GRANT COUNTY
RESOLUTION NO. R-25-68

A RESOLUTION AUTHORIZING EXPENDITURE OF FUNDS FOR ENGINEERING SERVICES UNDER EXISTING ON-CALL CONTRACT WITH BOHANNAN HUSTON FOR THE CHESTNUT BRIDGE

WHEREAS, Grant County has an existing on-call services contract with BOHANNAN HUSTON for engineering and related professional services; and

WHEREAS, additional services are required for the Chestnut Bridge project to ensure proper planning, design, and execution; and

WHEREAS, funding in the amount of $233,907.01 is available and necessary for the completion of these services; and

WHEREAS, the County Commission has determined that the expenditure of funds for these services is in the best interest of the County and its residents;

NOW, THEREFORE, BE IT RESOLVED by the Board of County Commissioners of Grant County, that:

1. The expenditure of $233,907.01 for additional engineering services under the existing on-call contract with Bohannan Huston for the Chestnut Bridge is hereby approved.

2. The County Commission authorizes the County Manager to take all necessary steps to facilitate the expenditure and execution of the services as outlined.

PASSED AND APPROVED this 11th day of December 2025, by the Grant County Commission.

BOARD OF GRANT COUNTY COMMISSIONERS
GRANT COUNTY, NEW MEXICO:

Chris M. Ponce, Chairman

Eloy H. Medina, Vice Chairman

Nancy Stephens, Member

Eddie M. Flores, Member

Thomas L. Shelley, Member

Attest:

Connie Holguin, Clerk

Bohannan Huston
great people supporting great communities

New Mexico:
Albuquerque | Las Cruces
Colorado:
Denver | Grand Junction

800.877.5332
bhinc.com

November 12, 2025

Joseph Holguin
Planning & Capital Projects Director
1400 Highway 180 East
P. O. Box 898
Silver City, NM 88062

Re: Proposal for Chestnut Bridge Project
Task Order under On-Call General Engineering Services

Dear Mr. Holguin:

Bohannan Huston, Inc. is pleased to submit this proposal for the Chestnut Bridge Project. A Fee Estimate with further details is attached, as Exhibit A.

The fee is estimated as **$217,335.20,** plus applicable gross receipts tax.

If this proposal is acceptable, please provide us with a written work authorization in accordance with our Grant County General Engineering Services Agreement.

Thank you for allowing us to serve you once again, we enjoy working with you. If you have any questions or comments on the scope of work or wish to discuss our fee estimate, please do not hesitate to contact me at (505) 823-1000 or email me at LBrandenburg@bhinc.com.

Sincerely,

Kurt D. Thorson, PE
Senior Vice President
Traffic & Transportation
KDT/jlb/jma

Enclosures

cc: Logan Brandenburg, BHI – via email

PROJECT DESCRIPTION:
The Project Scope includes surveying and design engineering services to replace the existing Chestnut Street Bridge in the Lake Roberts Subdivision with a low water crossing. The existing bridge is located between Cottenwood Drive and NM 35 and is part of a gravel roadway system.

Basic services will include topographic survey, existing right-of-way determination, a limited drainage analysis and memo, engineering roadway design, construction drawings, technical specifications, engineer's opinion of probable construction cost, appropriate project clearances and project review and coordination with Grant County staff.

SCOPE OF SERVICES

TASK 1: Survey

Topographic Survey
Three control points will be established adjacent to the project area. A topographic survey will then be conducted for the area as requested. Enough data will be collected to support a one-foot contour interval. All planimetric and topographic features within the survey limits as shown will be mapped during the survey, including but not limited to grade breaks, drainage structures, fences, curb/gutter, edge of pavement/concrete, and visible utility features. Manhole invert depths and pipe sizes will be recorded for any sanitary or storm drain manhole within the survey limits if the survey crew is able to open the manhole cover safely. No manholes will be opened within roadways which require traffic control to open.

Boundary Determination
Title reports will be ordered for all of the lots adjacent to the survey limits. These reports shall include all instruments of ownership, plats, easements, or any other recorded documents pertaining to these lots. This information will be referenced and used to retrace the lot lines within the Lake Roberts Subdivision that are adjacent to the topographic survey limits.

Easement Exhibits
Up to six (6) exhibits will be developed which will be used as attachments to construction maintenance easement agreements. These exhibits will contain a metes and bounds legal description and site map which describe each proposed easement. The exhibits will be stamped and signed by the BHI surveyor of responsible charge. If an easement area is within two or more adjoining lots that are owned by the same entity, only one exhibit will be developed for that area/owner. The drafting of said agreements and the acquisition of rights-of-way is not included in this scope of work.

SURVEY DELIVERABLES:
Deliverable items will include:

a) Control Report certified by a New Mexico Professional Land Surveyor describing the survey control set onsite, including field methodology, coordinate system parameters, and datums used with a datasheet for each monument.

b) Civil 3D 2021 files including a 2D and 3D planimetric files, boundary file, and a surface file using BH NCS Standards
c) Digital orthoimage with projection file
d) Plats, deeds of record, site as-builts or other documents as may be obtained during the course of the survey
e) Up to six (6) easement exhibits (digital PDF delivery)

TASK 2: Geotechnical Services

Geotechnical Services will be performed by COZ Engineering, LLC as a subconsultant to Bohannan Huston, Inc. (BHI). COZ Engineering, LLC will perform a total of two (2) test borings up to 20 feet deep to provide adequate soil information for the project. An engineering report will be prepared containing information such as lab results, soil conditions, groundwater conditions, earthwork considerations, subgrade preparation, engineered fill recommendations, corrosivity data, etc. to supplement design of the new crossing.

TASK 3: Drainage Analysis and Memo

BHI will perform a drainage analysis at the existing Chestnut Street Bridge. This analysis will include quantifying the 10-year and 100-year peak flows in accordance with Grant County Drainage Standards using Simplified Peak methodology per the NMDOT Drainage Design Manual (2018). A hydraulic analysis will be performed evaluating the existing conditions of the bridge using one-dimensional HEC-RAS model. A site visit will be conducted to verify hydrologic assumptions and drainage conditions. BHI will develop up to 3 concepts for a replacement crossing and hydraulically analyze the recommended replacement with a one-dimensional HEC-RAS model. Conceptual plans will be prepared for Grant County review that will include proposed structure sizes and include expected limits of required outlet protection. BHI will provide a brief drainage memo documenting analysis in support of drainage conceptual design. Scope includes 2 virtual meetings with the County, addressing 1 round of comments on the memo, and finalizing the memo.

TASK 4: Drainage Design

Based on the approved design concept from Task 3, BHI will prepare design plans for the proposed new crossing and associated bed scour protection. The prepared drainage plan sheetss will be included in the overall roadway plan set and will include a plan and profile view layout, sections, and details. BHI will address Grant County comments on the 60% and 90% design plans. Estimated quantities associated with the drainage design will also be prepared at each submittal.

TASK 5: Preliminary Design

BHI will prepare 60% design level contract documents for reconstruction of the Chestnut Bridge crossing, including roadway approaches. Contract documents will include front end technical specifications and construction drawings. The drawings will include roadway centerline based on a best fit of the existing roadway alignment. Plans will be presented in plan and profile format on 11” x 17” sheets at 1”=20’ scale. Plans details will also include typical sections, structural details,

intersection layouts, permanent signing and striping, traffic control/detour plans, bid items with quantities, and other information necessary for a contractor to bid on the project.
Upon completion of the 60% construction drawings, BHI will submit them to utility companies for a courtesy review. It is assumed utility company contact information will be provided by the County and any relocations necessary will be the responsibility of the utility company. It is not the responsibility of BHI to determine whether utility conflicts exist with the proposed design.

TASK 6: Final Design

Upon completion of the Preliminary Design review, BHI will advance the design plans and contract documents to a 95%-level. This will include an updated Engineer's estimate of probable construction cost and updated design plans being sent to the utility owners.

Upon completion of the design review meeting, BHI will address any outstanding comments and final 100% certified project plans and contract documents will then be prepared for future bid advertising.

TASK 7: Project Management and Coordination

BHI will provide effective communication, coordination, meetings, and project management throughout the design of the project. This will include regular check-in meetings with Grant County held virtually.

BHI will also host two virtual design review meetings with the County to review the design and address any comments, concerns, or questions the County may have. These meetings will occur at the 60% design level and the 95% design level.

ASSUMPTIONS:

Notes / Assumptions:

- It is assumed that no environmental clearances will be required as part of this scope of work.
- No public involvement, stakeholder meetings, or meetings with individual property owners are included.
- Project funding is assumed to be local without any oversight or reviews with NMDOT. Furthermore, it is assumed that construction funding will be provided through similar programs and will not require T/LPA compliance.
- It is assumed that no work will be performed along NM Highway 35 and therefore no coordination with NMDOT will be required.
- It is assumed that roadside barriers (e.g. guardrail) are not needed and therefore are not included in this scope of work.
- This project will not analyze existing roadway geometry to ensure compliance with current roadway design standards. It is assumed that all roadway improvements will remain within

the existing roadway footprint and only minor adjustments to horizontal and/or vertical geometry will be considered. The addition of bicycle facilities and/or pedestrian facilities is excluded.

- It is assumed that this project will be bid as one phase and will only require one plan set. This scope of work does not include breaking the project out into separate phases or pieces.
- Utility relocations are not included in this scope of work. It is not the responsibility of BHI to determine whether utility conflicts exist with the proposed design. It is assumed that conflicts between existing utilities and the proposed design will be identified by the utility company and identification of any potential impacts and required relocations will be the responsibility of the utility owner prior to, or concurrent with, construction.
- This proposal has been prepared assuming services would be provided as described in the paragraphs above. Specific items of service not in this proposal include, but are not limited to the following: construction staking, platting, or right-of-way mapping. Services excluded above can be provided at your request as negotiated as an additional service.
- Any additional work requested by the Client in addition to those tasks identified above will be invoiced on a time & materials basis.
- Reimbursable expenses such as mileage, per diem, and printing will be invoiced at cost and are included in the fee listed above.
- It is assumed that the client will notify the owners of lots within and adjacent to the survey limits prior to mobilization to facilitate access onto the properties.
- Any additional mobilizations needed due to impeded access to private property during the first mobilization will be invoiced on a time & material basis.
- In the event that BHI encounters a major unforeseen boundary issue or conflict, BHI will stop work and reserves the right to renegotiate the fee for this project based on the new circumstances and/or consultation with the client.
- Scope assumes analysis and design of a low water crossing, culvert crossing, or hybrid of these is required. Design of larger structures (i.e., a bridge) is excluded.
- Analysis excludes 404 permitting.
- No analysis of other crossings, existing driveway culverts, or other roadside drainage improvements will be provided.
- Analysis of storm events other than the 10-year and 100-year is excluded.
- Scour protection will be limited to standard NMDOT analysis for bed scour and scope assumes the design will utilize Standard Drawings.
- The crossing is designated by FEMA as Zone D Flood Hazard Ara. FEMA processing (i.e. CLOMR/LOMR) are not anticipated to be required and are not included.
- Preparation of SWPPP and Temporary Erosion Control Plans is excluded.
- Preparation of record drawings is excluded.
- It is assumed that design will reference NMDOT standard specifications.
- Bidding support and construction administration is excluded.


Chestnut Bridge
Lake Roberts, NM
Canyon Rd
35
Lake Roberts Motel
PROJECT LIMITS
Lake Roberts General Store & Cabins
Lake Roberts
Chestnut St
Cottenwood Dr
Chestnut St
Sapillo Creek
Orchard Dr
Mulberry Dr
Google Earth
Image © 2025 Airbus
N
700 ft

Prepared by

Bohannan Huston
Engineering
Spatial Data
Advanced Technologies

GRANT COUNTY
CHESTNUT BRIDGE

COST SUMMARY

Project Name

1. Direct Labor

	hours		rate		cost
Engineer 7	39	x	$270.00	=	$10,530.00
Engineer 6	159	x	$245.00	=	$38,955.00
Engineer 5	0	x	$210.00	=	$0.00
Engineer 4	247	x	$185.00	=	$45,695.00
Engineer 3	169	x	$150.00	=	$25,350.00
Engineer 2	0	x	$140.00	=	$0.00
Engineer 1	341	x	$125.00	=	$42,625.00
GIS Professional 2	21	x	$120.00	=	$2,520.00
Engr. Tech 6	150	x	$140.00	=	$21,000.00
Surveyor 6	36	x	$245.00	=	$8,820.00
Survey Tech 6	80	x	$140.00	=	$11,200.00
Survey Tech 3	22	x	$110.00	=	$2,420.00
Administrative Assistant 6	6	x	$120.00	=	$720.00
Administrative Assistant 5	4	x	$115.00	=	$460.00
Totals	**1274**				**$210,295.00**

5. Direct Expenses

Printing & Reproduction			Lump Sum		$0.00
Plotting			Lump Sum		$0.00
Mileage	986	x	$ 0.700	=	$690.20
Per Diem	0	x	$ 98.00	=	$0.00
GPS Receiver	1	x	$ 150.00	=	$150.00
COZ Engineering, LLC					$6,200.00
Total Direct Expenses					**$7,040.20**

6. PROJECT TOTAL **$217,335.20**

Prepared by

Bohannan Huston
Engineering
Spatial Data
Advanced Technologies

GRANT COUNTY
CHESTNUT BRIDGE

MAN-HOUR ESTIMATE

Chestnut St Bridge Replacement
Manhour Estimate

	ACTIVITIES	Engineer 7	Engineer 6	Engineer 4	Engineer 3	Engineer 1	GIS Pro 5	Engineer Tech 6	Surveyor 6	Survey Tech 6	Survey Tech 3	Administrative Assistant 6	Administrative Assistant 5	Total
TASK 1	**Survey**													
	Topographic Survey/Boundary Determination/Easement Exhibits								36	80	22		4	142
	Project Management and Oversight	2	8											10
	Subtotal	**2**	**8**	**0**	**0**	**0**		**0**	**36**	**80**	**22**		**4**	**152**
TASK 2	**Geotechnical Services**													
	COZ Engineering, LLC													0
	Project Management and Oversight	1	4											5
	Subtotal	**1**	**4**	**0**		**0**		**0**	**0**	**0**	**0**		**0**	**5**
TASK 3	**Drainage Analysis and Memo**													
	Hydrology				12	22	10							44
	Site Visit		11		13	12	3							39
	Hydraulic Analysis		5		22	78	2							107
	Conceptual design		5		22	55		30						112
	Memo		3		10	30	6					4		53
	Coordination and Project Management	1	7		24	4						2		38
	QAQC	2	5											7
	Subtotal	**3**	**36**	**0**	**103**	**201**	**21**	**30**	**0**	**0**	**0**	**6**	**0**	**400**
TASK 4	**Drainage Design**													
	60% Plans	4	5		22	55		30						116
	90% Plans	4	2		15	45		20						86
	Final Plans	4	2		12	32		10						60
	Coordination and Project Management		2		12									14
	QAQC	3			5	8								16
	Subtotal	**15**	**11**	**0**	**66**	**140**	**0**	**60**	**0**	**0**	**0**		**0**	**292**

Prepared by

Bohannan Huston
Engineering
Spatial Data
Advanced Technologies

GRANT COUNTY
CHESTNUT BRIDGE

MAN-HOUR ESTIMATE

Chestnut St Bridge Replacement
Manhour Estimate

	ACTIVITIES	Engineer 7	Engineer 6	Engineer 4	Engineer 3	Engineer 1	GIS Pro 5	Engineer Tech 6	Surveyor 6	Survey Tech 6	Survey Tech 3	Administrative Assistant 6	Administrative Assistant 5	Total
TASK 5	**Preliminary Design**													
	Create title sheet and general sheets		2	4				4						10
	Survey Control Sheet		2	4										6
	Establish horizontal alignment		2	4										6
	Establish vertical alignment		2	8										10
	Establish typical sections for roadway		1	4				4						9
	Run roadway modeler and develop Civil 3D design		2	8										10
	Generate preliminary cross sections and tie slopes		2	4				4						10
	Preliminary structural details	4		20				10						34
	Create plan and profile sheets		1	4				4						9
	Calculate preliminary earthwork volumes		1	4										5
	Intersection design and details (2 locations)		2	8				4						14
	Permanent signing and striping plans		1	2				2						5
	Traffic control design and plans		1	4				2						7
	Quantity calculations and estimate of probable construction cost		4	8										12
	Coordination of design with utility companies		4	8										12
	Develop draft construction documents and specifications		10	20										30
	QAQC	8												8
	Subtotal	**12**	**37**	**114**		**0**		**34**	**0**	**0**	**0**		**0**	**197**
TASK 6	**Final Design**													
	Update title sheet and general sheets		1	2				2						5
	Survey Control Sheet			2										2
	Update horizontal alignment			2										2
	Update vertical alignment			2										2
	Update typical sections for roadway		1	2				2						5
	Run roadway modeler and develop Civil 3D design		1	8										9
	Update cross sections and tie slopes		1	2				2						5
	Updates to structural details	2		18				8						28
	Update plan and profile sheets		1	2				2						5
	Calculate preliminary earthwork volumes		1	4										5
	Update intersection design and details (2 locations)		2	8				4						14
	Update permanent signing and striping plans		1	2				2						5
	Update traffic control design and plans		1	8				4						13
	Quantity calculations and estimate of probable construction cost		4	8										12
	Coordination of design with utility companies		4	8										12
	Develop final construction documents and specifications		10	20										30
	QAQC	4												4
	Subtotal	**6**	**28**	**98**		**0**		**26**	**0**	**0**	**0**		**0**	**158**
TASK 7	**Project Management and Coordination**													
	Bi-Weekly coordination with Grant County Staff		20	20										40
	Preliminary design review meeting (virtual)		2	2										4
	Final design review meeting (virtual)		2	2										4
	Site Visit		11	11										22
														0
	Subtotal	**0**	**35**	**35**		**0**		**0**	**0**	**0**	**0**		**0**	**70**
	Total	**39**	**159**	**247**	**169**	**341**	**21**	**150**	**36**	**80**	**22**	**6**	**4**	**1274**

Prepared by

Bohannan Huston
Engineering
Spatial Data
Advanced Technologies

GRANT COUNTY
CHESTNUT BRIDGE

SUMMARY BY WORK ELEMENT

Task 1: Survey

1. Direct Labor

	hours		rate		cost
Engineer 7	2	x	$270.00	=	$540.00
Engineer 6	8	x	$245.00	=	$1,960.00
Engineer 5	0	x	$210.00	=	$0.00
Engineer 4	0	x	$185.00	=	$0.00
Engineer 2	0	x	$140.00	=	$0.00
Engineer 1	0	x	$125.00	=	$0.00
Engr. Tech 6	0	x	$140.00	=	$0.00
Surveyor 6	36	x	$245.00	=	$8,820.00
Survey Tech 6	80	x	$140.00	=	$11,200.00
Survey Tech 3	22	x	$110.00	=	$2,420.00
Administrative Assistant 5	4	x	$115.00	=	$460.00
Totals	**152**				**$25,400.00**

5. Direct Expenses

Printing & Reproduction			Lump Sum		$0.00
Plotting			Lump Sum		$0.00
Mileage		x	$ 0.700	=	$0.00
Per Diem		x	$ 98.00	=	$0.00
GPS Receiver		x	$ 150.00	=	$0.00
Total Direct Expenses					**$0.00**

6. SUB TOTAL WORK ELEMENT 1 **$25,400.00**

Prepared by

Bohannan Huston
Engineering
Spatial Data
Advanced Technologies

GRANT COUNTY
CHESTNUT BRIDGE
SUMMARY BY WORK ELEMENT

Task 2: Geotechnical Services

1. Direct Labor

	hours		rate		cost
Engineer 7	1	x	$270.00	=	$270.00
Engineer 6	4	x	$245.00	=	$980.00
Engineer 5	0	x	$210.00	=	$0.00
Engineer 4	0	x	$185.00	=	$0.00
Engineer 2	0	x	$140.00	=	$0.00
Engineer 1	0	x	$125.00	=	$0.00
Engr. Tech 6	0	x	$140.00	=	$0.00
Surveyor 6	0	x	$245.00	=	$0.00
Survey Tech 6	0	x	$140.00	=	$0.00
Survey Tech 3	0	x	$110.00	=	$0.00
Administrative Assistant 5	0	x	$115.00	=	$0.00
Totals	**5**				**$1,250.00**

5. Direct Expenses

Printing & Reproduction		Lump Sum		$0.00
Plotting		Lump Sum		$0.00
Mileage	x	$ 0.700	=	$0.00
Per Diem	x	$ 98.00	=	$0.00
GPS Receiver	x	$ 150.00	=	$0.00
COZ Engineering, LLC		Lump Sum		$6,200.00
Total Direct Expenses				**$6,200.00**

6. SUB TOTAL WORK ELEMENT 2 **$7,450.00**

Prepared by

Bohannan Huston
Engineering
Spatial Data
Advanced Technologies

GRANT COUNTY
CHESTNUT BRIDGE

SUMMARY BY WORK ELEMENT

Task 3: Drainage Analysis and Memo

1. Direct Labor

	hours		rate		cost
Engineer 7	3	x	$270.00	=	$810.00
Engineer 6	36	x	$245.00	=	$8,820.00
Engineer 5	0	x	$210.00	=	$0.00
Engineer 4	0	x	$185.00	=	$0.00
Engineer 3	103	x	$150.00	=	$15,450.00
Engineer 2	0	x	$140.00	=	$0.00
Engineer 1	201	x	$125.00	=	$25,125.00
GIS Professional 2	21	x	$120.00	=	$2,520.00
Engr. Tech 6	30	x	$140.00	=	$4,200.00
Surveyor 6	0	x	$245.00	=	$0.00
Survey Tech 6	0	x	$140.00	=	$0.00
Survey Tech 3	0	x	$110.00	=	$0.00
Administrative Assistant 6	6	x	$120.00	=	$720.00
Administrative Assistant 5	0	x	$115.00	=	$0.00
Totals	**400**				**$57,645.00**

5. Direct Expenses

Printing & Reproduction			Lump Sum		$0.00
Plotting			Lump Sum		$0.00
Mileage	500	x	$ 0.700	=	$350.00
Per Diem		x	$ 98.00	=	$0.00
GPS Receiver	1	x	$ 150.00	=	$150.00
Total Direct Expenses					**$500.00**

6. SUB TOTAL WORK ELEMENT 3 **$58,145.00**

Prepared by

Bohannan Huston
Engineering
Spatial Data
Advanced Technologies

GRANT COUNTY
CHESTNUT BRIDGE
SUMMARY BY WORK ELEMENT

Task 4: Drainage Design

1. Direct Labor

	hours		rate		cost
Engineer 7	15	x	$270.00	=	$4,050.00
Engineer 6	11	x	$245.00	=	$2,695.00
Engineer 5	0	x	$210.00	=	$0.00
Engineer 4	0	x	$185.00	=	$0.00
Engineer 3	66	x	$150.00	=	$9,900.00
Engineer 2	0	x	$140.00	=	$0.00
Engineer 1	140	x	$125.00	=	$17,500.00
GIS Professional 2	0	x	$120.00	=	$0.00
Engr. Tech 6	60	x	$140.00	=	$8,400.00
Surveyor 6	0	x	$245.00	=	$0.00
Survey Tech 6	0	x	$140.00	=	$0.00
Survey Tech 3	0	x	$110.00	=	$0.00
Administrative Assistant 5	0	x	$115.00	=	$0.00
Totals	**292**				**$42,545.00**

5. Direct Expenses

Printing & Reproduction			Lump Sum		$0.00
Plotting			Lump Sum		$0.00
Mileage		x	$ 0.700	=	$0.00
Per Diem		x	$ 98.00	=	$0.00
GPS Receiver		x	$ 150.00	=	$0.00
Total Direct Expenses					**$0.00**

6. SUB TOTAL WORK ELEMENT 4 **$42,545.00**

Prepared by

Bohannan Huston
Engineering
Spatial Data
Advanced Technologies

GRANT COUNTY
CHESTNUT BRIDGE
SUMMARY BY WORK ELEMENT

Task 5: Preliminary Design

1. Direct Labor

	hours		rate		cost
Engineer 7	12	x	$270.00	=	$3,240.00
Engineer 6	37	x	$245.00	=	$9,065.00
Engineer 5	0	x	$210.00	=	$0.00
Engineer 4	114	x	$185.00	=	$21,090.00
Engineer 2	0	x	$140.00	=	$0.00
Engineer 1	0	x	$125.00	=	$0.00
Engr. Tech 6	34	x	$140.00	=	$4,760.00
Surveyor 6	0	x	$245.00	=	$0.00
Survey Tech 6	0	x	$140.00	=	$0.00
Survey Tech 3	0	x	$110.00	=	$0.00
Administrative Assistant 5	0	x	$115.00	=	$0.00
Totals	**197**				**$38,155.00**

5. Direct Expenses

Printing & Reproduction			Lump Sum		$0.00
Plotting			Lump Sum		$0.00
Mileage		x	$ 0.700	=	$0.00
Per Diem		x	$ 98.00	=	$0.00
GPS Receiver		x	$ 150.00	=	$0.00
Total Direct Expenses					**$0.00**

6. SUB TOTAL WORK ELEMENT 5 **$38,155.00**

Prepared by

Bohannan Huston
Engineering
Spatial Data
Advanced Technologies

GRANT COUNTY
CHESTNUT BRIDGE
SUMMARY BY WORK ELEMENT

Task 6: Final Design

1. Direct Labor

	hours		rate		cost
Engineer 7	6	x	$270.00	=	$1,620.00
Engineer 6	28	x	$245.00	=	$6,860.00
Engineer 5	0	x	$210.00	=	$0.00
Engineer 4	98	x	$185.00	=	$18,130.00
Engineer 2	0	x	$140.00	=	$0.00
Engineer 1	0	x	$125.00	=	$0.00
Engr. Tech 6	26	x	$140.00	=	$3,640.00
Surveyor 6	0	x	$245.00	=	$0.00
Survey Tech 6	0	x	$140.00	=	$0.00
Survey Tech 3	0	x	$110.00	=	$0.00
Administrative Assistant 5	0	x	$115.00	=	$0.00
Totals	**158**				**$30,250.00**

5. Direct Expenses

Printing & Reproduction			Lump Sum		$0.00
Plotting			Lump Sum		$0.00
Mileage		x	$ 0.700	=	$0.00
Per Diem		x	$ 98.00	=	$0.00
GPS Receiver		x	$ 150.00	=	$0.00
Total Direct Expenses					**$0.00**

6. SUB TOTAL WORK ELEMENT 6 — $30,250.00

Prepared by

Bohannan Huston
Engineering
Spatial Data
Advanced Technologies

GRANT COUNTY
CHESTNUT BRIDGE
SUMMARY BY WORK ELEMENT

Task 7: Project Management and Coordination

1. Direct Labor

	hours		rate		cost
Engineer 7	0	x	$270.00	=	$0.00
Engineer 6	35	x	$245.00	=	$8,575.00
Engineer 5	0	x	$210.00	=	$0.00
Engineer 4	35	x	$185.00	=	$6,475.00
Engineer 2	0	x	$140.00	=	$0.00
Engineer 1	0	x	$125.00	=	$0.00
Engr. Tech 6	0	x	$140.00	=	$0.00
Surveyor 6	0	x	$245.00	=	$0.00
Survey Tech 6	0	x	$140.00	=	$0.00
Survey Tech 3	0	x	$110.00	=	$0.00
Administrative Assistant 5	0	x	$115.00	=	$0.00
Totals	**70**				**$15,050.00**

5. Direct Expenses

Printing & Reproduction			Lump Sum		$0.00
Plotting			Lump Sum		$0.00
Mileage	486	x	$ 0.700	=	$340.20
Per Diem		x	$ 98.00	=	$0.00
GPS Receiver		x	$ 150.00	=	$0.00
Total Direct Expenses					**$340.20**

6. SUB TOTAL WORK ELEMENT 7 **$15,390.20**

Prepared by

Bohannan Huston
Engineering
Spatial Data
Advanced Technologies

GRANT COUNTY
CHESTNUT BRIDGE
SUMMARY BY WORK ELEMENT

Task 8: Project Management and Coordination

1. Direct Labor

	hours		rate		cost
Engineer 7	0	x	$270.00	=	$0.00
Engineer 6	0	x	$245.00	=	$0.00
Engineer 5	0	x	$210.00	=	$0.00
Engineer 4	0	x	$185.00	=	$0.00
Engineer 2	0	x	$140.00	=	$0.00
Engineer 1	0	x	$125.00	=	$0.00
Engr. Tech 6	0	x	$140.00	=	$0.00
Surveyor 6	0	x	$245.00	=	$0.00
Survey Tech 6	0	x	$140.00	=	$0.00
Survey Tech 3	0	x	$110.00	=	$0.00
Administrative Assistant 5	0	x	$115.00	=	$0.00
Totals	**0**				**$0.00**

5. Direct Expenses

Printing & Reproduction			Lump Sum		$0.00
Plotting			Lump Sum		$0.00
Mileage		x	$ 0.700	=	$0.00
Per Diem		x	$ 98.00	=	$0.00
GPS Receiver		x	$ 150.00	=	$0.00
Total Direct Expenses					**$0.00**

6. SUB TOTAL WORK ELEMENT 7 **$0.00**

GRANT COUNTY
CHESTNUT BRIDGE

Prepared by

Bohannan Huston
Engineering
Spatial Data
Advanced Technologies

FEE SUMMARY

Project Name		BHI ENGINEER DESIGN FEES
Task 1:	Survey	$ 25,400.00
Task 2:	Geotechnical Services	$ 7,450.00
Task 3:	Drainage Analysis and Memo	$ 58,145.00
Task 4:	Drainage Design	$ 42,545.00
Task 5:	Preliminary Design	$ 38,155.00
Task 6:	Final Design	$ 30,250.00
Task 7:	Project Management and Coordination	$ 15,390.20
	SUBTOTAL	**$ 217,335.20**
	GRT Rate 7.6250%(BHI office ABQ)	$ 16,571.81
	PROJECT TOTAL	**$ 233,907.01**

COZ Engineering, LLC

October 22, 2025

Bohannan Huston
Albuquerque, NM

Attn. Logan Brandenburg, PE
P: 505.280.6121
E: LBrandenburg@bhinc.com

Re: Proposal for Geotechnical Engineering Services
Chestnut Street Bridge Replacement
Lake Roberts, New Mexico
Proposal No. P4225165

Dear Mr. Brandenburg:

At your request, I have provided the following geotechnical proposal for the Chestnut Street Bridge Replacement located in Lake Roberts, New Mexico. The project includes replacement of the existing bridge with a low water crossing potentially consisting of culverts, concrete headwalls, concrete slope blankets and upstream and downstream rip rap aprons.

A total of **two (2)** test borings (north and south abutments) are proposed at the site to provide soils information for the project. The borings are planned to be terminated at depths of **20 feet** below the existing ground surface (bgs). Split-spoon and/or ring-barrel samples will be obtained at 2.5-foot intervals through the upper five feet of each boring and at 5-foot intervals throughout the remaining total depth. Testing will include visual classification, moisture content, grain size analysis, Atterberg limits, pH, sulfates and resistivity.

An engineering report will be prepared to contain the following:

- Boring plan and boring logs
- Laboratory results
- Soil conditions
- Groundwater conditions
- Foundation recommendations and design parameters
- Seismic site classification
- Earthwork considerations
- Subgrade preparation
- Drainage

PO Box 13331
Las Cruces, New Mexico 88013
Cell: 575.642.7671
Email: thecoz42@gmail.com

- Engineered fill recommendations
- Corrosion

The total proposed fee for the field work, laboratory testing and geotechnical report is **$6,200**.

Please sign and return the attached notice to proceed. If you have any questions, please contact me at 575-642-7671.

Sincerely,
COZ ENGINEERING, LLC

Dan Cosper, P.E.

NOTICE TO PROCEED
Proposal for Geotechnical Engineering Services
Chestnut Street Bridge Replacement
Lake Roberts, New Mexico
COZ Proposal No. P4225165

BY: _____ FOR: _____
(Signature) (Company)

NAME_____ DATE:_____