerque International Sunport Mechanical and Electrical Upgrades
- Albuquerque International Sunport Command and Control Center

Supporting Pam in her role as project manager are several team members that also have project management experience with the City of Albuquerque: Andrew Gallegos, Adam Miera, Jon Pena, Jacky Lin, and Paul Browne. As a result, WHPacific offers redundancy with strong experience in this role. Based on the task order's scope of work, Pam has the discretion to assign task orders to the discipline lead best suited for that particular project. Moreover, it allows each discipline lead the flexibility to execute the work in the most efficient manner feasible. With Pam's leadership as the point of contact for the City, on call tasks orders will be expedited to meet your schedule.

Pam has worked with the Aviation Department as a Lead Mechanical Engineer since 2006. Pam's major work includes replacing the chiller and boiler, the addition of the third cooling tower and upgrading all of the pneumatic controls to electronic. As part of the Mechanical and Electrical Upgrades project, she field verified, documented and as-built the entire HVAC system throughout the entire Sunport which has given her familiarity of the buildings systems like no other. This portion of the project provided the Aviation department with full ACAD as-builts of the entire HVAC system for their use moving forward. From 2006 to present she, along with her team, has continued to work with the Aviation department on projects such as the Air Handler Units Study, Pet Relief Room, West Area Fire Suppression Assessment, Parking Structure Assessment, TSA and Concession Renovation to mention a few. Her and her teams knowledge and experience of the systems at the Sunport provide invaluable in moving forward with future projects.

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

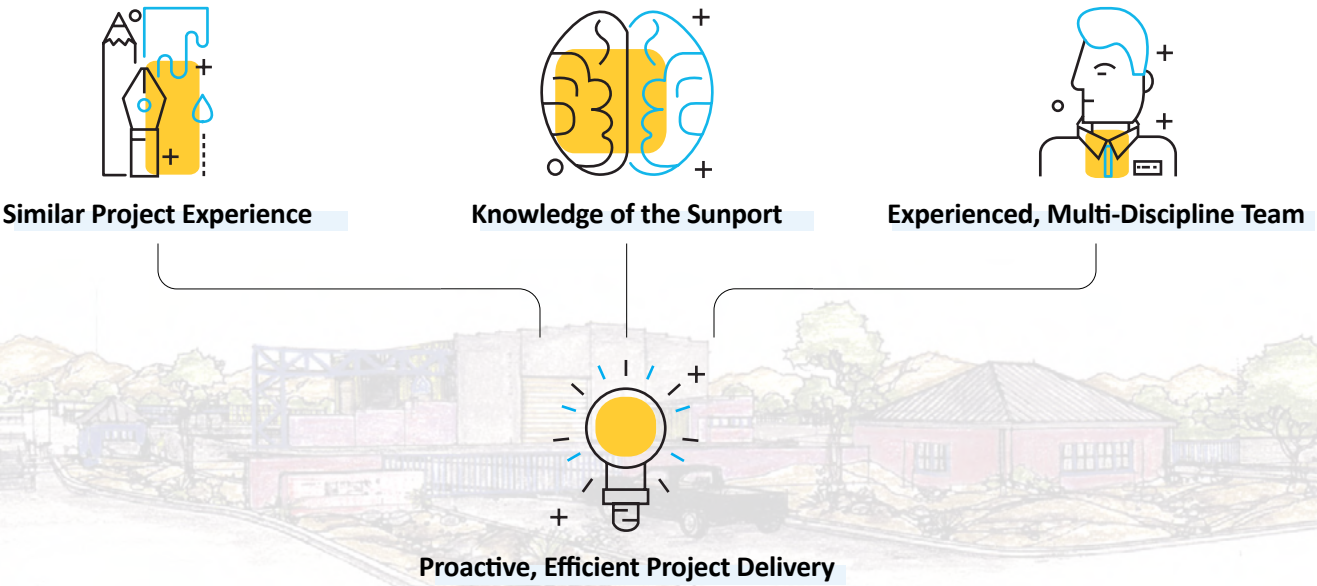
WHPacific understands that projects under this on-call will resemble current Sunport projects like the new Concourse B Elevator and the Concourse A Pet Relief Area. Many projects will involve the repair or renovation of existing equipment or facilities, such as a small demising partition within an existing office space.

The need for a strong engineering team to support these task orders is critical. **When paired with our architectural staff, WHPacific's in-house team of mechanical, electrical, plumbing, civil, and structural engineers can respond to the Aviation Department's needs without the added cost of subconsultant mark-ups.** Individual members of this team have worked with the Sunport continuously for over fifteen years; and, as a firm, WHPacific has over thirty-five years of experience on Sunport projects. Through the Terminal Optimization Projects (2004-2012), WHPacific has been involved with infrastructure and facility upgrades throughout the entire terminal building. As a result, we understand the type of work to be completed under this on-call contract, and we know how to efficiently execute the work to see it constructed in a manner that meets the Aviation Department's standards.

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

WHPacific will support this contract with its most experienced architectural team. Engineering support will be added based on each project's specific need. Our approach will provide the required expertise and specific personnel for each task throughout all phases of design and construction. Having no external subconsultants allows WHPacific to ensure a quality design response to meet your needs.

WHPacific will work closely with the Aviation Department to program each project and define the scope of work where needed; however, we anticipate that **most projects under the on-call contract will require a direct and immediate solution to a specific building system inefficiency or failure.** Knowing the International Sunport has urgent project needs, WHPacific can respond with thoughtful architectural and engineering solutions that can be economically implemented. Construction services can be procured through an open bid or the City Purchasing Department's pool of on-call Contractors.



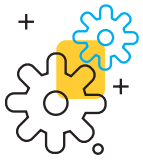
Sunport Mobilization Services Warehouse

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

Some examples of WHPacific's recent specialized problem-solving techniques applicable to this on-call contract include Alternative Design Solutions and Alternative Procurement Solutions.

ALTERNATIVE DESIGN SOLUTIONS

Alternative design methods are those that work more efficiently than traditional design solutions.



Challenge: Minimizing construction timeframe for the Owner allowing for early occupancy.

WHPacific recently worked with the Acoma Pueblo on their Transportation Building, CMGC project. Similar to a CMAR, the Pueblo contracted directly with a General Contractor early in the design phase. The contractor participated in the design phase, reviewed the plans and attended the design review meetings, providing comments as it related to constructability and cost savings. During construction, this minimized construction RFIs and change orders allowing for a streamlined construction schedule. WHPacific performed the design and CA for this project.

Challenge: Analysis of Bearing Capacity Without Record Drawings for Aging Roof Frame

WHPacific's in-house scanning team recently analyzed structural framing members for a re-roof project at the City of Albuquerque Records Center. The concern was that the existing structural framing was inadequate to support the additional weight of insulation required for the new roof system. Without record drawings for this older facility, WHPacific was unable to analyze the bearing capacity of the existing roof framing members. With the help of our scanning team, we were able to accurately identify the size and spacing of each framing member. As a result, we were able to provide quick recommendations to shore up the existing structure and meet the needs of the new roof.

Our team used a similar approach for the addition of new solar panels to the City's Convention Center. WHPacific performed the fieldwork, provided calculations, and determined the available additional load capacity for the photovoltaic system on the existing roof.

ALTERNATIVE PROCUREMENT SOLUTIONS

Timely procurement can be critical for maintaining the operational needs of aviation projects. WHPacific understands Albuquerque procurement methods, as well as the importance of preserving the 24/7/365 operations of the Sunport.

Challenge: Fast-Track Boiler and Chiller Procurements at the Sunport

A mechanical and electrical upgrade at the Sunport required fast-tracking the boiler and chiller procurements. Our team was able to accomplish this using the GSA Schedule. Soon after completion of the fast-track boiler installation, the old boiler failed – with no consequence, however, to operations.

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

A. COST CONTROL OF THE DESIGN PROCESS

A critical step of cost control during design is to establish an accurately defined scope of work for each project. WHPacific's project manager will meet with the Sunport project manager to outline specific work items and make sure all requirements of the specific project are understood. Based on this understanding, our project manager will develop:

- a detailed scope of work,
- fee proposal,
- design schedule.

Another key factor to successfully managing design costs is a balanced staffing plan that facilitates cost effective completion of the work. Senior staff define, direct, and manage work tasks while junior staff perform the day-to-day analyses and plan production. Our balanced approach and lean team deliver high quality services for exceptional value.

B. COST CONTROL OF THE CONSTRUCTION COST

Effective control of construction costs requires several factors be addressed and understood early in project development:

(1) project objectives and priorities must be clear to the design team;
(2) the issues and factors that may affect the project must be recognized and mitigation measures must be established; and
(3) the budget allocated to the project must be known.

Our goal is to ensure our estimate captures the full project scope and meets the City's budget constraints. For this project, we will prepare estimates at each design stage, or as required by the City Cost Estimating Techniques. While construction costs fluctuate, we take steps to ensure that current trends and economic conditions are factored into our estimates. We utilize all available and relevant sources of information to develop costs and fine tune unit prices to reflect the scale and complexities of this project to produce a reliably accurate estimate.

If the estimated construction cost differs significantly from the project budget, we will conduct a review of current program requirements and design evolution vs. original program requirements and anticipated scope of work. We will then develop and implement strategies to reconcile the estimate and budget. Potential remedies may include: value-added analysis of key cost drivers, segmenting or phasing the project.

C. COST ESTIMATING TECHNIQUES

Accurate cost estimates are developed via thorough capture of the scope of work, integration of unit pricing based on current market conditions and legacy data, and proper utilization of risk management techniques.

Our in-house estimating staff blends project specific parameters with experience to predict and manage project costs. We begin with an understanding of the scope of work, informed by our role as an integral member of the design team. We then use cost resources, including our in-house data base, recent public bid results/unit prices, published data base information, and vendor/subcontractor assistance, to validate the unit costs used in our estimates.

Finally, our approach to risk management is based on the concept of replacing unknown risks with informed risks and creating strategies to address and minimize risks. Exploratory testing, owner controlled contingencies, and single-point construction responsibilities are just some of the tools WHPacific recommends for managing risk. Through implementation of these techniques, we achieve a consistent approach to estimating while minimizing redesign and unanticipated cost issues.

2. Provide comparisons of bid award amount to final cost estimate for projects designed by the respondent

Name of Project	Bid Year	# of Bids	Final Cost Est. Amount	Bid Award Amount
City of Albuquerque NW Area Command*	2021	1	$1,042,513	$951,553
Laguna Pueblo IT Upgrades*	2020	1	$1,925,000	$1,865,000
Bernalillo County Courthouse 1st Floor Renovation*	2020	3	$3,500,000	$2,167,500
Bernalillo County Courthouse 2nd Floor Renovation*	2020	3	$375,000	$318,818
City of Las Vegas Utilities Building Renovation	2019	2	$610,000	$555,000
City of Portales Fire Substation	2019	1	$1,896,900	$2,016,000

**under construction*

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 On-Call Engineering Services for the Albuquerque International Sunport and the Double Eagle II Airport

Project Number 7540.00

Date June 2, 2021 Firm Name WHPacific, Inc., an NV5 Company

Signature Daniela Cestoni

Title Director of Facilities

STATE OF NEW MEXICO)

) ss

COUNTY OF BERNALILLO)

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

_____

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

_____ day of _____ , 20 21

_____

(Notary Public)

My commision expires: _____

ACORD

CERTIFICATE OF LIABILITY INSURANCE

5/1/2022

DATE (MM/DD/YYYY) 4/30/2021

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
Lockton Companies
3280 Peachtree Road NE, Suite #250
Atlanta GA 30305
(404) 460-3600

CONTACT NAME:
PHONE (A/C, No, Ext):
FAX (A/C, No):
E-MAIL ADDRESS:

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : The Continental Insurance Company	35289
INSURER B : National Fire Insurance Co of Hartford	20478
INSURER C : Transportation Insurance Company	20494
INSURER D : Berkley Insurance Company	32603
INSURER E :	
INSURER F :	

INSURED
1491108
WHPacific, Inc.
NV5 Global, Inc., NV5, Inc.
200 South Park Road, Su
Hollywood, FL 33021

COVERAGES **CERTIFICATE NUMBER:** 17538140 **REVISION NUMBER:** XXXXXXX

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY	N	N	7014856125	5/1/2021	5/1/2022	EACH OCCURRENCE	$ 1,000,000
	[ ] CLAIMS-MADE [X] OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 1,000,000
	X Contractual Liab						MED EXP (Any one person)	$ 15,000
	X Cross Liab Incl						PERSONAL & ADV INJURY	$ 1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$ 2,000,000
	[ ] POLICY [ ] PRO-JECT [ ] LOC						PRODUCTS - COMP/OP AGG	$ 2,000,000
	OTHER:							$
B	AUTOMOBILE LIABILITY	N	N	7014842659	5/1/2021	5/1/2022	COMBINED SINGLE LIMIT (Ea accident)	$ 1,000,000
	X ANY AUTO						BODILY INJURY (Per person)	$ XXXXXXX
	[ ] OWNED AUTOS ONLY [ ] SCHEDULED AUTOS						BODILY INJURY (Per accident)	$ XXXXXXX
	[ ] HIRED AUTOS ONLY [ ] NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$ XXXXXXX
								$ XXXXXXX
A	X UMBRELLA LIAB [X] OCCUR	N	N	7014841883	5/1/2021	5/1/2022	EACH OCCURRENCE	$ 20,000,000
	[ ] EXCESS LIAB [ ] CLAIMS-MADE						AGGREGATE	$ 20,000,000
	[ ] DED X RETENTION $ $0							$ XXXXXXX
B C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y / N	N/A	N	7014842824(AOS) 7014842810(CA)	5/1/2021 5/1/2021	5/1/2022 5/1/2022	X PER STATUTE [ ] OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? [N] (Mandatory in NH)						E.L. EACH ACCIDENT	$ 1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$ 1,000,000
							E.L. DISEASE - POLICY LIMIT	$ 1,000,000
D	Prof Liab	N	N	AEC-9044114-05	5/1/2021	5/1/2022	Ea Claim/Agg $10mil/$20mil	
A	Bus Per Prop			7014856125	5/1/2021	5/1/2022	Limit $19,429,515	
A	Leased/Rented Equip			7014900785	5/1/2021	5/1/2022	Limit $100,000	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Excess/Umbrella policy follows form over underlying policies: General Liability, Auto Liability & Employers Liability (additional insured and waiver of subrogation apply). Professional Liability - Claims made form, defense costs included within limit.

CERTIFICATE HOLDER

17538140
WHPacific,Inc.
6501 Americas Parkway NE
Suite 400
Albuquerque NM 87110

CANCELLATION See Attachments

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Pay Equity Reporting Form PE10-249, Version 03-2018

Company name:	NV5, Inc
Mailing address line 1:	200 South Park Rd
Mailing address line 2:	Suite 350
City, state, zip code:	Hollywood, FL 33021
Phone:	858.385.2227
E-mail address:	elena.galin@nv5.com
FEIN number:	94-2706173
EAN number:	0
SUPPLIER ID:	0

Job Category	No. Females	No. Males	Gap (Absolute %)
1.1 Exec/Senior Level Officials/Mgrs	0	1	N/A
1.2 First/Mid Level Officials/Mgrs	3	10	6.75%
2 - Professionals	6	19	7.91%
3 - Technicians	6	14	9.75%
4 - Sales Workers	0	0	N/A
5 - Office and Admin. Support	3	2	31.12%
6 - Craft Workers (Skilled)	0	0	N/A
7 - Operatives (Semi-Skilled)	0	0	N/A
8 - Laborers (Unskilled)	0	0	N/A
9 - Service Workers	0	0	N/A

Total # Job Categories With No Employees	5
Total # Female Only Job Categories	0
Total # Male Only Job Categories	1
Total # Females (all categories)	18
Total # Full Time Females	11
Total # Part Time Females	7
Total # Males (all categories)	46
Total # Full Time Males	34
Total # Part Time Males	12
Total # Employees	64
Female % Workforce	28.13%
Male % Workforce	71.88%
Calculated Weighted Average Gap	**10.10%**

Submit only this form

Must be signed by the principal executive of the company: RFP#: 7540.00

Signature certifies that all employees working in New Mexico are included, the data is for the current calendar year, and any challenges to your information may require you to get third party verification at your own expense.

MaryJo OBrien, CAO		January 6, 2021
Name and title, printed	Signature	Date submitted

WHPacific
AN NV5 COMPANY
6501 Americas Pkwy NE, Ste 400
Albuquerque, NM 87110