

AGR 15-4223
Parson's Brinckerhoff
Vendor Number 22204
On-Call Engineering Services

Task Order No.: Five (5)

Project Title: Airport Fuel Farm Bidding & Construction Management

Org. Code #: 68173432 (Airport Fund/Capital Outlay/Capital Grant)

Project Manager Assigned: Geoff Rodgers, Airport Manager

Phone: (505)709-8687

Contract Administrator: Eric Ulibarri, Acting County Engineer

Department: Public Works

Vendor Contact: Meghan Myers, WSP

Location of Work: Los Alamos Airport

Scope of Work including Estimated Quantities: See attached Scope of Services

Start Work Date: Upon Notice to Proceed; estimated July 2022

Attachments: WSP – Professional Scope of Services w/Exhibit A (Cost Summary)

Estimated Total Cost: (not to exceed amount): \$243,785.96 plus Applicable NMGR

SIGNATURES:

Original Task Order

Geoff Rodgers **Date**
Project Manager

WSP USA, Inc. **Date**

Eric Martinez **Date**
Deputy Public Works Director

Juan Rael **Date**
Public Works Director

Steven Lynne **Date**
County Manager (if TO value is \$10,000 or more)



June 6, 2022

PROFESSIONAL SCOPE OF SERVICES

Los Alamos County Airport
LAM Fuel Farm
Construction Support Services

WSP USA Inc. (WSP) is submitting this proposed Scope of Services to Los Alamos County to cover bidding and construction support services for the new Fuel Farm project designed by WSP. This proposal includes the following sections:

Project Description
Scope of Services
Deliverables
Schedule
Assumptions and Exclusions
Compensation
Responsibility of Los Alamos County Airport

Sincerely,

Craig Corey
AVP / Local Business Leader, New Mexico

Mohammad Azarbajani, Ph.D., PE
Sr. Lead Consultant, Structural Engineer

Project Description

Los Alamos County Airport (LAM) is owned and operated by the County of Los Alamos. The Airport is located on the north side of New Mexico State Road 502, with its sole runway, Runway 9/27, running parallel to the road. A terminal building is located on the northeast side of the airfield. The airport services general aviation aircraft.

The need and justification for a new fuel farm is described in detail in the LAM Airport Master Plan. The current fuel farm consists of a single underground fuel storage tank located to the northwest of the airfield. The new fuel farm will consist of two 12,000 gallon above-ground fuel storage tanks with a self-service point-of-sale dispensing system. One tank will hold 100LL avgas and the other Jet A fuel. The new fuel farm will be located in the concrete apron area to the east of the terminal building.

The new fuel farm has been designed and is now moving into the bidding and construction phase.



Scope of Services

Management and Meetings

WSP's Project Manager (PM) will provide regular project oversight and set up and monitor the project amendment progress in our internal system. The PM will coordinate with subconsultants to assure reviews of documents and answers to questions during bidding and construction are received in a timely manner. The PM will also engage in regular communication with the LAM Airport Manager.

WSP PM or design leads will attend up to ten (10) virtual meetings with the client and/or contractor to coordinate bidding support, review construction progress, discuss construction issues or questions, and resolve design questions or conflicts.

Bidding Support

Procurement Support

WSP will assist during the bidding and pre-construction process by participating in the pre-bid conference and the pre-construction conference (up to 3 attendees at each), responding to bidder questions, coordinating and issuing addenda (up to three), performing bid evaluations, and providing review of LAM recommendation for contract award to the LAM Airport Manager.

Issued for Construction (IFC) Package

WSP will review RFIs and if needed, update the design IFC Package based on changes resulting from approved RFI responses from the procurement period.

Construction Management

Specialized Inspection Services

WSP will provide personnel for specialized inspection services on the project. It is assumed that one inspector will be needed on-site part-time during the primary construction tasks. These tasks include subgrade preparation, construction of the concrete pad to support the new fuel tanks (concrete and reinforcing), installation of bollards, construction of new drainage infrastructure, relocation of the sewer line, construction of all new electrical infrastructure (interior and exterior), and installation of the new fuel tanks and drainage pipes and plugs. It is assumed that part-time specialized inspection services will be needed on-site for up to 6 months once initiated.

Materials Testing

WSP will coordinate materials testing with Terracon.

SWPPP Inspections

If required, inspections of the erosion control devices will be performed upon installation and thereafter up to once every 14 calendar days and after a construction site rain event resulting in 0.25 inches or greater.



Construction Administration Processing

Construction manager will receive RFIs, shop drawings, questions, etc. from the contractor, process/log them and distribute to design team for review and response. Construction manager will then issue responses back to LAM Airport and the contractor.

Final Punch List

Construction manager will perform site visit to assist in development of final punch list for contractor.

Mechanical Equipment Commissioning

See attached scope of work provided by Roundtable Technical Resources for services provided for the commissioning of the new tanks and mechanical equipment.

Construction Administration

WSP PM and design team will provide construction administration support services during construction of the fuel farm project. Work will be performed as needed upon written request of the County or Airport and may include the following activities:

General Technical Consultation

Provide technical expertise to address construction issues as required

Respond to Contractor Requests for Information (RFI's)

Provide clarification, supplemental information, or interpretation of design intent in response to contractor RFI's. WSP will assist with up to six (6) RFI's.

Review of Shop Drawings and Contractor Submittals

Review and provide comments on shop drawings and contractor-supplied information. Engineer's review of Contractor's submittals is only for the limited purpose of checking for general conformance with the design concept of the project. The review is not for determining the accuracy and completeness of details or verifying dimensions and quantities. The approval of the shop drawings and/or submittal does not indicate the Engineer's approval of Contractor's means and methods, technique, sequence or safety precautions and procedures. WSP will assist with up to 20 shop drawings and submittals.

Review of Geotechnical Construction, Geotechnical Testing, and RFI's

See scope of work provided by Terracon for geotechnical services provided during construction. Utility

Coordination

Review and provide comments and coordination for utility relocation efforts to address construction issues as required.

Review of Contractor Proposed Cost Savings and Price Increases

Review and provide comments on cost savings and price increase proposals from the Contractor. WSP will review up to two (2) cost savings and/or price increase proposals.



Engineering for Design Changes

Provide engineering design/analysis to develop or evaluate proposed design changes. WSP will provide up to two (2) design changes.

Evaluate Change Orders

WSP will assist the client with up to three (3) change orders. Record Drawings

Produce record drawing set based on contractor's red-lined as-built set.

Deliverables

WSP will provide the following deliverables:

IFC Package

WSP will submit updated plans and specifications to make corrections based on questions from contractors prior to construction. This will be limited to one updated set.

Record Drawings

WSP will submit one updated set of as-built drawings after construction is complete which will incorporate the contractor's red-lines.

Responses to Requests for Information (RFIs)

WSP will reply to RFIs during bidding within two (2) business days of receipt. WSP will reply to RFIs during construction within five (5) business days of receipt.

Reviews of Shop Drawings and Submittals

WSP will provide reviews of shop drawings and contractor submittals within two (2) weeks of receipt.

Schedule

The project schedule will be in accordance with the bidding and construction of the project. The total length of services provided by WSP, including bidding support, construction management, and submitting the IFC package and record drawings, will be a maximum of one (1) year.

Assumptions and Exclusions

1. In-person meetings and field visits will not be required for out-of-town team members, apart from specialized inspection personnel.
2. Parttime inspection services will be required for up to 6 months once initiated.
3. NEPA documentation will not be required due to the project being fully state-funded.



Compensation

See attached Fee Proposal.

Responsibility of Los Alamos County Airport

1. A LAM design representative with complete authority to transmit instruction and information, receive information, interpret policy, and define decisions will be available to work with WSP throughout the project.
2. With 48 hours notice, LAM will authorize WSP and its subconsultants access to the site.
3. Protection of WSP-supplied digital information or data, if any, from contamination, misuse, or changes.

Exhibit "A"

TASK ORDER COST SUMMARY

AGR15-4223

On Call Emergency Engineering Services

ENGINEERING COST SUMMARY				
PART 1 - GENERAL				
1. NAME OF PROJECT:		LAM Fuel Farm		2. PROJECT #:
3. NAME OF CONTRACTOR:		WSP USA Inc.		4. DATE OF PROPOSAL:
5. ADDRESS OF CONTRACTOR:		6. TYPE OF SERVICE TO BE FURNISHED:		
2440 Louisiana Blvd NE		Construction Support Services		
Suite 400		A. WORK ELEMENT:		
Albuquerque, NM 87110		Construction Support		
PART 2 - COST SUMMARY				
BASIC SERVICES				
7. DIRECT LABOR (specify categories)	ESTIMATE D HOURS	HOURLY RATE	ESTIMATED COST	TOTALS
Admin Asst I	-	\$65.32	\$0.00	
Admin Supv III	-	\$93.62	\$0.00	
Asst Engineer	-	\$90.09	\$0.00	
Asst Planner	-	\$79.49	\$0.00	
Construction Coordinator II	-	\$84.96	\$0.00	
Engineer I	166.00	\$109.94	\$18,250.04	
Engineer II	70.00	\$126.40	\$8,848.00	
Inspector II	-	\$97.29	\$0.00	
Planner I	-	\$102.45	\$0.00	
Prin Technical Specialist	-	\$172.30	\$0.00	
Sr Area Mgr	8.00	\$289.08	\$2,312.64	
Sr Engineer	-	\$162.16	\$0.00	
Sr Inspector	-	\$93.83	\$0.00	
Sr Planner	-	\$120.15	\$0.00	
Sr Prin Technical Specialist	196.00	\$189.22	\$37,087.12	
Sr Supv CADD Designer	-	\$147.81	\$0.00	
Sr Supv Engineer	80.00	\$195.02	\$15,601.60	
Sr Technical Specialist	-	\$157.46	\$0.00	
Supv Construction Engineer	80.00	\$176.63	\$14,130.40	
Supv Engineer	-	\$170.03	\$0.00	
Supv Inspector	792.00	\$105.98	\$83,936.16	
Supv Planner	-	\$150.29	\$0.00	
Supv Project Accountant	-	\$170.23	\$0.00	
Supv Technician	-	\$113.51	\$0.00	
Systems Operator III	-	\$111.32	\$0.00	
Technical Specialist II	-	\$127.75	\$0.00	
Tech II	-	\$92.81	\$0.00	
DIRECT LABOR TOTAL:				\$ 180,165.96
SUPPLEMENTAL SERVICES				
8. SUBCONTRACTS (Identify & purpose)			ESTIMATED COST	
Terracon Consultants, Inc.			\$18,460.00	
Roundtable Technical Resources (RTTR)			\$27,000.00	
SUBCONTRACTOR TOTAL:				\$45,460.00
9. TRAVEL			ESTIMATED COST	
A. Mileage: Miles 3900 \$0.625			\$2,437.50	
B. Per Diem: (Ref. LAC per diem policy) 98 \$151.00			\$14,722.50	
TRAVEL TOTAL:				\$ 17,160.00
10. OTHER REIMBURSABLE COSTS			ESTIMATED COST	
Mobile Hot Spot			\$500.00	
Reproductions			\$500.00	
OTHER REIMBURSABLE TOTAL:				\$ 1,000.00
SUBTOTAL ITEMS 7-10:				\$ 243,785.96
11. GROSS RECEIPTS			7.750%	\$ 18,893.41
12. TOTAL PRICE				\$ 262,679.37
13. SIGNATURE OF PREPARER		OWNER'S REVIEW BY	TITLE	



WSP Fee Proposal

LAM New Fuel Farm - Construction Support Services

WBS Task Description	Sr Area Mgr	Sr Supv Engineer	Sr Prin Technical Specialist	Supv Construction Engineer	Supv Inspector	Engineer I	Engineer II	Supv Project Accountant	Total Hours	Total Cost
	\$ 289.08	\$ 195.02	\$ 189.22	\$ 176.63	\$ 105.98	\$ 109.94	\$ 126.40	\$ 170.23		
1 Management and Meetings	8	12	36						56	\$ 11,464.80
1.1 Project Oversight and Administration	2		12						14	\$ 2,848.80
1.2 Subconsultant Coordination			2	8					10	\$ 1,903.80
1.3 LAC/LAM Coordination	4			8					12	\$ 2,670.08
1.4 Virtual Meetings	2	10	8						20	\$ 4,042.12
2 Bidding Support		20	24			40	20		104	\$ 15,367.28
2.1 Procurement Support			8	8			8		24	\$ 4,085.12
2.2 IFC Package			12	16		40	12		80	\$ 11,282.16
3 Construction Management				80	780				860	\$ 96,794.80
3.1 Part Time Inspector					780				780	\$ 82,664.40
3.2 Additional Support				80					80	\$ 14,130.40
4 Construction Administration		48	136		12	126	50		372	\$ 56,539.08
4.1 General Technical Consultation			64						64	\$ 12,110.08
4.2 Respond to Contractor RFIs			12	8			16		36	\$ 5,876.40
4.3 Review of Shop Drawings and Submittals		6	6			80	4		96	\$ 11,606.24
4.4 Review of Geotech Construction, Testing, RFIs			8		12				20	\$ 2,785.52
4.5 Utility Coordination		8	4						12	\$ 2,317.04
4.6 Review of Contractor Proposed Cost Savings			8				8		16	\$ 2,524.96
4.7 Review of Proposed Price Increases of Decreases			8				8		16	\$ 2,524.96
4.8 Engineering for Design Changes		16	8				8		32	\$ 5,645.28
4.9 Evaluate Change Orders		6	6			6	6		24	\$ 3,723.48
4.10 Record Drawings			16			40			56	\$ 7,425.12
WSP Labor Totals	8	80	196	80	792	166	70		1392	Subtotal \$180,165.96

Subconsultants	
Terracon Consultants, Inc.	\$18,460.00
RoundTable Technical Resources (RTTR)	\$27,000.00
Subtotal	\$45,460.00

Direct Expenses	
Mileage	\$2,437.50
Per Diem	\$14,722.50
Mobile Hot Spot	\$500.00
Reproductions	\$500.00
Subtotal	\$18,160.00

Total Cost without Tax	SUBTOTAL	\$243,785.96
NM GRT (7.75%)	NMGRT	\$ 18,893.41
TOTAL	TOTAL	\$262,679.37

June 9, 2022

Ms. Meghan Myers, P.E.
Sr. Lead Consultant, Structural
WSP USA
6100 Uptown Blvd, Suite 700
Albuquerque, NM 87110

Re: Proposal for bid phase & construction phase engineering services:
Aviation Bulk Fuel Facility at
Los Alamos Airport (LAM)
1040 Airport Road, Los Alamos NM 87544

Dear Ms. Myers:

Further to recent email discussions, please accept our proposal for the Bidding and Construction phase engineering services for the above referenced fueling facility project at Los Alamos Airport (LAM), located in Los Alamos County, New Mexico.

Background:

WSP USA (hereafter referred to as "WSP") has requested a proposal from Roundtable Technical Resources (hereafter referred to as "RTTR") for Bidding and Construction phase engineering support as it relates to the mechanical design previously provided for this project.

Supplied Data & Assumptions:

The intent of this proposal is to provide Bidding & Construction phase services as noted above to assure that the facility operator is in receipt of a fully functional, operationally appropriate, fuel dispensing installation which will operate and perform as requested by the facility operator.

1. It is assumed that RTTR will be asked to attend regularly scheduled conference calls throughout the bidding and construction process. For the purposes of this proposal, we have assumed a total of 10 conference calls. If additional conference call attendance is required and or requested, attendance at these additional calls will be billed at time and material in accordance with the attached rate sheet.
2. It is assumed that site visits will not be required. If requested or required by WSP, the facility operator, or the authorities having jurisdiction require a site visit, the time and travel expenses required will be billed at time and material in accordance with the attached rate sheet.

3. It is assumed that RTTR's involvement will be limited to the mechanical design prepared previously by N.D. Eryou PhD, PE Consulting Engineer.

Engineer's Scope of Work:

1. Bidding and Construction phase Oversight & Coordination:

- a. RTTR shall review and respond to bidding contractor RFI's and Product review submittals in a timely fashion.
- g. RTTR shall attend design team conference calls throughout the bidding & construction phases of this project. This proposal has accounted for up to 10 conference calls per initial discussions. If additional calls are required or requested, our attendance will be performed & billed as Time and Materials in accordance with the attached Fee Schedule.

2. Site Inspections & Witness Commissioning & Prepare Commissioning Report:

2 site inspections have been assumed as part of this proposal. The first visit will be a progress inspection to witness the progress of the equipment installation, and the second site inspection being provided to witness the commissioning of the fueling system. Based on the results of the commissioning inspection RTTR will prepare a report for the facility operator indicating compliance with design specifications and or any deficiencies requiring further attention.

Engineering, Construction Phase Management:

Engineering services will be billed weekly as per the attached rate sheet up to the not to exceed limit of **\$27,000**. Printing and Shipping disbursements (if required) will be billed as additional costs in accordance with the attached rate sheet. RTTR will not be responsible for permitting or registration fees.

Out of Scope Work:

Any engineering work not included in the project Scope of Work herein and caused by conditions currently unknown to RTTR will be considered out-of-scope work. Such services, if requested by RS&H or the facility operator would be quoted on a time and material basis as per the attached rate sheet. Out of Scope work will be performed only upon written approval (Change Order) from RS&H. RTTR understands that this proposal was based upon a full turnkey operation and that Change Orders will not be requested unless there are very unusual circumstances during the project.

**Colorado Springs Office**

660 Southpointe Court
Suite 300G
Colorado Springs, CO 80906
Phone: (801) 541-6685
engineering@rtsglobal.com

Central Florida Office

1460 Breezy Way
Spring Hill, FL 34608
Phone: (352) 684-7275
Fax: (800)660-6724
Alex.nomikos@rtsglobal.com

We appreciate the opportunity to submit this proposal and look forward to working with RS&H on this project, upon approval of this proposal and receipt of authorization to proceed by email.

Sincerely,

A handwritten signature in black ink, appearing to read "Alex Nomikos", with a stylized flourish at the end.

Alex Nomikos – Engineering Manager
Roundtable Technical Resources, LLC

WSP Representative

Representative Signature

Date

Ref: RTTR-LAM_NM_Bid & Const Prop_060922

Representative Printed Name

Date

Roundtable Technical Resources 2022 fee schedule

Principal Engineer	\$275 per hour
Senior MEP Engineer	\$200 per hour
Senior Structural Engineer	\$200 per hour
Manager of Innovation Services	\$175 per hour
Senior Civil Engineer	\$175 per hour
Senior Electrical Engineer	\$175 per hour
Fire Suppression Engineer	\$250 per hour
Design Manager	\$175 per hour
Site Inspection Engineer.....	\$200 per hour
Site Inspection	\$175 per hour
Manager of Field Services.....	\$175 per hour
GIS Operator	\$150 per hour
3D CAD Operator	\$125 per hour
2D CAD Operator	\$100 per hour
2D CAD Design	\$150 per hour
Clerical/Administrative	\$50 per hour

PRINTS AND MISCELLANEOUS EXPENSES

Photo Copies (letter Size).....	\$0.25 per sheet
11' x 17".....	\$1.35 per sheet
D size prints.....	\$3.25 per sheet
E size prints.....	\$3.85 per sheet

All courier, postage charges and disbursements for travel or subcontract services will be billed at cost plus 15%.

PE Sealing of Documents

Unless otherwise noted, a minimum fee of \$500 applies to the provision of a Professional Engineer seal on individual drawings, reports, letters and other documentation. This fee is generally applied on a per document/page/sheet basis. For large sets of engineering drawings, a flat fee will be charged for PE sealing each set

Travel Time

Travel time is charged on a portal to portal basis, except that the first 45 minutes of driving time incurred during normal commuting time (at beginning and end of the business day) shall not be chargeable. The maximum travel charge on any calendar day is 12 hours. Travel time is charged based on scheduled and reasonable transit and layover times only and the client is not charged for delays.

Automobile mileage will be billed at \$0.60 /mile.

Reimbursable Expenses

Business reimbursable expenses include but are not necessarily limited to: insurance costs (naming additional insureds, increased limits, waivers, endorsements, etc.); travel and living expenses; identifiable communications, shipping and reproduction costs; identifiable drafting and stenographic supplies; expendable software; and any materials, equipment and supplies purchased or rented specifically for the project.

The client shall be responsible for all deposits and prepaid travel costs related to appointment/visit cancellations and postponements. Subcontractor invoice costs will be increased by 15% to compensate for Roundtable Technical Resources management and administrative costs.

The above rates are not applicable to expert witness work.

Payment Schedule

Payment terms are net 30 days from the invoice date; invoices not paid within 30 days shall be subject to interest from the 31st day, at a rate of 1.5% per month (18% per annum). Any expenses incurred by Roundtable Technical Resources in collecting payment (attorney, collection agency fees, etc....) shall be paid by the client.

Roundtable Technical Resources shall pay all applicable U.S. federal taxes for goods and services delivered in the United States of America. Clients shall pay all applicable state and local taxes for goods and services delivered in the United States of America. The client shall pay all applicable federal, state and local taxes and fees for goods and services delivered outside the United States of America.



June 7, 2022

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

Attn: Ms. Meghan M. Myers, P.E.
D: (505)-878-6598
E: Meghan.Myers@wsp.com

Re: Proposal for Inspection, Observation, and Testing Services
Los Alamos County Airport (LAM) Fuel Farm
1040 Airport Rd. Los Alamos, NM 87544
Terracon Proposal No. P66221148

Dear Ms. Myers:

Terracon Consultants, Inc. (Terracon) appreciates the opportunity to submit this proposal to provide construction materials testing and special inspection services for the Los Alamos County Airport (LAM) Fuel Farm project. Our proposal includes an outline of the project information, our proposed scope of services, estimated quantities, unit rates, and a total estimated fee for our services.

1.0 CAPABILITIES AND EXPERIENCE

Construction Materials Testing & Special Inspection Services

Our team of inspectors and technicians are experienced with providing materials testing, inspections and/or observations of concrete, soils, aggregate, masonry, structural steel, foundations, fireproofing, and asphalt pavement in the local area and are familiar with the recognized building jurisdiction requirements.

Laboratory Capabilities

Our laboratory is accredited by AASHTO Re:source which is recognized by ASTM E329 Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection. The scope of accreditation includes the field of Soils, Aggregates, Portland Cement Concrete, and Hot Mix Asphalt. As a requirement of accreditation, we regularly participate in the Proficiency Sample Programs of both AASHTO Re:source and the Concrete and Cement Reference Laboratory (CCRL). Our office includes a fully equipped laboratory and employs engineering technicians and special inspectors

- Accredited and Inspected by AASHTO Re:Source
- Accredited and Inspected by Concrete and Cement Reference Laboratory (CCRL)

Proposal for Inspection, Observation, and Testing Services



Los Alamos County Airport (LAM) Fuel Farm ■ 1040 Airport Rd. Los Alamos, NM 87544

June 7, 2022 ■ Terracon Proposal No. P66221148

certified by the American Concrete Institute (ACI) and the International Code Council (ICC). We provide a rigorous internal training program where our staff are evaluated in specific field and laboratory test procedures internal Terracon auditors and external agencies.

2.0 PROJECT INFORMATION

Our understanding of the required construction materials testing and special inspection services for this project is based upon the following information:

- 70% Civil Sheets by WSP USA Inc., dated 7/30/2021;
- 10% Structural Sheets by WSP USA Inc., dated 7/30/2021; and
- Geotechnical report by Terracon, Project No. 66195186, dated 4/16/2020

Pertinent project information is summarized below:

ITEM	DESCRIPTION
Location	Northeast of terminal building located at 1040 Airport Rd. in Los Alamos, NM.
Size	The site encompasses a gross area of 6000 square feet.
Project Description	We understand the project will consist of the demolition and reconstruction of some paving and constructing of a new fuel island.
Geotechnical Investigation	The geotechnical report by Terracon, Project No. 66195186 dated 4/16/2020.
On-site Improvements	Appurtenant site work includes some utility improvements.
Off-site improvements	Off-site improvements are not anticipated in this scope of work.
Anticipated Schedule	A construction schedule was not provided to Terracon prior to the issuance of this proposal, therefore our assumptions on the schedule should be considered an estimate until we can review the contractor's schedule.

3.0 SCOPE OF SERVICES

Terracon proposes to provide testing and inspection services as summarized below. We understand that the contractor is entirely responsible for his own quality control testing and such services are not included in our scope of work.

These services will be provided on an "as requested" basis when scheduled by your authorized representative.

ITEM	DESCRIPTION
Over-excavation & Backfill	During over-excavation operations, observations of the excavated material stockpiles and the condition of soils found at the bottom of the excavations will be performed. We will observe moisture conditioning and backfill operations and perform moisture/density tests on the backfill materials for utility backfill and concrete mat foundation.
Earthwork	Terracon will obtain samples for laboratory tests, perform in-place field density testing and perform periodic observations for slab subgrade, utility backfill, and pavement subgrade and base course.
Reinforcing Steel	Prior to concrete placement, reinforcing steel for concrete mat foundation will be observed by Terracon. Our work will include the following: <ul style="list-style-type: none">■ Observe specified size, grade, and condition of reinforcing steel; noting locations, spacing and quantity of reinforcing;■ Observing concrete cover and clearance.
Concrete	Testing and sampling will be performed by Terracon for the concrete used for concrete mat foundation construction. The concrete will be tested for slump, air content, and temperature at the time of placement. Unit weight testing will not be performed unless specifically requested. Testing will be performed in general accordance with project plans and specifications. <ul style="list-style-type: none">■ 1 set of 5 (4-inch by 8-inch) cylinders for each 50 cubic yards or fraction thereof
Asphalt Paving	Terracon will observe the condition of aggregate base prior to placement of asphalt pavement. A qualified technician will acquire asphalt samples during initial placement for laboratory testing/verification and will test the asphalt placement for thickness, asphalt content and gradation, maximum specific gravity, and in-place unit weight (as determined by cores). We will also provide the paving contractor with preliminary nuclear gauge density information during asphalt placement.

Proposal for Inspection, Observation, and Testing Services



Los Alamos County Airport (LAM) Fuel Farm ■ 1040 Airport Rd. Los Alamos, NM 87544

June 7, 2022 ■ Terracon Proposal No. P66221148

ITEM	DESCRIPTION
Project Management	<p>A project manager will be assigned to the project to review the daily activity and assist in scheduling the work. Field and laboratory tests will be reviewed prior to final submittal. The project manager will be responsible for the project budget, communicating with the contractor regarding schedule, deviations, and documenting the resolution of outstanding deviations.</p> <p>To help create a good working relationship with the contractor and for the contractor to better understand our scope of work for the project, we request that Terracon be invited to preconstruction meetings prior to each phase of construction.</p>

Scope Assumptions/Exclusions:

- At the time this proposal was prepared, we were not provided with 100% Construction Documents, Project Specifications or a Construction Schedule. Once this information becomes available, we request to review and revise our proposal accordingly.
- We have assumed the contractor will stake the corners and provide the approximate elevation of the ground surface (as it changes) to facilitate identification of test locations and elevations.
- To reduce costs, we have also assumed that we can use the contractor's facilities for storing testing supplies such as concrete cylinder molds, wheelbarrows, and other equipment.
- Add more as needed

Commitment to Timely Report Turnaround:

We understand the importance of report turnaround to our clients, and we are committed to delivering test results on a timely basis as well as the following reporting standards:

- Failing tests or non-conformance items will be communicated to the designated parties prior to leaving the site.
- Final reports with non-conformances (Deviation Reports) will be provided within 24 hours of testing.
- Final reports without non-conformances will be provided within five business days.
- Final laboratory test reports will be provided within two days of test completion.

Proposal for Inspection, Observation, and Testing Services



Los Alamos County Airport (LAM) Fuel Farm ■ 1040 Airport Rd. Los Alamos, NM 87544

June 7, 2022 ■ Terracon Proposal No. P66221148

Terracon Field Representative:

In addition to the above services, our field personnel will provide the following services during their visit:

- Check in with the project general superintendent upon arrival on-site.
- Confirm that current approved construction documents are available during our visit.
- Notify the general contractor of our field observations and test results prior to leaving the site.
- Submit an electronic draft report to the Terracon project manager for review prior to leaving the project site.
- Our field personnel have the right to decline work if they believe the conditions are not safe.

Scheduling of Services:

We request that the following information be passed on to whom will be responsible for scheduling our services.

- Scheduling testing services must be requested no later than 12:00 pm on the business day preceding the work.
- Cancellation of services should be done prior to a Terracon representative mobilizing to the project. Failure to do so will result in a cancellation fee.
- Terracon will not be responsible for tests that are not performed due to a failure to schedule our services on the project.
- Testing and observations will only determine compliance with project specifications at the test locations, at the time our services are performed.
- Your representative who is responsible for scheduling our services is also responsible for knowing what items require testing or inspection during construction. The representative should ensure that we are notified for our services prior to these items becoming altered or inaccessible and thereby prohibiting testing or inspection. Terracon will not be responsible for untested or uninspected items as a result of your representative failing to notify us with 24-hours advance notice or failing to notify us at all.

4.0 COMPENSATION

Based on the project information available for our review, our lump sum/not-to-exceed/time and materials estimated budget to perform the proposed scope of services is **\$18,460**. A summary of our unit rates, estimated quantities, and the resulting costs is included on the attached Fee Estimate. Fees for services provided will be based on the unit rates shown in that exhibit. Please note that this is only a budget estimate and not a not-to-exceed price. Any additional out of scope items will be performed within accordance with our current fee schedule.

Many factors, including those out of our control, such as weather and the contractor's schedule including overtime and weekend work, and the need for re-testing will dictate the final fee for our services. We will not exceed our budget without first notifying you and providing a summary of work performed to date and remaining work. We will track the costs of re-testing, stand-by time, and cancellations separately.

For purposes of our proposal, overtime is defined as all hours worked above 8 hours per day, Saturday, Sunday and Terracon recognized holidays. Overtime rates will be 1.5 times the hourly rate quoted. All charges are portal to portal from our local office. A minimum of 3 hours will be charged for each site visit.

5.0 ASSUMPTIONS

- We have assumed that contractors on the site will work a single shift, typical schedule of 5 days per week;
- An out-of-scope charge at the applicable unit rate will be applied for all stand-by time and/or time spent on activities which are not cancelled with prior notice;
- Staff time, laboratory testing and extra trips required for re-testing and re-inspections will be denoted on the monthly invoices and be considered out-of-scope items and are not included in the above estimated budget.

Proposal for Inspection, Observation, and Testing Services

Los Alamos County Airport (LAM) Fuel Farm ■ 1040 Airport Rd. Los Alamos, NM 87544

June 7, 2022 ■ Terracon Proposal No. P66221148



6.0 AUTHORIZATION

If this proposal is found acceptable, we assume that WSP will send a Professional Services Subcontract Agreement for both parties to sign and authorize Terracon to start work.

We appreciate the opportunity to provide this proposal and look forward to working with you. Please give us a call if you have any questions or comments regarding this proposal.

Sincerely,

Terracon Consultants, Inc.

A handwritten signature in black ink, appearing to read 'Shannon K. Dever'.

Shannon K. Dever
Assistant Project Manager

A handwritten signature in blue ink, appearing to read 'Michael E. Anderson'.

Michael E. Anderson, P.E.
Principal Engineer

Copies to: Addressee (via e-mail)

Enclosures: Fee Estimate

Materials Testing and Special Inspections Cost Spreadsheet
Los Alamos County Airport
Proposal # P66221148

SERVICES	RATES	NOTES	UNITS	TOTAL
Earthwork				
Soils Technician	\$ 70 Per Hour		60	\$ 4,200
Modified (Proctor)	\$ 225 Each		2	\$ 450
Sieve Analysis	\$ 145 Each		2	\$ 290
Atterberg Limits	\$ 125 Each		2	\$ 250
Trip Charge	\$ 180 Per Trip		15	\$ 2,700
Sub-Total				\$ 7,890
Reinforcing Steel & Concrete				
Concrete Testing	\$ 70 Per Hour		20	\$ 1,400
Compressive Strength of Concrete	\$ 125 Per Set	Set of 5	4	\$ 500
Compressive Strength Sample Pick Up	\$ 180 Per Trip		4	\$ 720
Reinforcing Steel Inspection	\$ 85 Per Hour		4	\$ 340
Trip Charge	\$ 180 Per Trip		5	\$ 900
Sub-Total				\$ 3,860
Asphalt Concrete Paving				
Asphalt Technician	\$ 70 Per Hour		20	\$ 1,400
Asphalt Gyratory Test (2 Specimens) Voids and Unit Weight	\$ 225 Each		4	\$ 900
Theoretical Maximum Specific Gravity	\$ 145 Each		4	\$ 580
Asphalt Ignition/Gradation	\$ 230 Each		4	\$ 920
Trip Charge	\$ 180 Per Trip		5	\$ 900
Sub-Total				\$ 4,700
Project Management				
Project Manager	\$ 160 Per Hour		8	\$ 1,280
Principal Engineer	\$ 185 Per Hour		2	\$ 370
Project Admin, Dispatch	\$ 90 Per Hour		4	\$ 360
Sub-Total				\$ 2,010
Total Cost Estimate without tax				\$ 18,460