

INCORPORATED COUNTY OF LOS ALAMOS

BID AND SPECIFICATIONS



LOS ALAMOS

El Vado Fiber Optic Line Install

INVITATION FOR BIDS NO. IFB24-35

Advertised on November 7, 2023 in Albuquerque Journal and LA Daily Post

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1.0 BIDDING PHASE

1.1 Invitation for Bids

This is a brand name or equal specifications procurement. The designated brand names are:

- Beldon
- Allied Bolt
- TOPCO
- SNAPAROUND

And any other brand identified in the solicitation documents. The nature of the products makes use of a brand name or equal specification suitable for the procurement. The Deputy Chief Purchasing Officer has determined that essential characteristics of the brands described above are commonly known in the industry or trade. Use of the brand names are for the purpose of describing the standard quality, performance, and characteristics desired and is not intended to limit or restrict competition. Substantially equivalent products to those designated will be considered for award, the County reserves the right to obtain additional information from the bidder regarding technical and performance specifications of suggested alternates and final right to determination of equivalency shall be determined by the County.

The Incorporated County of Los Alamos ("County") reserves the right, in its sole discretion, to accept any bid and to reject any or all bids.

Bids are invited from all responsible bidders.

Bid documents for this project may be obtained by contacting the Office of Purchasing Officer at:

Los Alamos County
Procurement Division
101 Camino Entrada, Building 3
Los Alamos, New Mexico 87544
505-662-8056

Bid documents for this project may be downloaded from the following website:

<https://losalamosnm.egnyte.com/fl/5E3kJLN2xH>

Copies of Bid Documents and Addenda will be made available for review wherever Solicitation Documents are on file for that purpose. Hard copies may be made available provided advance payment is made to the Office of the Purchasing Officer. Bid details can be found on the County website under "Doing Business" and "Bids & RFPS".

1. **ELECTRONIC SUBMISSION:** Emails should be addressed to: lacbid@lacnm.us. Subject line must contain the following information: **RESPONSE – IFB24-35 El Vado Fiber Optic Line Install.**

It is strongly recommended that a second, follow up email (without the Bid included or attached) be sent to Carmela Salazar, Senior Buyer at carmela.salazar@lacnm.us to confirm the Bid was received.

The body of the email must contain enough information for the identity of the Bidder to be clear, including company name, name of person sending the email, and contact information including email address and phone number.

Only emails with Bids received in the lacbid@lacnm.us email box prior to 2:00 p.m. MST, **Tuesday, December 5, 2023** will be reviewed.

Bids submitted by email will be opened only after the closing date and time stated in the solicitation document.

2. **PAPER FORM SUBMISSION:** Sealed bids, submit one (1) unbound original and three (3) copy, subject to the conditions set forth in the Instructions to Bidders and in the other Solicitation Documents, will be received at the office of the Los Alamos County Purchasing Officer, 101 Camino Entrada, Building 3, Los Alamos, New Mexico, until 2:00 p.m. MST, **Tuesday, December 5, 2023** and then publicly opened for the following project:

**Incorporated County of Los Alamos
Invitation for Bids Number: IFB24-35 El Vado Fiber Optic Line Install**

Bid security in the amount of five percent (5%) of the bid must accompany the bid. Such cash, certified checks or bid bonds will be returned to all except the three finalist bidders within three days after the opening of bids. The remaining cash, checks and bid bonds will be returned promptly after the County and the accepted Bidder have executed the contract, or if no award has been made within sixty (60) days after the date of the opening of bids, upon demand of the bidder at any time thereafter, so long as Bidder has not been notified of the acceptance of Bidder's bid. In submitting their Bid Bond, it is not mandatory that Bidders use the Bid Bond form provided in the packet. The County strongly encourages all Contractors to use this form, but if the contractor elects not to use it, the Bid Bond must be submitted on a form acceptable in the construction industry and approved by the County Project Manager in advance of the bid due date.

Mandatory Pre-bid meeting is scheduled for Wednesday November 15, 2023 at 10:00 am at the El Vado Hydroelectric Plant, 3070 NM State Road 112, mile 30.7, El Vado, NM 87575.

- Directions in Section 3.3.3.

This conference is held to answer questions from the prospective bidders as well as familiarize bidders with the project. Questions regarding the meaning of plans, specifications or other documents related to the project should be submitted in writing prior to the pre-bid conference. The County will preside at the pre-bid conference and provide for the recording and distribution of minutes. The pre-bid conference will include, but not be limited to the following:

1. Discussion of schedule for procurement, progress, values for progress payments and submittals.
2. Critical work sequencing and priorities.
3. Use of construction site premises, storage areas, office areas, security, cleaning, and County's needs.
4. Transmittal, review, and distribution of submittals.
5. Field decision process.
6. Maintain record documents.
7. Public Information.

Questions and interpretations of the bid shall be addressed to:

Project Manager: Lucas Montoya
Department of Public Utilities
1000 Central Avenue, Suite 130
Los Alamos, New Mexico 87544
Phone Number: 505-662-8135
Email: lucas.montoya@lacnm.us

Any questions must be received in writing at least six (6) days prior to the date fixed for the opening of bids. Failure of any bidder to receive any addendum or interpretation shall not relieve such bidder from any obligation under its bid as submitted. All addenda so issued shall become part of the solicitation documents.

The County reserves the right to issue addenda to the solicitation documents including construction specifications and plans during the advertising period as provided in the solicitation documents. Bidders are responsible for determining if any addenda have been issued. The terms, bid and solicitation are interchangeable. Also, the terms of the contract and agreement are interchangeable.

For the County of Los Alamos Procurement Division:

By: Carmela Salazar
Title: Senior Buyer
Phone Number: 505-662-8056
E-mail: carmela.salazar@lacnm.us

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1.2 Summary of Work

Incorporated County of Los Alamos Invitation for Bids Number: IFB24-35 El Vado Fiber Optic Line Install

This project is issued by and under the control of The Incorporated County of Los Alamos. The contracting office is the Department of Public Utilities. The location of the project is in the County of Rio Arriba, New Mexico.

The summary of work is as follows, but is not limited to the following:

The selected contractor shall provide all labor, materials, and equipment to install and test approximately Thirteen (13) miles of new, 24-strand Single Mode (SM) fiber optic line per Exhibit E, El Vado Fiber Optic Line Specifications and Exhibit F, El Vado Fiber Optic Line Plan Set, as described below:

1. Project will begin at the EL Vado Hydroelectric Power Plant where the new fiber optic line will terminate in a new patch panel in the existing communications rack inside the plant control room located in the first underground level of the plant.
2. The fiber optic line will be routed along the ceiling in a conduit and exit the building on the southeast through a newly cored penetration in the existing concrete powerhouse wall. The fiber optic line will be routed up a rigid riser attached to a 30' tapered steel pole.
3. The overhead portion of the new fiber optic line begins at the new steel pole then extends overhead easterly for approximately 13 miles. The fiber optic line will be attached to an existing 69kV transmission powerline, which includes 162 existing 55-foot-tall wooden transmission poles along the path.
4. The fiber optic line will come off the existing 69kV power pole just outside of the Spills Substation fence. The fiber optic line will transition to a new 50' wooden Class 2 "slack" pole near the fenced substation and then go underground again for the last (approximate) 180 feet. The underground duct bank will have two SCH-40 PVC conduits (1 spare) and two 3'x3'x3' pull boxes.
5. The last section of the fiber optic line will leave the last pull box underground to the substation building, then transition through a vertical riser on the substation exterior wall, then penetrate the building and be routed along the ceiling through an existing cable tray. The new fiber optic line will terminate in a new patch panel in the existing communications rack inside the Spills Substation Building.
6. 18 Guy wires will be required on each angle pole in the alignment. The guy wires shall be constructed per detail D1 on Sheet E-501.
7. Two (2) wind dampers are required on each span.
 - a. Beldon 28-80001-Aerial Cable Aluminum Alloy Damper
 - b. Allied Bolt 9081-Aluminum Aerial Cable Wind Damper
 - c. Or Engineer Approved equal.
8. Underground fiber markers are required at each pull box location. Overhead fiber markers are required at each pole location.

Approved Products:

- a. Underground: TOPCO, 72" Round Utility Dome Marker/Orange, Black & White/Legend – "Fiber Optic Cable Buried Below Caution Call Before Digging".
 - b. Overhead: SNAPAROUND® CABLE MARKERS, Outdoor Durable, UV, Solvent and water resistant, Orange color, Labeled "Fiber Optic". Sized as required for fiber optic cable provided.
 - c. Or Engineer Approved equal.
9. Contractor shall provide a messenger wire at all spans over 650 feet. Contractor shall lash cable to messenger wire per fiber optic manufacturers recommended lashing.
 10. Contractor to install new fiber optic line underground between Pole #153 and Pole #154:
 - a. Install 750 feet of 4" SCH-40 (2-each @ 375') Electric Conduit per Trench detail D4, Sheet E-500.
 - b. Install Pull Box at the base of each pole (2-each) per detail D8, Sheet E-500.
 - c. Install Pole Riser (2-each) per detail A6, Sheet 501.
 11. Additive Alternate: If not sufficient clearance to build new line over the existing powerline, Contractor to install new fiber optic line underground between Pole #145 and Pole #146.
 - a. Install 366 feet of SCH-40 Electric Conduit per trench detail D4, Sheet E-500.
 - b. Install 50 feet of 4" SCH-40 PVC or HDPE Electric Conduit by Directional Boring.
 - c. Install Pull Box at the base of each pole (2-each) per detail D8, Sheet E-500.
 - d. Install Pole Riser (2-each) per detail A6, Sheet E-501.
 12. The new fiber optic line will be tested but not placed into service.

INFORMATION RELATED TO THE SCOPE OF WORK

1. The existing 69kV powerline is located within a 50' easement located primarily on remote private property. This transmission powerline is owned and operated by Los Alamos County. The service road that follows the powerline is all dirt and not accessible in some areas by passenger car, and during inclement weather, it requires a 4x4.
2. The powerline crosses New Mexico State Highway 112 in two (2) locations, in addition to three (3) other publicly accessible roadway/driveway crossings.
 - a. County is responsible for acquiring highway permits with support from selected Contractor.
 - b. Selected Contractor is responsible for preparing a traffic control plan, providing traffic control devices, and executing that traffic control plan to cross the state highway. Selected Contractor shall post certificate of insurance for the work performed within the state highway right-of-way.
3. Spills Substation is owned and operated by Northern Rio Arriba Electric Cooperative ("NORA"). All work in the substation yard and building must be coordinated in advance with NORA.
4. Please refer to Splice Map for Splice Locations.
5. Schedule:

Pre-Bid Meeting	Wednesday, November 15, 2023
Bids Due	Tuesday, December 5, 2023
Bid Award	Tuesday, January 30, 2024
Notice to Proceed	Wednesday, February 21, 2024
Pre-Construction Meeting	Wednesday, March 6, 2024
Substantial Completion Date	Thursday, August 1, 2024
+/-Final Completion Date	Sunday, September 1, 2024
<i>*The dates listed above are tentative and subject to change.</i>	

Work to achieve Final Completion, including all Operations and Maintenance Manuals, final Certified Payrolls, As-built drawings, Warranty Certificates, Final Inspection by the Manufacturer and approval of the Installation, and other close-out documents by September 1, 2024.

1.3 Requirements for Bidders

Bids must be made with the understanding and in accordance with these conditions for bidders:

1.3.1 Bid Evaluation Criteria

Bid acceptance and bid evaluation. Bids shall be unconditionally accepted without alteration or correction, except as authorized in this article. Bids shall be evaluated based on the requirements set forth in the IFB, which may include criteria to determine acceptability such as inspection, testing, quality, workmanship, delivery and suitability for a particular purpose. Those criteria that will affect the bid price and be considered in evaluation for award shall be objectively measurable, such as discounts, transportation costs, and total of life cycle costs. The IFB shall set forth the evaluation criteria to be used. Only criteria that are set forth in the IFB may be used in bid evaluation. Interviews are to be used only for the purpose of clarification. The final evaluation results shall be forwarded to the purchasing agent.

The evaluation criteria for this Bid are:

1. Accurate submission of Bid Response Documents
2. Cost

The County may make such investigations as deemed necessary to determine the ability of the Bidder, and any prospective subcontractors of the Bidder, to perform the work, and the bidder shall furnish to the County all such information and data for this purpose as the County may reasonably request. The County reserves the right to reject any bid if the evidence submitted by, or investigation of, such Bidder fails to satisfy the County that such Bidder is properly qualified to carry out the obligations of the Contract and to timely complete the work contemplated herein. Conditional bids may not be accepted in the sole discretion of the County.

1.3.2 Required Bid Response Documents

The bidder shall follow the instructions described in Section 1.1 Invitation for Bids.

1.3.3 The Bidder's Bid Response Documents

The following documents must be completed and included in this preferred order:

1. Copy of Bidder's State of New Mexico Contractor's License(s) with proper classifications.
2. Bid Form (Section 1.5.1)
3. Alternatives and Allowances, if applicable (Section 1.5.2)
4. List of Subcontractors (Section 1.5.3).
5. Bid Bond (Section 1.5.4)
6. Campaign Contribution Form (Section 1.5.5)
7. Certification – Debarment, Suspension, and other Responsibility Matters (Section 1.5.6)

8. Permanent Main Office Address of Company (Section 1.5.7) – Note requirement to provide a Certificate of Good Standing and Compliance from the New Mexico Secretary of State, if incorporated.
9. Authorization for Verification of Information (Section 1.5.8)
10. Provide proof of online registration and payment of \$400.00 for Certificate of Contractors Registration (Section 1.5.9) with New Mexico Department of Workforce Solutions.

The County may consider a bid to be non-responsive or non-responsible if the Contractor fails to include any of the items described in items 1 through 10, above.

1.3.4 Liquidated Damages for Failure to Enter into Contract

The successful Bidder, upon failure or refusal to execute and deliver the Contract and required Bonds within ten (10) calendar days after Bidder has received the Notice of Award, shall forfeit the Bidder's Bond to the County, as liquidated damages for such failure or refusal, the bid security deposited with Bidder's bid.

1.3.5 Conditions of Work

Each bidder must inform itself fully of the conditions relating to the construction of the Project and the employment of labor thereon. Failure to do so will not relieve a successful bidder of its obligation to furnish all material and labor necessary to carry out the provisions of the Contract. Insofar as possible, the Contractor in carrying out the Work must employ such methods or means as will not cause any interruption of, or interference with the Work of any other contractor, or the daily operations of County offices. The Work in this Contract will be carried out during the hours of 8:00 a.m. to 5:00 p.m., Monday through Friday unless otherwise scheduled with and approved by the County. Noise Ordinance Waivers are required for work occurring between the hours 9:00 p.m. and 7:00 a.m.

1.3.6 Addenda and Requests for Interpretation

- A. No interpretation of the meaning of the plans, specifications or other pre-bid documents will be made to any bidder orally and bidders understand that no oral interpretation once made may be relied upon. Every request for such interpretation shall be in writing addressed to the Project Manager. Requests for interpretation must be received at least six (6) working days (Monday-Friday) prior by 5:00 p.m. to the date fixed for the opening of bids. Failure of any bidder to acknowledge all addenda on the Addendum Acknowledgement Form shall not relieve such bidder from any obligation under its bid as submitted and may render the bidder non-responsive. Each Bidder shall ascertain prior to submitting a Bid that the Bidder has received all Addenda issued, and the Bidder shall specifically acknowledge their receipt in the bid. All addenda so issued shall become part of the Contract documents.
- B. Addenda will be e-mailed to all who are known by the County to have requested Bid Documents.

- C. No Addenda will be issued later than four (4) working days prior to the date for receipt of Bids except an Addendum withdrawing the request for Bids or one which includes postponement of the date for receipt of Bids.

1.3.7 Power of Attorney

Attorneys-in-Fact who sign any required bonds must file with each bond a certified properly executed and dated copy of their power of attorney.

1.3.8 Obligation of Bidder

Complete sets of Solicitation Documents must be used in preparing Bids; neither the County nor Engineer assumes any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Solicitation Documents.

The Submission of a bid will constitute an incontrovertible representation by Bidder that Bidder has complied with every requirement of the Bid, which without exception the Bid is premised upon performing and furnishing the Work required by the Solicitation Documents. The bidder will be required to establish to the satisfaction of the County the qualifications and capability of the persons proposed to furnish and perform the Work described in the Solicitation documents. Contractor, by signing the Bid also acknowledges that the Contract Time is reasonable for the weather and climactic conditions.

Prior to the award of the Contract, the County will notify the bidder in writing if the County after due investigation has reasonable objection to a proposed person or entity, the Bidder may, at the Bidder's option, (1) withdraw the Bid, or (2) submit a substitute person or entity acceptable to the County with an adjustment in the Base Bid or Alternate Bid to cover the difference in cost, if any, occasioned by such substitution. The County may accept the adjusted bid price. In the case that the adjusted price makes them no longer the low bidder, County reserves the right to award to the subsequent low bidder. In the event of withdrawal, bid security will not be forfeited. Persons proposed by the Bidder and to whom the County has made no reasonable objection must be used to perform the Work for which they were proposed and shall not be changed except with the prior written consent of the County.

1.3.9 Safety Standards and Accident Prevention

With respect to all work performed under this contract, the Bidder shall:

- A. Comply with the standard provisions of the most current versions of all applicable laws, rules and regulations that apply to the work contracted for.
- B. Provide a Safety Management Plan to the County after award acceptable to the Project Manager (see Section 3).

1.3.10 Substitutes or Brand Name or Equal

During solicitation, it may be determined that a "brand name or equal" is in the County's best interests, and in many cases is the "Basis of Design" for a particular item or system. The Contractor may provide a substitution of a particular item or items. The Contractor

shall provide proof that the proposed substitute item is equal to or exceeds the basis of design. The County reserves the right to accept or reject the substitution at its sole discretion.

All re-design and evaluation costs that may be incurred shall be paid by the Contractor.

The Contractor shall provide an alternate bid based on the original plans and specifications and shall provide separately the cost for the substituted item, which the County reserves the right to accept or reject.

The procedure for submission of any such application by Contractor and consideration by County is set forth in Section 3.

1.3.11 Bids to Remain Subject to Acceptance

All bids will remain subject to acceptance for sixty (60) calendar days after the day of the Bid Opening. The County may, at its sole discretion, release any Bid and return that Bidder's Bid Security prior to that date. County may request an extension, agreeable to both the Bidder and County.

1.3.12 Withdrawal of Bids

- A. Bidder may withdraw its bid by written notice and received by Purchasing Agent prior to bid opening.
- B. After bid opening, no changes in bid prices or other provisions of bids prejudicial to the interests of the County or fair competition shall be permitted. In lieu of bid correction, a low bidder alleging a material mistake of fact may be permitted to withdraw its bid if: (1) The mistake is clearly evident on the face of the bid document; or (2) The Bidder submits evidence which clearly and convincingly demonstrates that a mistake was made.

1.3.13 Acceptance or Rejection of Bids

The County reserves the right to accept any bid, reject any or all bids without cause, to waive any or all technicalities in any Bid in the interest of the County and the right to reject all non-conforming, non-responsive or conditional Bids.

1.3.14 Award

Bids shall be evaluated based on the requirements set forth in the IFB, which may include criteria to determine acceptability such as inspection, testing, quality, workmanship, delivery and suitability for a particular purpose and the Contract shall be awarded on the basis of the lowest responsible and responsive bidder in accordance with Chapter 31-101 (i) of the Los Alamos Code of Ordinances.

1.3.15 Registration of Contractors and Subcontractors

Any bidder that submits a bid valued at more than the dollar amount required by the New Mexico Public Works Minimum Wage Act [13-4-11 through 13-4-17 NMSA 1978] and the New Mexico Subcontractors Fair Practice Act [13-4-31 through 13-4-43] for a public works project shall be registered with the labor and industrial division of the labor department.

County will not accept bids for a public works project subject to the New Mexico Public Works Minimum Wage Act from the contractor that does not provide proof of required registration for itself and its subcontractors.

1.3.16 Procurement Preferences

Sec. 31-261. - State and local preferences.

(a) *Definitions.* For the purposes of this section:

- (1) The terms "resident business" and "resident veteran business" shall be defined as set out in NMSA 1978, § 13-1-21;
- (2) The term "local" as applied to a business shall mean that it meets the requirements of the above definition, maintains its principal office and place of business in Los Alamos County, and has a required Los Alamos County business license.

(b) *Requirements for preference qualification.* The chief purchasing officer shall determine if a preference is applicable to a particular bid or offer on a case-by-case basis. A bidder or offeror must submit a written request for preference, with a copy of the state-issued preference certificate, with its bid or proposal to qualify for this preference.

- (1) If a corporation, it shall be incorporated in New Mexico and maintain its principal office and place of business in the state;
- (2) A person shall have qualified with the state chief purchasing officer as a resident business or resident veteran business and obtained a certification number as provided in NMSA 1978, § 13-1-22.

(c) *Preference factor.*

- (1) The preference factor for qualifying resident and local businesses applied to bids and proposals shall be five percent.
- (2) The preference factor for qualifying resident veteran businesses shall be in accordance with the requirements set forth in NMSA 1978, § 13-1-21.

(d) *Invitations for bids.* When bids are received, the price quoted by the qualifying vendor shall be multiplied by 0.95. After application of the preference factor, the contract shall be awarded to the lowest bidder. If one or more low prices are equal, the bid shall be awarded with respect to the next category of offerors listed below, and the next, until an offer qualifies for award. The priority of categories of offers is as follows:

- (1) Local business;
- (2) Resident business.

(e) *Requests for proposals.* When proposals are received, the total evaluation score with or without the cost factor of each proposal received from a qualifying vendor shall be multiplied by 1.05. After application of the factor, the contract shall be awarded to the highest score. If one or more scores are equal, the same procedure shall be followed with respect to the next category of offerors listed, and the next, until an offer qualifies for award. The priority of categories of offerors is the same as listed in subsection (d) of this section.

(f) *Exemptions from preferences.* The resident and local preference specified in this article shall not be applied:

- (1) To requests for qualifications;
- (2) To any purchase of goods or services in excess of \$500,000.00;
- (3) When the expenditure of federal funds designated in whole or in part for a specific purchase is involved; or
- (4) When the expenditure of grant funds, a condition of which prohibits a local preference, is involved.

(Ord. No. 02-098, § 2, 12-2-2008; Ord. No. 02-305, § 8, 2-25-2020)

1.4 Notices to Contractors

1.41 Applicable Law

Work shall be performed in accordance with applicable federal, state and local laws (Los Alamos County Code of Ordinances, Section 31.2 Procurement Code).

1.4.2 Gross Receipts Tax

All bids submitted are to exclude the applicable gross receipts taxes. County will pay the applicable taxes to the Contractor including any increase in the applicable taxes becoming effective after the execution date of the contract. The applicable gross receipts taxes will be shown as a separate amount on each payment application made under the contract. The Contractor is responsible for payment to the State of New Mexico for all gross receipt's taxes collected.

1.4.3 Minimum Wage Rates

Pursuant to the New Mexico Public Works Minimum Wage Act, Section 13-4-11 through 13-4-17 NMSA 1978 (comp.) all certified payrolls submitted must contain required information as stated on the pertinent information sheet of the Wage Rate Decision issued on said project.

The Contractor, Sub-contractor and all tiers shall provide the Statement of Intent to Pay Prevailing Wages form to County's Project Manager.

1.4.4 Work Conditions

This contract will be performed in and adjacent to Los Alamos County for the contract duration specified in the Contract. The Contractor shall be aware of the conditions that may normally exist within the project area during performance of the work. Those conditions may include but are not limited to:

- Extended freezing temperatures,
- Intense rainfall events,
- Snowfall and snow accumulation,
- Limited direct sunlight.

Delays due to normal weather conditions are not eligible for time extensions and/or additional compensation. Contractor is required to protect their work and the project from normal weather events. Unusual weather-related time extensions may be awarded by the County pursuant to an approved change order at the County's sole discretion. Please refer to Section 2, Contract Articles 2 and 3.

1.4.5 Public Information

The Contractor is required to be an active participant in the execution of the Public Information and Involvement Plan (PIIP) to be developed by the County. County retains edit and approval rights to any documents being released to the public and requires two (2) working days advance notice to allow for said edit/approval. Contractor will perform/assist the County in successfully implementing PIIP activities that may include, but not be limited to:

- Weekly updates by Wednesday noon of traffic control expected on this project for the following week;

- Placement of door hangers 48 hours prior to any Utilities service disconnections (gas, water, and electric);
- Five (5) working days advance notification to Project Manager regarding impacts to school or transit bus stops and safe routes to schools;
- Inform businesses and residents 48 hours prior to direct impacts during construction.
- County policy is to advertise in the local newspaper in advance of posting traffic control signs or barricades. The Contractor will submit information concerning posting of traffic control signs and barricades at least five (5) working days in advance to the Owner.

Project Manager shall determine the need, size, and location for a project sign(s) that may include the following:

1. Project name
2. Contractor business name and contact information
3. Budget
4. Project start and end months
5. County Project Manager contact information
6. A rendering of the improvement(s) if available.

1.4.6 Performance and Labor and Material Bonds Requirements

Performance Bond and Labor-Materials Bond shall be executed after receipt of Notice of Award to the successful bidder in an amount equal to one hundred percent (100%) of the total amount payable by the terms of the contract. Bonds must be prepared and executed on the Performance Bond and Labor-Materials Bond forms attached hereto or on such other forms as may be approved in writing by the Owner. Surety shall be by a company licensed to do business in the State of New Mexico and acceptable to the Owner.

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1.5 Bid Forms

This Bid Submitted to:

**Incorporated County of Los Alamos
Bid Number: IFB24-35 El Vado Fiber Optic Line Install**

- A. The undersigned Bidder proposes and agrees, if this Bid is accepted; to enter into an agreement with County in the form included in the solicitation documents; to perform and furnish all work as specified or indicated in the solicitation documents for the contract price; and within the contract time indicated in this bid; and in accordance with all of the other terms and conditions of the solicitation documents.
- B. Bidder accepts all the terms and conditions of the solicitation and Invitation to Bid and Instructions to Bidders, including without limitation those dealing with the disposition of Bid Security. This Bid will remain subject to acceptance for sixty (60) calendar days after the day of the Bid opening. Bidder will sign and submit the Agreement and the Performance, Labor and Material Bonds, Certificate of Insurance and all other documents required by the Solicitation Requirements within ten (10) calendar days after receipt of the County's Notice of Award.
- C. Notice to Proceed shall be issued no later than twenty-eight (28) calendar days from Notice of Award.
- D. Bidder shall promptly provide written notice to the County of any conflicts, errors, or discrepancies discovered in the solicitation documents.
- E. Bidder represents this Bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm, or corporation. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid. Bidder has not solicited or induced any person, firm or corporation to refrain from bidding, and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over County.
- F. By submitting the bid, each bidder represents to the County that it has inspected the site, is familiar with local conditions that may affect cost, progress, performance or furnishing of the work, has considered federal, state, and local laws and regulations that may affect cost, progress, performance, or furnishing of the Work and has read and is thoroughly familiar with the technical specifications and plans and the Solicitation and Contract document (including all addenda). The failure or omission of any such bidder to examine any form, instrument or document shall in no way relieve any bidder from any obligation in respect to its bid.
- G. Bidder represents that a complete set of Solicitation Documents was used in preparing the Bid and acknowledges that the County assumes no responsibility for errors or misinterpretations resulting from the use of incomplete sets of Solicitation Documents.

- H. Bidder represents that the submission of this bid constitutes an incontrovertible representation by Bidder that Bidder has complied with every requirement of the Bid, that without exception the Bid premised upon performing and furnishing the Work required by the Solicitation Documents and such means, methods, techniques, sequences or procedures of construction as may be indicated in or required by the Solicitation Documents, and that the Solicitation Documents are sufficient in scope and detail to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.
- I. The Solicitation Documents are intended to describe a functionally complete project to be constructed in accordance with the Contract Documents. Any work, materials, or equipment that may reasonably be inferred from the documents or from prevailing custom or trade usage as being required to produce the intended result will be furnished and performed whether or not specifically required. When words or phrases which have a well-known technical or construction industry or trade meanings are used to describe work, materials or equipment, such words or phrases shall be interpreted in accordance with those meanings. Clarifications and interpretations of the Technical Specifications and Contract Drawings shall be issued by the County.
- J. The quantities appearing in the Bid Schedule, Plans, or other contract documents are approximate only and are prepared for the comparison of bids. Payment to the Contractor will be made only and are prepared for the comparison of bids. Payment to the Contractor will be made only for the actual quantities of Work performed and accepted, or materials furnished in accordance with the contract.
- K. The County reserves the right to obtain a cost breakdown of specific Unit Bid items having lump sum (LS) units of measure during the review process.

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1.5.1 Bid Form

Bidder agrees to perform the work for the following prices:

The TOTAL amounts of the below bid (excluding NMGR) shall be shown in both words and figures. In case of discrepancies, the amount shown in words will govern.

UNITS ACRONYMS		
ACRE = Acre	LB = Pound	SQ. YD. = Square Yard
CU. YD. = Cubic Yard	LIN. FT. = Linear Feet	TON = Ton
EACH = Each	L.S. = Lump Sum	VF = Vertical Feet

Base Bid:

The Bidder agrees to perform all of the work described as the Base Bid in the Solicitation Documents for an amount determined as follows:

ITEM NO.	ITEM DESCRIPTION:	UNIT:	QTY:	UNIT PRICE	COST
GENERAL ITEMS					
1	MOBILIZATION	LS	1	N/A	
2	DEMOBILIZATION	LS	1	N/A	
3	TRAFFIC CONTROL	LS	1	N/A	
4	CONSTRUCTION STAKING, CIP.	LS	1	N/A	
5	CONSTRUCTION SURVEY, CIP.	LS	1	N/A	
UTILITIES					
6	Fiber Optic Cable /Installation	LS	1	N/A	
7	Wooden Pole	LS	1	N/A	
8	Fiber Optic Cable Hardware	LS	1	N/A	
9	Fiber Optic Patch Panel	EACH	2		
10	4" UG Ductbank (2 Conduits) w/ Maxcell Interduct (Spills Substation)	LS	1	N/A	
11	4" UG Ductbank (2 Conduits) w/ Maxcell Interduct (Cooper Ranch)	LS	1	N/A	
12	Communication Pull Boxes	EACH	4		
13	4" Rigid Galvanized Conduit	LS	1	N/A	
14	Electrical Junction Boxes	EACH	2		
15	Miscellaneous Electrical Hardware	LS	1	N/A	
16	Pole Guy Wire/Hardware	EACH	20		
17	Fiber Optic Cable Testing	LS	1	N/A	
18	Fiber Optic Splice Kits and Hardware	EACH	5		
19	Overhead & Underground Fiber Optic Markers	LS	1	N/A	

20	Overhead Wind Dampeners	LS	1	N/A	
21	Clearing, Grubbing, Road Maintenance & Miscellaneous Grading	LS	-	ALLOWANCE	\$50,000
STRUCTURAL					
22	Structural Pole/Hardware	LS	1	N/A	
23	Core drilling	LS	1	N/A	

Total Bid Amount written in words:

_____ Dollars

Note: The bid amount shall exclude state gross receipts tax or local option tax, but shall include all other costs of doing business, including but not limited to bonds, insurance and profit. The Incorporated County of Los Alamos is required to pay the applicable tax including any increase in the applicable tax becoming effective after the date the contract is entered into. The applicable gross receipts tax or local option tax shall be shown as a separate amount on each billing or request for payment under contract. The Incorporated County of Los Alamos reserves the right to reduce or add quantities.

1.5.2 Alternates and Allowances

ADDITIVE ALTERNATE					
A1	Install Fiber Optic Underground Between poles 145 and 146 (Crosses Highway)	LS	1	N/A	

Total Additive Alternate Bid Amount written in words:

_____ Dollars

Note: The bid amount shall exclude state gross receipts tax or local option tax, but shall include all other costs of doing business, including but not limited to bonds, insurance and profit. The Incorporated County of Los Alamos is required to pay the applicable tax including any increase in the applicable tax becoming effective after the date the contract is entered into. The applicable gross receipts tax or local option tax shall be shown as a separate amount on each billing or request for payment under contract. The Incorporated County of Los Alamos reserves the right to reduce or add quantities.

This bid is hereby submitted by the undersigned, in full conformity with the solicitation documents, and warrant that the undersigned. Has the authority to bind the General Contractor for the work.

I the undersigned have reviewed the Summary of Work and certify that the following licenses are required to fully perform the Summary of Work and that I as the General Contractor and/or Sub-contractors to be employed under this contract possess such New Mexico Contractor’s License Number(s) and Classification(s):

Contractor	License Number(s)	Classification(s)

Signature of Agent authorized to sign on behalf of Bidder

Printed Name & Title of Agent

Organization’s Legal Name

Mailing Address

Physical Address

City, State, Zip Code

Telephone Number

Fax Number

Federal Tax I.D Number

NM CRS # (if located in-state)

N.M. Preference Certification (attach copy)

Los Alamos County Business License Number: (Required to perform work in the County)

NOTE: The bid amount shall exclude state gross receipts tax or local option tax, but shall include all other costs of doing business, including but not limited to bonds, insurance, and profit. The Incorporated County of Los Alamos is required to pay the applicable tax including any increase in the applicable gross receipts tax or local option tax shall be shown as a separate amount on each billing or request for payment under the contract. The Incorporated County of Los Alamos reserves the right to reduce or add quantities.

NON-DISCRIMINATION POLICY: This Company does not discriminate on the basis of color, national origin, sex, religion, age, and disabled status in employment or the provision of services.

1.5.3 List of Subcontractors

All Bidders shall comply with the Subcontractor's Fair Practices Act Chapter 13-4-31 to 13-4-43 NMSA 1978, Laws of New Mexico

Pursuant to Section 13-4-34, based on the Architect/Engineer estimate, list all subcontractors including second and third tiers performing work in excess of \$ 5,000.00.

No modifications to the list of subcontractors can be made at any time during the performance of the Work contemplated by the Agreement without the prior written approval of the County.

Contractor & Contact Name:	License # Classification:	E-mail:	Phone: Fax:	Address:	Work to be Performed:

1.5.4 Bid Bond



LOS ALAMOS

As Principal, hereinafter called the Principal or Contractor, and _____, a corporation duly organized and existing under and by virtue of the laws of the State of _____ and authorized to do business in the State of New Mexico, as Surety hereinafter called the Surety, are held and firmly bound unto the County of Los Alamos, New Mexico, as Oblige, hereinafter called the County, in the sum of five percent of the Bid, _____ dollars - \$ _____

for the payment of which sum Principal and Surety bind themselves, their heirs, executors, and administrators, successors, and assigns, jointly and severally. The conditions of this Bond are such that whereas the Principal has submitted the accompanying Bid for:

**Incorporated County of Los Alamos
Bid Number: IFB24-35 El Vado Fiber Optic Line Install**

which Bid is by reference made a part hereof and is hereinafter referred to as the Bid and, if the County shall accept the Bid of the Principal and the Principal shall enter into a Contract with the County in accordance with the terms of such a Bid, and give such bond or bonds as may be specified in the bidding or solicitation documents with good and sufficient surety for the faithful performance of such contract and for the prompt payment of labor and material furnished in the prosecution thereof, and shall in all other respects perform the agreement created by the acceptance of said Bid, or in the event of the failure of the Principal to enter into such contract and give such bond and bonds, if the Principal shall pay the County the difference between the amount specified in said bid and such larger amount which the County may in good faith

Bid Bond continued

contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its Bond shall be in no way Impaired or affected by any extension of the time within which the County may accept such Bid; and said Surety does hereby waive notice of any such extension.

SIGNED AND ATTEST this _____ day of _____, 20_____.

PRINCIPAL:

By: _____

Print Name: _____

Title: _____

ATTEST: _____

SURETY:

By: _____

Print Name: _____

Title: _____

ATTEST: _____

1.5.5 Campaign Contribution Form

Incorporated County of Los Alamos
Bid Number: IFB24-35 El Vado Fiber Optic Line Install

Any prospective contractor seeking to enter into a contract with the Incorporated County of Los Alamos must file this form disclosing whether they, a family member or a representative of the prospective contractor has made a campaign contribution to an applicable public official during the two (2) years prior to the date on which prospective contractor submits a proposal or, in the case of a sole source or small purchase contract, the two (2) years prior to the date prospective contractor signs the contract, if the aggregate total of contributions given by the prospective contractor, a family member or a representative of the prospective contractor to the public official exceeds TWO HUNDRED FIFTY DOLLARS (\$250.00) over the two (2) year period.

THIS FORM MUST BE FILED BY ANY PROSPECTIVE CONTRACTOR WHETHER OR NOT THEY, THEIR FAMILY MEMBER, OR THEIR REPRESENTATIVE HAS MADE ANY CONTRIBUTIONS SUBJECT TO DISCLOSURE.

The following definitions apply:

“Applicable public official” means a person elected to an office or a person appointed to complete a term of an elected office, who has the authority to award or influence the award of the contract for which the prospective contractor is submitting a competitive sealed proposal or who has the authority to negotiate a sole source or small purchase contract that may be awarded without submission of a sealed competitive proposal.

“Campaign Contribution” means a gift, subscription, loan, advance or deposit of money or other things of value, including the estimated value of an in-kind contribution, that is made to or received by an applicable public official or any person authorized to raise, collect or expend contributions on that official’s behalf for the purpose of electing the official to either statewide or local office. “Campaign Contribution” includes the payment of a debt incurred in an election campaign, but does not include the value of services provided without compensation or unreimbursed travel or other personal expenses of individuals who volunteer a portion or all of their time on behalf of a candidate or political committee, nor does it include the administrative or solicitation expenses of a political committee that are paid by an organization that sponsors the committee.

“Contract” means any agreement for the procurement of items of tangible personal property, services, professional services, or construction.

“Family member” means a spouse, father, mother, child, father-in-law, mother-in-law, daughter-in-law or son-in-law of:

- (a) a prospective contractor, if the prospective contractor is a natural person; or
- (b) an owner of a prospective contractor.

“Pendency of the procurement process” means the time period commencing with the public notice of the request for proposals and ending with the award of the contract or the cancellation of the request for proposals.

“Person” means any corporation, partnership, individual, joint venture, association or any other private legal entity.

“Prospective contractor” means a person who is subject to the competitive sealed proposal process set forth in the Procurement Code or is not required to submit a competitive sealed proposal because that person qualifies for a sole source or a small purchase contract.

“Representative of a prospective contractor” means an officer or director of a corporation, a member or manager of a limited liability corporation, a partner of a partnership or a trustee of a trust of the prospective contractor.

DISCLOSURE OF CONTRIBUTIONS: (Report any applicable contributions made to the following - COUNTY COUNCILORS: Theresa Cull; Denise Derkacs; Melanee Hand; Susie Havemann; Keith Lepsch; David Reagor; and Randal Ryti.)

Contribution Made By:			
Relation to Prospective Contractor:			
Name of Applicable Public Official:			
Contribution(s) Date(s)	Contribution Amount(s):	Nature of Contribution(s):	Purpose of Contribution(s):
	\$		
	\$		
	\$		
	\$		
	\$		

(Attach extra pages if necessary)

Please check the box next to the applicable statement.

<input type="checkbox"/>	CONTRIBUTIONS IN THE AGGREGATE TOTAL OVER TWO HUNDRED FIFTY DOLLARS (\$250.00) WERE MADE to an applicable public official by me, a family member or representative, and I have disclosed those contributions.
<input type="checkbox"/>	NO CONTRIBUTIONS IN THE AGGREGATE TOTAL OVER TWO HUNDRED FIFTY DOLLARS (\$250.00) WERE MADE to an applicable public official by me, a family member or representative.

Signature Date

Title (position)

1.5.6 Certification - Debarment, Suspension, and other Responsibility Matters

**Incorporated County of Los Alamos
Invitation for Bids Number IFB24-35 El Vado Fiber Optic Line Install**

The Bidder certifies to the best of its knowledge and belief that it, its principals and its sub-contractors:

- A. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal, State, Local Entity;
- B. Have not within a three (3) year period preceding this bid been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or Local) transaction or contract under a public transaction. Violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property
- C. Are not presently indicted for otherwise criminally or civilly charged by a Federal, State, or Local Entity with commission of any of the offenses enumerated in paragraph (1) (B) of this certification; and
- D. Have not within a three (3) year period preceding this application/bid had one or more public transactions (Federal, State, or Local) terminated for cause or default.

I understand that a false statement on this certification may be grounds for rejection of this bid or termination of the award.

In addition, under 18 U.S.C. Sec. 10 01, a false statement may result in a fine up to \$ 10,000 or imprisonment for up to five (5) years, or both if Federal funding is used.

Typed Name & Title of Authorized Representative

Signature of Bidder’s Authorized Representative

Date

Comments:

Date: _____

Contractor: _____

Address: _____

City, State, Zip Code: _____

_____ confirms that all proposed subcontractors are not currently

Contractor

suspended or debarred from conducting business with any City, State, County, or Federal Government entities.

Name and Title of Authorized Representative

Date

--- OR ---

I am unable to certify the above for the following reasons:

1.5.7 Permanent Main Office Address of Company

Organization's Legal Name Founding Date

Physical Address

Mailing Address

City, State, Zip Code

If incorporated, attach a Certificate of Good Standing from the Public Regulation Commission.

1.5.8 Authorization for Verification of Information

_____ hereby authorizes any person, firm, or corporation to furnish

Contractor

any information requested by Los Alamos County or designated representative, to verify any and all information submitted with or relevant to this bid.

Printed Name and Title of Authorized Representative

Signature

Date

Sec. 31-261. - State and local preferences.

(a) *Definitions.* For the purposes of this section:

- (1) The terms "resident business" and "resident veteran business" shall be defined as set out in NMSA 1978, § 13-1-21;
- (2) The term "local" as applied to a business shall mean that it meets the requirements of the above definition, maintains its principal office and place of business in Los Alamos County, and has a required Los Alamos County business license.

(b) *Requirements for preference qualification.* The chief purchasing officer shall determine if a preference is applicable to a particular bid or offer on a case-by-case basis. A bidder or offeror must submit a written request for preference, with a copy of the state-issued preference certificate, with its bid or proposal to qualify for this preference.

- (1) If a corporation, it shall be incorporated in New Mexico and maintain its principal office and place of business in the state;
- (2) A person shall have qualified with the state chief purchasing officer as a resident business or resident veteran business and obtained a certification number as provided in NMSA 1978, § 13-1-22.

- (c) *Preference factor.*
 - (1) The preference factor for qualifying resident and local businesses applied to bids and proposals shall be five percent.
 - (2) The preference factor for qualifying resident veteran businesses shall be in accordance with the requirements set forth in NMSA 1978, § 13-1-21.
- (d) *Invitations for bids.* When bids are received, the price quoted by the qualifying vendor shall be multiplied by 0.95. After application of the preference factor, the contract shall be awarded to the lowest bidder. If one or more low prices are equal, the bid shall be awarded with respect to the next category of offerors listed below, and the next, until an offer qualifies for award. The priority of categories of offers is as follows:
 - (1) Local business;
 - (2) Resident business.
- (e) *Requests for proposals.* When proposals are received, the total evaluation score with or without the cost factor of each proposal received from a qualifying vendor shall be multiplied by 1.05. After application of the factor, the contract shall be awarded to the highest score. If one or more scores are equal, the same procedure shall be followed with respect to the next category of offerors listed, and the next, until an offer qualifies for award. The priority of categories of offerors is the same as listed in subsection (d) of this section.
- (f) *Exemptions from preferences.* The resident and local preference specified in this article shall not be applied:
 - (1) To requests for qualifications;
 - (2) To any purchase of goods or services in excess of \$500,000.00;
 - (3) When the expenditure of federal funds designated in whole or in part for a specific purchase is involved; or
 - (4) When the expenditure of grant funds, a condition of which prohibits a local preference, is involved.

(Ord. No. 02-098, § 2, 12-2-2008; Ord. No. 02-305, § 8, 2-25-2020)

Are you requesting Preference?

YES NO

By answering “yes,” the bidder or offeror is submitting a written request for preference.

A Bidder or Offeror must submit a copy of the state-issued preference certificate with its bid or proposal to qualify for this preference.

1.5.9 Certificate of Contractors Registration

Sample
Certificate of Contractor Registration



This is to certify that

XYZ Company, Inc.

1234 Main Street

ALBUQUERQUE, NM, 87109-5564

has registered with the Department of Workforce Solutions

Registration Date: 01/01/2017

Registration Number: 123456789

**This certificate does not show the current status of the company.
To see the current status for this company please go to the Public Works
and Apprenticeship Application (PWAA) at
<https://www.dws.state.nm.us/pwaa>**

2.0 AWARD PHASE

2.1 Award Forms

2.1.1 Notice of Award



LOS ALAMOS

NOTICE OF AWARD AND IDENTIFICATION OF COUNTY’S DESIGNEE

To: _____

Address: _____

Project Description:

**Incorporated County of Los Alamos
Invitation for Bids Number: IFB24-35 El Vado Fiber Optic Line Install**

Notice of Award:

The County has considered the Bid submitted by you for the above described Project in response to its Invitation for Bids dated _____, 2023.

You are hereby notified that your Bid has been accepted subject to your executing the Agreement and furnishing the required Contractor’s Performance Bond, Labor and Materials Payment Bond and required Certificates of Insurance, within ten (10) calendar days from the date of receipt of the Notice of Award.

You are hereby notified that the schedule required per Section 3, Schedules, Reports, and Records will be required to be submitted and accepted prior to Notice to Proceed being issued.

The following documents are provided with the Notice of Award: Two (2) copies of the Agreement, Performance Bond and Labor and Materials Payment Bond.

Notice of Award continued

If you fail to sign and return to County's Designee said Agreement, and to furnish said Bonds within ten (10) days from the receipt of this notice, the County will be entitled to consider all your rights arising out of the County's acceptance of your Bid as abandoned and as a forfeiture of your Bid Bond. The County will be entitled to such other rights as may be granted by law.

County's Designee:

The Incorporated County of Los Alamos (County) designates _____ as the County's Designee in connection with the performance of the work contemplated in the Contract, dated _____, between the County and _____ (Contractor).

Dated this _____ day of _____ 20 _____.

Incorporated County of Los Alamos

Philo S. Shelton, III P.E.
Utilities Manager

2.1.2 Receipt of Notice of Award



LOS ALAMOS

Receipt of the above Notice of Award is hereby acknowledged by:

_____, this _____ day of _____, 20____,

for the following project:

**Incorporated County of Los Alamos
Invitation for Bids Number: IFB24-35 El Vado Fiber Optic Line Install**

CONTRACTOR:

By: _____

Printed Name: _____

Title: _____

2.1.3 Performance Bond



LOS ALAMOS

Bond No. _____

We as Principal, hereinafter referred to as Contractor, and _____ a corporation organized and existing under and by the virtue of the laws of the State of _____ and authorized to do business in the State of New Mexico, hereinafter called Surety, are held and firmly bound unto the Incorporated County of Los Alamos, hereinafter referred to as County, in the penal sum of one hundred percent (100%) of the Contract Price of _____ dollars (\$ _____), as may be adjusted by Change Order, inclusive of applicable gross receipts taxes in lawful money of the United States of America, for the payment of which sum Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally.

THE CONDITIONS OF THIS BOND are such that, whereas, Contractor has been awarded and has agreed to enter into a certain Contract with the Incorporated County of Los Alamos, to which this Performance Bond will be attached and incorporated therein, for performance of Work or services on Project specifically described in the Contract document for:

**Incorporated County of Los Alamos
Invitation for Bids Number: IFB24-35 El Vado Fiber Optic Line Install**

and if Contractor shall perform and complete all of the undertakings, covenants, terms, and obligations of said Contract during the original term thereof, and any extensions which may be granted by the County with or without notice to the Surety, and if Contract shall satisfy all claims and demands incurred under such Contract, and shall fully indemnify and save harmless the County from all costs and damages which it may suffer by reason of failure to do so, and shall reimburse and repay the County all outlay and expenses which the County may incur in making good any default, then this obligation shall be void; otherwise it shall be and remain in full force and effect.

Performance Bond Continued

Any suit under this bond must be instituted before the expiration of two (2) years from the date on which final payment under the Contract falls due, except that, with respect to express guarantees of a longer term, a suit thereon must be initiated within six (6) months following the expiration of said express guarantees, if any.

The Surety acknowledges that said Contract may contain express guarantees and agrees that said guarantees, if any, are covered by the Surety's obligation hereunder.

Right of action with respect to any express guarantees, if any, in said Contract shall accrue following completion and formal acceptance of the work under said contract.

The right to sue on this bond accrues only to the contracting agency and the parties to whom New Mexico Statutes Annotated, 1978 Comp. 13-4-18 through 13-4-20, as amended, grant such right; and such right shall be exercised only in accordance with the provisions and limitation of said statutes.

PROVIDED, FURTHER, that Surety, for value received hereby stipulates and agrees that no change, extensions of time, alteration or addition to the terms of Contract. The Agreement, or the work to be performed thereunder, or the Contract Documents accompanying the same, shall in any way affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alternation or addition to the terms of the Contract.

PROVIDED, FURTHER, that no final settlement between the County and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument may be executed in two counter-parts, each one of which shall be deemed as an original, this _____ day of _____, 20_____.

The undersigned state that they have the authority to enter into said Contract.

CONTRACTOR AS PRINCIPAL:

By: _____

Print Name: _____

Title: _____

ATTEST: _____

SURETY:

By: _____

Print Name: _____

Title: _____

ATTEST: _____

2.1.4 Payment (Labor and Materials) Bond



LOS ALAMOS

Payment (Labor and Materials) Bond for the Protection of all Persons Supplying Labor and Material to the Contractor or its Sub-contractors

Bond No. _____

We _____ as Principal, hereinafter called the Contractor, and _____, a Corporation organized and existing under and by virtue of the laws of the State of _____, and authorized to do business in the State of New Mexico, hereinafter called the Surety, are held and firmly bound unto the Incorporated County of Los Alamos as Obligee, hereinafter the County , in the amount of _____ Dollars (\$_____), in the penal sum of one hundred percent (100%) of the Contract Price of _____ dollars (\$_____), as may be adjusted by Change Order, inclusive of applicable gross receipts taxes in lawful money of the United States of America, for the payment of which sum Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally.

Payment (Labor and Materials) Bond is for the Protection of all Persons Supplying Labor and Material to the Contractor or its Sub-contractors

WHEREAS, Contractor has agreed to enter into the Contract described as follows:

**Incorporated County of Los Alamos
Invitation for Bids Number: IFB24-35 El Vado Fiber Optic Line Install**

Which contract is by reference made part hereof, and is hereinafter referred to as the Contract.

NOW, THEREFORE, the condition of this obligation is such that if the Contractor shall pay as they become due, all just claims for labor performed and materials and supplies furnished upon or for the work under said contract, whether said labor be performed and materials and supplies be furnished under the original contract or any contract thereunder, then this obligation shall be null and void; otherwise, it shall remain in full force and effect, subject, however to the following conditions:

The right to sue on this bond accrues only to the Contracting Agency and the parties to whom Section 31-173 Los Alamos County Code of Ordinances grant such right; and any such right shall be exercised only in accordance with the provisions and limitations of said ordinance.

PROVIDE, FURTHER, that the Surety, for value received hereby stipulates and agrees that no change, extensions of time, alteration, or addition to the terms of the Contract, or to the Work to be performed thereunder, shall in any way affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract.

PROVIDE, FURTHER, the County shall not be liable for payment of any costs or expenses of any Claimant under this Bond, and shall have no obligations to make payments to give notices on behalf of or otherwise have obligations to Claimants. The Surety hereby waives notice of any change, including changes of time, to the Contractor or to related subcontracts, purchase orders and other obligations.

SIGNED AND SEALED ON this _____ day of _____, 20 _____

CONTRACTOR AS PRINCIPAL:

Signature: _____

Print Name: _____

Title: _____

Address: _____

SURETY'S AUTHORIZED NEW MEXICO AGENT:

Signature: _____

Print Name: _____

Title: _____

Address: _____

This bond is issued simultaneously with Performance Bond in favor of County for the faithful performance of the contract.

2.1.5 Insurance Requirement



LOS ALAMOS

- A. Contractor shall purchase and maintain such liability and other insurance including completed operations insurance for the Work being performed and furnished and will provide protection from claims set forth which may arise out of or result from Contractor's performance and furnishing of the Work being performed and furnished and will provide protection from claims set forth which may arise out of or result from Contractor's performance and furnishing of the Work and Contractor's other obligations under the Solicitation Documents, whether it is to be performed or furnished by Contractor, any Subcontractor or Supplier or by anyone directly or indirectly employed by any of them to perform or furnish any of the Work, or by anyone for whose acts any of them may be liable. Insurance requirements are as follows:
- A.1.1. Comprehensive and General Liability Insurance
 - A.1.2. \$1,000,000 per occurrence and a combined single limit of at least Two Million Dollars (\$2,000,000) aggregate Bodily Injury and Property
 - A.2. Motor Vehicle Insurance
 - A.2.1. Same limits as Comprehensive General Liability Insurance whether for:
 - A.2.1.1. Owned or leased motor vehicles; or non-owned or hired vehicles
 - A.3. Worker's Compensation Insurance
 - A.3.1. The Contractor shall also be required to provide proof of full compliance with New Mexico State Worker's Compensation Laws
 - A.4. Property, Fire, and All Risk Insurance
 - A.4.1. Contractor shall purchase and maintain until final payment, property insurance upon the Work at the site to the full insurable value thereof.
 - A.4.2. This insurance shall insure against the perils of "all risk" insurance for physical loss and damage, and shall include damages, losses, and expenses arising out of or resulting from any insured loss or incurred in the repair or replacement of any insured property (including but not limited to fees and charges of engineers, architects, attorneys, and other professional). If not covered under the "all risk" insurance, Contractor shall purchase and maintain similar property insurance on portions of the Work stored on and off the site or in transit when such portions of the Work are to be included in an Application for Payment.

- B. The Contractor, prior to signing the Contract, shall provide proof of insurance coverage, which is satisfactory to the County, in the County's sole discretion, and copies of same to the County which shall remain in effect at least until final payment and at all times thereafter when Contractor may be correcting, removing or replacing defective Work.

B.1. Insurance Terms and Conditions

- B.1.1. The following statement shall be included on the certificate of insurance: "The Incorporated County of Los Alamos is named as additional insured regarding General Liability, Automobile Liability, and Professional Liability if required, for

**Incorporated County of Los Alamos
Invitation for Bids Number: IFB24-35 El Vado Fiber Optic Line Install**

- B.1.2. The insurance shall provide that the County will be notified as soon as possible in the event of cancellation.

B.2. Renewal of Insurance

- B.2.1. Evidence of renewal of insurance policies shall be provided to the County no less than forty-five (45) days prior to expiration date.

B.3. Subcontractors

- B.3.1. Contractor shall ensure all of its subcontractors meet all insurance requirements.

B.4. Receipt and Application of Insurance Proceeds

- B.4.1. Any insured loss under the policies of insurance required of Contractor will be adjusted with County and made payable to County as fiduciary for the insured's, as their interests may appear, subject to the requirements of any applicable loan clause. County shall deposit into a separate account any money so received and shall distribute it in accordance with such agreement as the parties in interest may reach. If no special agreement is reached, the damaged Work shall be repaired or replaced the monies so received applied on account thereof and the Work and the cost thereof covered by an appropriate Change Order or Written Agreement.

- B.4.2. County as fiduciary shall have power to adjust and settle any loss with insurers unless one of the parties in interest shall object in writing within fifteen days after the occurrence of loss to County's exercise of this power. If such objection be made, County as fiduciary shall make agreement as the parties in interest may reach. If no such agreement among the parties in interest is reached, County as fiduciary shall adjust and settle the loss with the insurers and, if required in writing by any party of interest, County as fiduciary shall give bond for the proper performance of such duties.

2.1.6 Contract

Incorporated County of Los Alamos Invitation for Bids Number: IFB24-35 El Vado Fiber Optic Line Install

THIS CONTRACT, made and entered into by and between the Incorporated County of Los Alamos, New Mexico, hereinafter called the County and _____, a _____ (State and entity status), hereinafter called the CONTRACTOR, is executed on the date set forth opposite the signature of the authorized representatives of the parties.

WHEREAS, the Contractor was awarded the Contract for the Incorporated County of Los Alamos: **Invitation for Bids Number IFB24-35, El Vado Fiber Optic Line Install** and said award was approved by the County on _____, which date shall be deemed to be the date of this Contract.

THE PARTIES AGREE:

ARTICLE 1 – SUBJECT MATTER – The Contractor shall perform the Work, and shall furnish all the materials, equipment, tools, labor and all supplies, appliances, and appurtenances necessary to the full completion of the Work on the Project, and in accordance with the language of the Contract and the Solicitation documents. The term “Contract” means the Solicitation. The Work shall be performed in accordance with the Contract, which shall be interpreted to give full effect to all of the terms and conditions herein. In the event of a conflict in the terms and provisions of the Contract, the terms and provisions of the Contract shall control in the following order:

- A. Change Orders
- B. Addenda
- C. Contract
- D. Notice to Contractors
- E. Special Conditions
- F. General Conditions
- G. Technical Specifications
- H. Contract Drawings

ARTICLE 2 – CONTRACT TIME –

- A. Construction shall start on or after the date specified on the Notice to Proceed. **The Work shall achieve Substantial Completion by August 1, 2024. The Project shall achieve Final Completion by September 1, 2024.** The calendar day period between the substantial completion and final completion dates is for the sole purpose of completing all punch list items.
- B. The Contractor will proceed with the Work at such rate of progress to ensure full completion of the Work by the Final Completion date. It is expressly understood and agreed, by and between the Contractor and the County, that the Contract Time for the completion of Work described herein is a reasonable time, and that in submitting a bid on the Project and executing the Contract, the Contractor has taken into consideration the average climatic and economic conditions and other factors prevailing in the locality where the Work is to be performed.

C. Termination of the Contract-

1. This contract shall terminate upon County's issuance of Notice of Final Completion, provided however, that Contractor's warranty obligations and any warranties listed within the Technical Specifications for materials, equipment, systems and/or labor supplied through the Contractor for the execution of the Work shall survive the termination of this Contract until such time as County determines that Contractor's warranty obligations have been fulfilled and County has specifically released Contractor, in writing or by the individual warranty expirations, from such obligations. The issuance of Notice of Final Completion or the release of surviving Contractor obligations shall not be deemed a waiver of any claim the County may have against Contractor arising from Contractor's performance under this Contract.
2. County may terminate this Agreement with or without cause upon ten (10) days prior written notice to Contractor. Upon such termination, Contractor shall be paid for work actually completed to the satisfaction of County at the rates agreed upon by the parties hereto. Contractor shall render a final report of the work done to the date of termination and shall turn over to County originals of all materials, documents or other deliverables prepared pursuant to this Contract.
3. Funding. This Agreement shall terminate without further action by County on the first day of any County fiscal year for which funds to pay compensation hereunder are not appropriated by the County Council. County shall make reasonable efforts to give Contractor at least ninety (90) days advance notice that funds have not been and are not expected to be appropriated for that purpose.

ARTICLE 3 – LIQUIDATED DAMAGES FOR DELAY OR INCENTIVES FOR EARLY COMPLETION –

- A. Should the Contractor fail to complete the work within the time agreed upon in the Contract, Contractor will be assessed **\$1,000.00** per day for each calendar day beyond the Milestone. Substantial, and/or Final Completion dates, including all executed change orders. In view of the difficulty of estimating the damage, this amount is fixed by parties as the liquidated damages that the County will suffer by reason of such default and not by way of penalty.

B. Delays –

1. If the Contractor is delayed at any time in the progress of the Work by any act or neglect by the County, or by changes in the Work, or by labor disputes, fire, unusual delay in transportation, unusual weather, adverse soil conditions other than was described in a geotechnical survey, unavoidable loss by the Contractor, delays specifically authorized by the County, or by unforeseeable or unavoidable causes beyond the Contractor's control, avoidance, or mitigation, and without the fault or negligence of the Contractor or subcontractor or supplier at any tier, then the Contract Time may be extended by Change Order for such reasonable time as the overall completion of the Work, as the County may in its sole discretion determine that such event has delayed the Critical Path and Completion of the Work, if the Contractor complies with the notice and documentation requirements set forth below.
2. Contractor shall provide a written notice of delay which may result in a request for an extension of time to the County, within ten (10) calendar days from the date the Contractor knew or should have known of the facts giving rise to the delay. The notice shall indicate the cause of the delay, the anticipated length of the delay, and the probable effect of such delay upon the progress of the Work. If the cause of the delay is continuing, the Contractor must give written notice every month at the same time it submits the updated schedule and/or progress report to the County with the Payment Application.
3. Within fifteen (15) calendar days after the elimination of any such delay, the Contractor shall submit a formal Change Order request for an extension of time for such delay. The written request for time extension shall state the cause of the delay, the number of days extension requested, and such analysis and documentation of the schedule of the project and other documentation to demonstrate a delay in the critical path of the Work.
4. If the Contractor does not comply with the notice and documentation requirements set forth above, the Contractor shall have waived its right to a claim for delay.

C. An incentive for early completion if applicable shall apply to each calendar day the work is substantially complete prior to Milestone or Substantial Completion date up to a maximum number days as assigned.

1. The incentive payments for this contract are assigned at \$0.00 per day.

ARTICLE 4 – COMPENSATION – In consideration of the satisfactory performance of the Work by the Contractor and the acceptance of such Work by the County, Contractor shall be paid an amount not to exceed the Contract Price of _____ (\$ 000,000.00), plus any executed Change Order(s), plus applicable New Mexico Gross Receipts Tax

ARTICLE 5 – PROGRESS PAYMENTS –

- A. Contractor shall submit (but not more often than once a month), to the County for review an Application and Certification for Payment as shown herein, filled out and accompanied by such supporting documentation as is required by the Agreement and also as the County may reasonably require. The County has seven (7) calendar days to review the Application

for Progress Payment either to accept or reject. If application is rejected, Contractors shall resubmit a new Application for Progress Payment. Upon any re-submittal of Application for Progress Payment, the twenty-one (21) calendar day time frame is reinstated. These applications for payments shall be based on the performance of the Work in accordance with the Contract Documents. Contractor shall submit Earned Value Curve if required by the Project Manager with each Application for Payment,

- B. Contractor warrants and guarantees that title to all work, material and equipment covered by an Application for Progress Payment, whether incorporated in the Project or not, will pass to County at the time of payment free and clear of all liens, claims, security interests and encumbrances.
- C. Prior to Substantial Completion, the County with the concurrence of the Contractor may use any completed or substantially completed portions of the Work. Such use shall not constitute an acceptance of such portions of the Work.
- D. As provided herein, County may refuse to make payment of the full amount requested by the Contractor. County will provide Contractor with written notice (with copy to Engineer) stating the reasons for such action.
- E. If payment is requested and approved by the Project Manager on the basis of materials and equipment not incorporated in the Work, but delivered and suitably stored at the site or at another location agreed to in writing, the Application for Progress Payment shall also be accompanied by such data, (receipts, invoices, packing lists, delivery tickets, etc.) satisfactory to Owner and will establish Owner's title to the material and equipment and project. Contractor is responsible for all loss or damage to stored materials.
- F. Contractor warrants and guarantees that title to all Work, materials and equipment covered by any Application for Payment, whether incorporated in the Project or not, will pass to County no later than time of payment, free and clear of all liens.
- G. In the event that agreement between the County or County's designee and Contractor cannot be reached, the County will pay the portion not in question and attempt to reach agreement on those portions not in agreement in the next billing cycle.
- H. Payment may be made by mutually agreed upon method.
- I. County has full power to withhold payment and release of Contractor's Performance as well as Labor and Materials Bonds until all the work is completed to the County's satisfaction, until the Contractor shall satisfy the County that it has fully settled or paid for all labor performed and materials, supplies, equipment rentals and services used from the respective suppliers and subcontractors involved, and to withhold payment equal to liquidated damages as accepted payment for liquidated damages.
- J. County at its sole discretion may require an Affidavit of Payment and Release of Liens with every Application.
- K. Unless otherwise specified in the Solicitation Documents as a Notice of Extended Payment, permitting the Owner to make payment within a period not to exceed 45 days, payments shall be made within twenty-one (21) calendar days from receipt of an undisputed request in accordance with the New Mexico Prompt Payment Act, Sections 57-28-1 et seq. NMSA 1978.
- L. Final Application for Payment

- L.1. The final Application for Progress Payment shall include a notarized Affidavit of Payment and Release of Liens.
- L.2. After Contractor has completed all such corrections to the satisfaction of the County and delivered in accordance with the Contract Documents all maintenance and operating instructions, all materials including but not limited to spare parts, lubricants, etc., as required by Contract documents, schedules, guarantees, bonds, certificates or other evidence of insurance, certificates of inspection, Notice of Termination for NPDES, marked up record documents showing work as constructed (as-builts), video tapes, Contractor may make application for final payment following the procedure for progress payments. The final Application for Payment shall be accompanied (except as previously delivered) by all documentation called for in the Contract Documents, including but not limited to the evidence of insurance required, consent of surety, if any, to final payment, and complete and legally effective releases or waivers (satisfactory to County) of all liens arising out of or filed in connection with the Work. If any subcontractor or supplier fails to furnish such release or receipt in full, Contractor may furnish a bond or other collateral satisfactory to Owner to indemnify Owner against any lien.
- M. Final Payment and Acceptance
 - M.1. On the basis of the Engineer's and Owner's observation of the Work during construction and final inspection and Engineer's review of the final Application for Payment and accompanying documentation as required by the Contract Documents, Engineer recommends to Owner that the Work has been completed and Contractor's other obligations under the Contract Documents have been fulfilled, Owner shall process final payment. Otherwise, County will return the Application to Contractor, indicating in writing the reasons for refusing to recommend final payment, in which case Contractor shall make the necessary corrections and resubmit the Application.
- N. The final payment by the County signifies that the Work has been accepted by the County under the conditions of the Contract Documents.
 - N.1. The acceptance by the Contractor of final payment shall be and shall operate as a release to the County of all claims and all liability to the Contractor other than claims in stated amounts as may be specifically expected by the Contractor for all things done or furnished in connection with this Work and for every act and neglect of the County and others relating to or arising out of this Work. Any payment, however, final or otherwise, shall not release the Contractor or the Contractor's sureties from any obligations under the Solicitation documents or the Performance Bond and Labor and Materials Bond.
- O. The making and acceptance of Final Payment shall constitute a waiver of all claims by the Contractor against the County other than those previously made in writing and still unsettled.

ARTICLE 6 – PAYMENT TO MECHANICS AND LABORERS – Contractor agrees to make prompt payment to its subcontractors and suppliers for work performed under the Contract within seven (7) days after receipt of payment from the County and to pay all mechanics and laborers in accordance with Section 57-28-5 NMSA 1978, as applicable. Contractor shall obtain from each supplier of services or materials used in the performance of the Contractor's obligations under this Contract a written release and waiver of all liens against the County and Project. Such releases and waivers of lien shall be submitted to the County with the final Application for Payment and may be required with each Application for Payment at the County's sole discretion.

Additionally, all Sub-contractors shall require that their Sub-contractors and suppliers make prompt payment to their Sub-contractors and suppliers for amounts owed for work performed on the construction project within seven days after receipt of payment from the owner, contractor or Sub-contractors

If the contractor or Sub-contractors fails to pay the contractor's or Sub-contractor's subcontractor and suppliers by first-class mail or hand delivery within seven days of receipt of payment, the contractor or subcontractor shall pay interest to the subcontractors and suppliers beginning on the eighth day after payment was due, computed at one and one-half percent of the disputed amount per month or fraction of a month until payment is issued. These payment provisions apply to all tiers of contractors, subcontractors and suppliers.

ARTICLE 7 – MODIFICATION OF CONTRACT – This Contract may be modified only by mutual written consent of the parties.

ARTICLE 8 – INDEMNITY – Contractor shall indemnify, hold harmless and defend County, its Council members, employees, agents and representatives, from and against all liabilities, damages, claims, demands, actions (legal or equitable), and costs and expenses, (including without limitation fees for attorneys and other professionals, of any kind or nature), arising from Contractor's performance or failure to perform hereunder or breach hereof or the performance or failure to perform of Contractor's employees, agents, representatives and subcontractors.

All representations, indemnifications, warranties, and guarantees made in, required by or given in accordance with the Contract, as well as all continuing obligations indicated in the Contract, will survive final payment to the extent permitted by New Mexico or other applicable law, completion and acceptance of the Work and termination or completion of the Agreement.

ARTICLE 9 – NON-ASSIGNMENT – Contractor may not assign this Agreement or any privileges or obligations herein without the prior written consent of the County.

ARTICLE 10 – LAWS, REGULATIONS, JURISDICTION AND VENUE – Contractor shall abide by all applicable federal, state and local laws, regulations, and policies and shall perform the Work in accordance with all applicable laws, regulations, and policies during the term of the Contract. In any lawsuit or legal dispute arising from the operation of this Contract Contractor agrees that the laws of the State of New Mexico shall govern. Venue shall be in the First Judicial District court of New Mexico in Los Alamos County, New Mexico.

IN WITNESS whereof the parties have executed this Contract.

CONTRACTOR

Date: _____

By: _____

Print Name: _____

Title: _____

INCORPORATED COUNTY OF LOS ALAMOS:

Date: _____

By: _____
Philo S. Shelton, III P.E., Utilities Manager

ATTEST

By: _____
Naomi Maestas, County Clerk

APPROVED AS TO FORM

J. Alvin Leaphart, County Attorney

3.0 CONSTRUCTION PHASE

3.1 Construction Phase Related Forms

3.1.1 Contractor Personnel Information

The Contractor will provide at the pre-construction meeting and update as necessary the following information to the County:

- A. Contractor's Project Manager: _____
- B. Contractor's Superintendent: _____
 - 1. Address: _____
 - 2. Telephone No.: _____
 - 3. Email Address: _____
- C. Emergency Contact Information:
 - 1. Name: _____
 - 2. Phone No.: _____
 - 3. Name: _____
 - 4. Phone No.: _____
 - 5. Name: _____
 - 6. Phone No.: _____
 - 7. Name: _____
 - 8. Phone No.: _____
- D. List of authorized signatures for: Certified Payroll, Payroll Affidavits, Change Orders, Progress Payment Certifications.
 - 1. Name: _____
 - 2. Title: _____
 - 3. Name: _____
 - 4. Title: _____
- E. Project Safety Officer: _____
- F. Equal Employment Opportunity Officer: _____

The person listed in "B" will become the Contractor's Representative of Record. The Contractor will not be allowed more than one (1) Representative. The Contractor's Representative shall supervise the project and be available at all times when construction is in progress.

3.1.2 Notice to Proceed

Date: _____

To: _____

Address: _____

**Incorporated County of Los Alamos
Invitation for Bids Number: IFB24-35 El Vado Fiber Optic Line Install**

You are notified that the Contract time under the above contract will start on _____, 20___. By that date you are to start performing your obligations under the Contract. You are required to return an acknowledged copy of this Notice to Proceed to the County's Designee before commencing any work and meet all other requirements of the Contract. The date of Substantial Completion of all work is therefore _____, 20___, and Final Completion of all work is therefore _____, 20___.

Incorporated County of Los Alamos

Philo S. Shelton, III P.E.
Utilities Manager

3.1.3 Acceptance of Notice to Proceed

Receipt of the Notice to Proceed is hereby acknowledged this _____ day of _____, 20____
for the following project:

**Incorporated County of Los Alamos
Invitation for Bids Number: IFB24-35 El Vado Fiber Optic Line Install**

CONTRACTOR:

By: _____

Print Name: _____

Title: _____

3.1.4 Application and Certification for Payment Part 1



APPLICATION & CERTIFICATION FOR PAYMENT County of Los Alamos

Application Date: _____ Period From: _____ To _____
 Application Number: _____
 Project: _____ Bid Number: _____
 Contractor: _____
 Contract Date: _____

Change Order Summary		ADDITIONS	DEDUCTIONS
Change Orders approved in previous months by County			
TOTAL			
Approved this Month			
Number	Date		
TOTALS			
Net change by Change Orders			

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all Amounts have been paid by the Contractor for Work which previous Certificates for Payment were issued and payments received from the County, and that Current Payment shown herein is now due.

CONTRACTOR:

BY: _____ DATE: _____

State of _____ County of _____

Subscribed and sworn before me this _____ day of _____ 20____

Notary Public: _____

My Commission Expires: _____

This certificate is not negotiable. The Amount Certified is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

1. ORIGINAL CONTRACT SUM \$ _____
2. Net change by Change Orders \$ _____
3. CONTRACT SUM TO DATE \$ _____
(Line 1 plus line 2)
4. TOTAL COMPLETED TO DATE \$ _____
(Column F on Cont. Sheet)
5. BALANCE TO FINISH \$ _____
(Line 3 less Line 4)
6. PREVIOUS TOTAL COMPLETED \$ _____
(Line 4 from prior Application)
7. SUBTOTAL OF CURRENT PAYMENT \$ _____
(Line 4 less Line 6)
8. **N.M. GROSS RECEIPTS TAX** \$ _____
(_____% of Line 7)
9. CURRENT PAYMENT DUE \$ _____
(Line 7 plus Line 8)

ENGINEER'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents based on on-site observations and the data comprising the above application, the ENGINEER'S Project Manager certifies to the Owner that to the best of the ENGINEER'S Project Manager's knowledge, information and belief the Work has progressed as indicated, the quantity of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the Amount Certified.

AMOUNT CERTIFIED: \$ _____
(Attach explanation if amount certified differs from the amount applied for.)

ENGINEER'S PROJECT MANAGER:

BY: _____ DATE: _____

3.1.6 Affidavit of Payment and Release of Liens

Affidavit of Payment and Release of Liens

Page 1 of 2

See page 2 of this form for instructions regarding (A)-(H)

To All Whom It May Concern, To The Following I Do Solemnly Swear And Affirm:

WHEREAS, the undersigned has been employed by (A)

to furnish labor and materials for (B)

work, under a contract (C)

for improvement of the premises described as (D)

in the (E) _____ County of _____,

State of New Mexico of which _____ is the Owner.

NOW, THEREFORE, this _____ day of _____, 20____, for and in consideration of the sum of (F) \$ _____ Dollars paid simultaneously herewith, the receipt whereof is hereby acknowledged by the undersigned, the undersigned does hereby waive and release any lien rights to, or claim of lien with respect to and on said above described premises, and the improvements thereon, and on the monies or other considerations due or to become due from the Owner, on account of labor, services, materials, fixtures, apparatus or machinery heretofore or which may hereafter be furnished by the undersigned to or for the above described premises by virtue of said contract.

The undersigned, as Contractor for the above named Contract pursuant to the Conditions of the Contract hereby certifies that, except as listed below, he/she has paid in full or has otherwise satisfied all obligations for all materials and equipment furnished, for all work, labor, and services performed, and for all known indebtedness and claims against the Contractor for damages arising in any manner in connection with the performance of the Contract referenced above for which the Owner or his/her property might in any way be held responsible.

The undersigned hereby certifies that all work required to be done under terms of the above described Contract has been fully performed and completed in conformance with the Contract and that applicable provisions of the New Mexico Public Works Minimum Wage Act (§ 13-4-11 NMSA 1978) have been met.

Affidavit of Payment and Release of Liens
Page 2 of 2

EXCEPTIONS:(G)

INSTRUCTIONS:

1. Person or firm with whom you agreed to furnish either labor, or services, or materials, or both. (A)
2. Fill in the nature and extent of work; strike the word labor or the materials if not in the contract. (B)
3. Identify contract(s) by number, description, and extent of work. (C)
4. Describe improvements and location of the premises to exclude all others. (D)
5. Name community, such as City of _____, Village of _____, or Unincorporated Area known as _____. (E)
6. Amount shown should be the amount actually received and equal to the total adjusted contract. (F)
7. If none, write "None". If required by Owner, Contractor shall furnish bond satisfactory to Owner for each exception. (G)
8. If waiver is for a corporation, corporate name should be used, corporate seal affixed and title of officer signing affidavit should be set forth; if waiver is for a partnership, the partnership name should be used, partner should sign and designate as partner. (H)

(H) _____
(Name of sole ownership, corporation or partnership)

(Signature of Authorized Representative)

TITLE: _____

State of _____ County of _____

Subscribed and sworn before me this ___ day of _____ 20_____

Notary Public: _____

My Commission Expires: _____

3.1.7 Field Order

Field Order #	Project:	Date:
IFB #:	Affected Document(s):	
Description of Change(s) (Attach to Design Document Mark-ups):		
Reason For Change(s):		
<input type="checkbox"/> Design Error/Omission <input type="checkbox"/> Design Improvement <input type="checkbox"/> Facilitate Construction <input type="checkbox"/> Criteria Change <input type="checkbox"/> As-found Condition/Record <input type="checkbox"/> Other (describe): _____		
Priority: Low Medium High (Circle One)		
Complexity: Low Medium High (Circle One)		
Preliminary Approval To Proceed By Engineer:		
Review		
	Signature	Date
Originator		
Engineer		
Owner		
Contractor		
Request for Quote issued? _____ Date: _____		
Force Account: _____ Date: _____		
ACCEPTED	<input type="checkbox"/>	Owner
REJECTED	<input type="checkbox"/>	Owner

3.1.8 Change Order

Page 1 of 3

Change Order No.: _____

Agreement Date: _____

Name of Project: **Incorporated County of Los Alamos**

Contractor:

The following changes are hereby made to the Contract Documents:

JUSTIFICATION:

CHANGE TO CONTRACT PRICE:

Original Price \$ _____

Current Contract Price adjusted by previous Change Order \$ _____

The Contract Price due to this Change Order will be (_____) by: \$ _____

The new Contract Price, including this Change Order will be \$ _____

CHANGE TO CONTRACT TIME:

SUBSTANTIAL COMPLETION:

Original Contract Time _____ calendar days.

Current Contract time adjusted by previous Change Order(s) _____ calendar days.

The Contract Time will be (_____) by _____ calendar days.

New Contract Time including this Change Order will be _____ calendar days.

The date for completion of substantial work will be _____ (Date)

FINAL COMPLETION

Page 2 of 3

Original Contract Time _____calendar days.

Current Contract time adjusted by previous Change Order(s) _____calendar days.

The Contract Time will be (_____) by _____calendar days.

New Contract Time including this Change Order will be _____calendar days.

The date for completion of all work will be _____ (Date)

Page 3 of 3

APPROVALS REQUIRED:

To be effective, this order must be approved by the Utilities Manager; or the Los Alamos County Council if the contract modification, change order, or contract price adjustment exceeds the funding budgeted and specifically appropriated for this project, or as may otherwise be required by the General Conditions.

The adjustment in Contract price and/or Contract time stated in this Change Order shall constitute the total price and/or time adjustment due or owed the Contractor for the work or changes ordered by the Change Order. By executing the Change Order, the Contractor acknowledges and agrees that the stipulated price and/or time adjustments represent full compensation for all adjustments in the cost or the time required to perform the Contract as a whole arising directly or indirectly from the Change Order, including costs and delays associated with the interruption of schedules, extended overheads, delay, and cumulative impacts or ripple effect on all other non-affected work under Contract not changed by the Change Order. Signing of the Change Order constitutes full and mutual accord and satisfaction for the adjustment in contract price and/or time, subject to the current scope of the entire work as set forth in the Contract Documents. Acceptance of this Change Order constitutes an agreement between Owner and Contractor that the Change Order represents an equitable adjustment to the Contract, and that the Contractor will waive all rights to file a claim on this Change Order after it is properly executed.

Requested by Project Manager: _____, Project Manager

Approved by (Senior Engineer): _____, Senior Engineer

Approved by (Deputy Utilities Manager): _____
Deputy Utilities Manager

Approved by (Utilities Manager): _____
Philo S. Shelton, III P.E., Utilities Manager

If applicable, approved by the County Council on the _____ Day of _____, 20__

Attest:

(County Council)

Print Name: _____

Title: _____

**INCORPORATED COUNTY OF LOS ALAMOS
CERTIFICATE OF SUBSTANTIAL COMPLETION**



LOS ALAMOS

Date of Issuance: _____

Bid Number: _____

Bid Title: _____

Contractor: _____

Engineer: _____

This Certificate of Substantial/ Final Completion applies to all Work under the Contract Documents or to the following specified parts thereof:

TO:

Contractor

The Work to which this Certificate applies has been inspected by authorized representatives of Owner, Contractor and Engineer and that Work is hereby declared to be substantially complete in accordance with the Contract Documents on

DATE OF SUBSTANTIAL COMPLETION

A tentative list of items to be completed or corrected is attached hereto. This list may not be all-inclusive, and failure to include an item in it does not alter the responsibility of Contractor to complete all the Work in accordance with the Contract Documents.

**Certificate of Substantial / Final Completion
(Page 2 of 2)**

This certificate does not constitute an acceptance of Work not in accordance with the Contract Documents, nor is it a release of Contractor's obligations to complete the Work in accordance with the Contract Documents.

Executed by Owner on _____, 20__

Project Manager

By: _____
(Authorized Signature)

Accepted by the Architect on _____, 20__

Architect

By: _____
(Authorized Signature)

Accepted by the Contractor on _____, 20__

Contractor

By: _____
(Authorized Signature)

3.2 Conditions of the Contract - General Conditions

3.2.1 Definitions

Wherever used in any of the Contract documents, the following terms shall have the meanings indicated which shall be applicable to both the singular and plural thereof unless another meaning is clearly specified:

- A. **The terms “Contract” and “Agreement” are interchangeable when used throughout.**
- B. **Abandoned or Unknown Underground Facilities** – All pipelines, conduits, ducts, cables, wires, manholes, vaults, tanks, tunnels or other such facilities or attachments, and any encasements containing such facilities which were installed underground and have since been abandoned by Previous Owner. Such utilities will not be located and are not subject to ownership.
- C. **Active Underground Facilities** – All active pipelines, conduits, ducts, cables, wires, manholes, vaults, tanks, tunnels or other such facilities or attachments, and any encasements containing such facilities which have been installed underground to furnish any of the following services or materials: electricity, gases, telephone or other communications, sewage, and drainage removal, or effluent, potable or other pressurized or gravity water. Contractor should exercise due diligence and reasonable care when digging in the event of encountering and working near utilities or facilities that could interfere with the work. Safety for each encounter is primary. These facilities may not be able to be located. Contractor shall be responsible for any costs associated with damage, uncovering, repair, usage, etc.... including delay, and shall include such costs in the proposal.
- D. **Addenda** – Written or graphic documents issued prior to the opening of bid documents which modifies or interprets the Solicitation Documents, Drawings and Specifications, by additions, deletions, clarifications or corrections.
- E. **Application for Payment** – The form accepted by the County which is to be used by Contractor in requesting progress or final payments and which is to be accompanied by such supporting documentation as is required by the Contract documents.
- F. **Architect** – (See Engineer below)
- G. **Bid** – The documents provided by the County and required documents of the Bidder submitted on the prescribed forms setting forth the prices for the Work to be performed.
- H. **Bidder** – Any person, firm, or corporation submitting a response to the Bid.
- I. **Bid Documents** – Includes but not limited to Advertisement, Invitation to the Solicitation, Summary of Work, Conditions for Bidders, Bid Forms, Plans, Specifications, and including all addenda issued prior to receipt of Bids.
- J. **Bonds** – Bid, Performance, and Labor and Materials Payment Bonds and other instruments of security, furnished by a contractor and the contractor’s surety in accordance with the Solicitation documents.
- K. **Change Order** – A written Amendment to the Contract authorizing an addition, deletion or revision in the Work within the general scope of the Contract documents, or authorizing an adjustment in the Contract, Contract Price or Contract Time.
- L. **Completion Definitions** –

- Substantial Completion** - The date when the Contractor and County consider the entire Work ready for its intended use as evidenced by the Certificate of Substantial Completion.
1. **Partial Utilization** – Use by County at County’s sole option of any substantially completed part of the Work which constitutes a separately functioning and usable part of the Work that can be used by County for its intended purpose without significant interference with Contractor’s performance of the remainder of the Work and may be accomplished prior to Final Completion of all the Work.
 2. **Final Completion** – The date when the Contractor and County consider the entire Work to be complete, including all outstanding Punch List items. Contractor shall at the completion of work, remove all debris and other rubbish from the project site and shall remove all its tools and surplus materials and shall leave the project site clean. If the Contractor fails to clean up, the County may do so and subtract the cleanup cost from the Contractor’s final payment. Contractor shall legally dispose of all construction debris at the Contractor’s expense.
- M. **Contract Documents** – The written contract between County and Contractor covering the work to be performed, including but not limited to all associated documents contained in the Solicitation:
1. Addenda to the Solicitation, Summary of Work, Conditions for Bidders, Bid Forms, Award Forms, Contract Application and Certification of Payment, Conditions of the Contract, General Requirements, Notices to Contactor, Technical Specifications and Plans, Contractor’s Bid and Documentation submitted by Contractor prior to Notice of Award, Bonds, Written Amendments to any Contract Document, Change Orders, Field Orders, and County’s written interpretations and clarifications issued on or after the Effective Date of the Agreement, all of which are incorporated by reference and made a part of this Contract as fully as if herein repeated and a copy of which the Contractor acknowledges hereby that he has received. Engineer’s written interpretations and clarifications issued on or after the Effective Date of the Contract as identified and incorporated by reference therein.
 2. Shop drawing submittals approved and the reports and drawings referred to in Section 3, paragraph 3.11 are not Contract documents.
- N. **Compensation** – The total monies payable to the Contractor under the terms and conditions of the Contract documents, and includes all County-approved changes thereafter.
- O. **Contract Time** – The time period stated in the Contract documents for the Contractor’s completion and County’s acceptance of the Work.
- P. **Contractor** – The person, firm or corporation with whom the County has executed the Agreement.
- Q. **County** – Incorporated County of Los Alamos
- R. **Defects and /or Defective Work** – Work that is unsatisfactory, faulty or deficient, in that it does not conform to the contract documents, or does not meet the requirements of any inspection, reference standard, test, or approval, or Work that has been damaged prior to final payment.
- S. **Emergency** – A sudden, unexpected, or impending situation that poses and immediate risk to health, life, property or environment, including but not limited to the safety or protection of the Work, or property, real or personal, at the site or on related construction and staging areas and roads, or property adjacent thereto.

- T. **Engineer** – or the Engineer’s designated representative who has designed the technical aspects of this project for the County of Los Alamos, includes Architect, and Architect/Engineer.
- U. **Engineer’s (or Architect’s) Resident Project Representative (RPR)** – Provides construction oversight, administration, inspection, and quality assurance services during construction. Also known as Construction Observer.
- V. **Field Order** – A written order effecting a change in the Work which does not involve an adjustment in the Compensation or an extension of the Contract Time, issued by the County Project Manager or Designee to the Contractor during performance of the Work.
- W. **Hazardous Waste** – The term Hazardous Waste shall have the meaning provided in Section 1004 of the Solid Waste Disposal Act (42 USC Section 6903) as amended from time to time.
- X. **Lump Sum** – The total single price commitment for paying for all of the Work defined in the Solicitation Documents or a specified portion thereof.
- Y. **Notice of Award** – The County’s written notice that the County is issuing award of the Contract to the Contractor.
- Z. **Notice to Proceed** - The County’s written notice to the Contractor authorizing the Contractor to proceed with Work and establishing the date of commencement of the Work.
- AA. **Owner** – The County of Los Alamos
- BB. **Plans** – The part of the Solicitation documents which show the characteristics and scope of the Work to be performed by the Contractor and which have been prepared or approved by the Engineer.
- CC. **Project Manager** – Owner’s designee who provides construction oversight, administration, inspection, and quality assurance services during construction.
- DD. **Samples** – Physical examples of materials, equipment, or workmanship that are representative of some portion of the Work and which establish the standards by which such portion of the Work will be evaluated.
- EE. **Shop Drawings** – All drawings, diagrams, illustrations, brochures, schedules and other data which are prepared by the Contractor, a Subcontractor, manufacturer, supplier, or distributor which illustrate how specific portions of the Work shall be fabricated, performed or installed. Shop drawings shall illustrate some portion of the work and confirm dimensions and conformance to Solicitation documents. Shop drawings are not part of the Contract documents.
- FF. **Specifications** – Written descriptions of a technical nature of materials, equipment, construction systems, standards, and workmanship.
- GG. **Subcontractor** – An individual, firm or corporation having a direct contract with the Contractor (not the County) or with any other Subcontractor for the performance of a part of the Work at the site.
- HH. **Punch List Items** – A list of deficiencies to be corrected by Contractor between Substantial and Final Completion.
- II. **Successful Bidder** – Lowest responsible and responsive Bidder that the County selects for award.
- JJ. **Supplier** – A manufacturer, fabricator, distributor, or vendor etc., having a direct contract with Contractor or any Subcontractor.
- KK. **Unit Price** – Amount to be paid on the basis of individual line item prices.
- LL. **Work** – The entire construction or various separately identifiable parts thereof required to be furnished under the Contract. Work includes and is the result of performing or furnishing and incorporating materials and equipment into the

construction, and performing furnishing services and furnishing documents, all as required by the Contract.

MM. **Written Notice** – Any notice to any party of the Contract relative to any part of the Contract.

3.2.2 Additional Instructions

- A. County may furnish to the Contractor additional instructions and detail drawings, Field Orders or Change Orders as necessary to carry out the Work required by the Contract.
- B. Additional drawings and instructions supplied to the Contractor by the County will become a part of the Contract. The Contractor shall carry out the Work in accordance with the additional detail drawings and instructions.
- C. The Contractor is responsible for conducting its own, independent quantity take-off for the Work. Following issuance of Notice of Award, but prior to issuance of the Notice to Proceed, the Contractor shall advise the County in writing of any substantive discrepancies between the Contractor's take off, and the itemized line item unit prices.
- D. Before undertaking each part of the Work, Contractor shall carefully study and compare the Contract Documents and verify pertinent figures shown thereon and all applicable field measurements.
- E. Contractor shall promptly report in writing to County any conflict, error, ambiguity or discrepancy which Contractor may discover and shall obtain a written interpretation or clarification from County before proceeding with any Work affected thereby.
- F. The Contract Documents comprise the entire agreement between County and Contractor concerning the Work. The Contract Documents are complementary; what is called for by one is as binding as if called for by all.
- G. The Contract Documents will be construed in accordance with the law of the place of the Work.
- H. It is the intent of the Contract Documents to describe a functionally complete Project to be constructed in accordance with the Contract Documents. Any work, materials, or equipment that may reasonably be inferred from the documents or from prevailing custom or trade usage as being required to produce the intended result will be furnished and performed whether or not specifically called for. When words or phrases which have a well-known technical or construction industry or trade meaning are used to describe work, materials, or equipment, such words or phrases shall be interpreted in accordance with that meaning. Clarifications and interpretations of the Technical Specifications and Contract Drawings shall be issued by the County.
- I. Reference to standards, specifications, manuals, or codes of any technical society, organization or association, or to the Laws or Regulations of any governmental authority, whether such reference be specific or by implication, shall mean the latest standard, specification, manual, code or Laws or Regulations in effect at the time Proposals except as may be otherwise specifically stated in the Contract documents.
- J. If during the performance of the Work, Contractor discovers any conflict, error, or ambiguity, or discrepancy within the Contract documents and any provision of any such Law or Regulation applicable to the performance of the Work or of any such

standard, specification, manual, or code or of any instruction of any Supplier, Contactor shall upon discovery provide to the County written notice thereof and Contractor shall not proceed with the Work affected thereby (except in emergencies affecting the safety or protection of the Work or property at the site or adjacent thereto), until the conflict, error, ambiguity or discrepancy has been resolved through a Field Order or a Change Order.

- K. Except as otherwise specifically stated in the Contract documents or as may be provided by Change Order, the provisions of the Contract documents take precedence in resolving any conflict, error, ambiguity or discrepancy between the provisions of the Contract documents and the provisions of any such standard, specification, manual, code or instruction (whether or not specifically incorporated by reference in the Contract Document) or the provisions of any Laws, Regulations, policies or procedures applicable to the performance of the Work (unless such an interpretation of the provisions of the Contract documents would result in violation of such Law or Regulation). No provision of any such standard, specification, manual, code or instruction shall be effective to change the duties and responsibilities of County, Contractor, or Engineer, or any of their subcontractors, consultants, agents, or employees from those set forth in the Bid documents, nor shall it be effective to assign to County, Engineer, or any of Engineer's Consultants, agents or employees any duty or authority to supervise or direct the furnishings of performance of the Work or any duty or authority to undertake responsibility inconsistent with the provisions of the Contract documents.
- L. Whenever in the Contract documents the terms "as ordered," "as directed," "as required," "as allowed," or terms similar to "reasonable," "suitable," "acceptable," "proper," or "satisfactory" are used to describe a requirement, direction, review or judgment of County or Engineer as to the Work, it is intended that such requirement, direction, review or judgment will be solely to evaluate, in general, the completed Work for compliance with the requirements of and information in the Contract Documents and conformance with the design concept of the completed Project as a functioning whole as shown or indicated in the Contract documents (unless there is a specific statement indicating otherwise). The use of any such term or adjective shall not be effective to assign to Engineer any duty or authority to supervise or direct the furnishing or performance (methods and means) of the Work or any duty or authority to undertake responsibility contrary to any provision of the Contract documents.
- M. The Contractor will develop a document control system for the Project which establishes protocol for acceptance and distribution of all construction related documents. Contractor shall also establish processes for certain standardized documents in the Contract documents and in other pertinent documents as required such as Requests for Information, Submittals, Change Orders, Field Orders, Cost Proposals, Design Notices, and Meeting Minutes and others as necessary during the Pre-Construction Conference. The Contractor shall adhere to these processes and require the same of all their subcontractors.

- N. Contractor shall maintain in a safe place known to the County one record copy of all Drawings, Specifications, Addenda, Written Amendments, Change Orders, Field Orders, and written interpretations and clarifications in good order and annotated to show all changes made during construction. These record documents together with all approved samples and all approved Shop Drawings will be available to County for reference. Upon completion of the Work, these record documents, Samples and Shop Drawings will be delivered to the County or the County's designee.
- O. Generally, Plans, Specifications and other Contract Documents are provided electronically. If the Contractor requests paper copies, these copies may be furnished upon request at the cost of reproduction.

3.2.3 Schedules, Reports and Records

- A. Baseline Schedule -
 - 1. Contractor shall provide a Baseline Schedule for County review and acceptance prior to the Pre-Construction meeting showing the complete sequence of construction by activity with costs loaded by activity as appropriate to depict the value of the activities and the respective rolled-up work packages. This schedule and all updates shall be in Microsoft Project (preferred) or other programs as approved by County.
 - 2. The Contractor shall submit as part of the Baseline Schedule, the proposed number of working days per week; holidays to be observed during duration of Contract by day and month; planned shifts per day and number of hours per shift. Contractor shall notify County at least three (3) working days in advance of any work to be done outside of usual working hours or any change in usual working hours for approval by County.
 - 3. The schedule shall be in sufficient detail to include but not be limited to include significant elements of the work, time frame for each element of work with a beginning and ending point, percentage of progress of work placed or to be placed in a monthly period of time, value of the elements of the work and relationship of elements of work one to the other for the total work under the Contract.
 - 4. The schedule shall show for each activity the durations, early and late start and finish dates, and predecessors. Schedule shall clearly identify one and only one critical path through the whole project.
 - 5. This schedule shall also show timing of all submittals including by not limited to shop drawings, manufacturer's literature, certificates of compliance, materials samples, permits and inspections by outside agencies, operating manuals, and guarantees as required per the Contract documents. The schedule should indicate the type of item and the contract requirement reference. The schedule shall show review time by County, Engineer and sub-consultants for all submittals.
 - 6. Schedule shall also show timing for installation and testing for all equipment and systems.

7. The schedule will be a logically linked schedule and utilize the Critical Path Method (CPM) based on the period of time within which this Contract is to be completed as set forth in the Contract documents. The schedule shall identify the Work in sufficient detail to ensure compliance with Contract dates, schedules, and sequences of construction.
 8. The schedule shall be maintained throughout the life of the Contract. The initial schedule will be the baseline and progress will be compared monthly to this baseline unless a baseline change request is approved in writing by the County. Schedule is Contractor's schedule, prepared by the Contractor, which retains sole responsibility for adherence thereto.
 9. County reserves the right to establish hold points in the schedule before covering work requiring specialty inspections, or work requiring County approval. Such hold points may include but are not limited to inspection of primary electrical feed equipment prior to connecting to the County system, and pressure testing the gas system prior to County installation of gas meter station. Actual hold points will be determined during the progress meetings. Contractor shall give County 48 hour notice in advance of each hold point, and shall schedule a 72 hour hold until it is automatically released.
- B. In the event that the Contractor submits a Baseline Schedule that provides a shorter time for completion of the Project than that provided in the Contract, the Contractor shall not be entitled to any incentive for early completion or damages for delay resulting from any act or omission of County or any other person or entity, occurring between the end of the Baseline Schedule and the Contract Time allowed in Article 2 of the Contract and any change to contract time approved through an executed Change Order.
- C. Schedule Updates with Payment Applications –
1. After submittal and County review and acceptance of the Baseline Schedule, Contractor shall submit all monthly schedule updates to County with each partial payment application.
 2. The updates to the schedule shall show the Work which has been performed and the order in which the Contractor proposes to carry on the remaining Work, including dates at which the Contractor will start and complete the various parts of the Work.
 3. Monthly progress will be assessed at the activity level to determine Earned Value. The percent complete assigned to each task will be determined by mutual agreement between the Contractor and County. Progress payments shall approximate the total Earned Value as calculated for the month. Each month with the submission of the updated schedule with progress, Contractor shall provide a narrative report as needed to define problem areas, anticipated delays, and the impact on the schedule. For any activity which is more than 10% behind approved schedule, contractor shall provide a written corrective action to be taken.
 4. Progress payment applications without an updated project schedule may be rejected by County.

- D. Contractor, at its sole expense shall submit schedules, reports, estimates, records, and other data, as required, in a format approved by the County throughout the duration of the project.
- E. Acceptance of Contractor's schedule by County will not relieve Contractor from compliance with all conditions of the Contract. Errors and omissions in the accepted Contractor's Schedule will not be cause for future claims by Contractor for extra costs or increased Contract Time. Contractor shall adhere to the established progress schedule as may be adjusted from time to time as provided below:
 - 1. Contractor may submit for County acceptance proposed adjustments in the progress schedule that will not change the Contract Times or Milestones.
 - 2. Proposed adjustments in the progress schedule that will change the Contract Times or Milestones shall be submitted as a request for a Change Order. In the event Contractor requests and extension of Contract Time, Contractor shall furnish such justification, CPM data and supporting evidence for a determination.
- F. Contractor shall provide a minimum two (2) week look ahead for all scheduled activities in advance of each regularly scheduled project meeting. County may require this look ahead to be provided in written form.
- G. Work within the County limits after 9:00 p.m. and before 7:00 a.m. requires a Noise Ordinance Relief Permit. Contractor shall adhere to any conditions imposed by the County.
- H. Contractor shall maintain updated as-builts during construction. These shall be made available to the Project Manager for inspection upon request.

3.2.4 Shop Drawings and Submittals

- A. The Contractor shall provide shop drawings, manufacturer's literature, certificates of compliance, material samples, materials colors, guarantees and other materials as may be necessary for the completion of the Work as required by the Contract. The Contractor shall review and designate its approval and deliver all submittals to the Project Manager for review with reasonable promptness and in orderly sequence. The County, at its sole discretion may forward submittal(s) for further review by the County's designee. All submittals shall be properly identified.
- B. Contractor shall comply with the Project Manager and/or Engineer's attached comments. If such qualified review or if re-submission is so directed, Contractor shall make any corrections required or indicated by the Project Manager or Engineer at Contractor's expense.
- C. The approval by the Project Manager or Engineer of any shop drawing shall not release the Contractor from responsibility for deviations from the Contract.
- D. The approval of any shop drawing which substantially deviates from the requirement of the contract shall be evidenced by a Change Order.

3.2.5 Start of Various Types of Work and Management Planning

- A. The County will not allow the Contractor to commence work at the project sites, including mobilization of equipment unless the following submittals/shop drawings/firms as applicable are approved by the Engineer:
1. Traffic Control Plan and Traffic Impedance Plan.
 2. Storm water Pollution Prevention Plans (SWPPP) as specified.
 3. Copies of NPDES Notice of Intent (NOI) as specified.
 4. Name of proposed materials, soil, and concrete testing firm as specified.
 5. Name of proposed registered land surveyor or registered Engineer as specified.
 6. Safety Management Plan.
 7. Any material differences between Contractor's quantity take-off and quantities itemized in the Bid.
 8. Contractor shall obtain a Los Alamos County Business License.
- B. The County will not allow the Contractor to begin excavation unless the following submittals/shop drawings are approved by the County:
1. Excavation/Shoring Plan
 2. Water, sewer, and gas system components (pipe, valve, fittings, manholes, etc.)
 3. Underground electric components
 4. Storm drain and sewer system components (pipe, inlets, manholes, etc.)
 5. Pipe bedding material
- C. The County will not allow the Contractor to commence installation of concrete structures until the following submittals/shop drawings are approved by the County:
1. Concrete mix design
 2. Reinforcing steel
- D. The County will not allow the Contractor to commence installation of road work at the Project Site, unless the following submittals/shop drawings are approved by the County:
1. Structural fill material
 2. Gravel base course
 3. Prime coat/tack coat material
 4. Asphalt Pavement Mix Design
 5. Performance Graded Binder
 6. Storm drain pipe
 7. Hydrated lime
 8. Geotextile material.
- E. Contractor shall deliver to County prior to Substantial Completion Inspection:
1. Certificates of inspection and of occupancy as required by authorities having jurisdiction over the work.
 2. Contractor shall notify the County in writing when the Work is Substantially Complete and request a Certificate of Substantial Completion.
 3. County and/or Engineer shall then inspect the Work and either concur with or decline the request.

4. If accepted, a Certificate of Substantial Completion shall be issued, with a “punch list” of items to be corrected and completed by the Final Completion date and shall include division of responsibilities as applicable between County and Contractor including but not limited to security, operation, safety maintenance, insurance, warranties and guarantees. County shall have the right to exclude Contractor from the Work after the date of Substantial Completion, but County shall allow Contractor reasonable access to complete or correct items on the correction list.
 5. If declined, County shall not issue the Certificate of Substantial Completion
- F. Final Completion –
1. The date when the Contractor and County consider the entire Work is complete, as evidenced by the Certificate of Final Completion.
 2. Contractor shall notify the County in writing when the Work is at Final Completion and request a Certificate of Final Completion.
 3. County and/or Engineer shall then inspect the Work and either concur in or reject the request.
 4. If accepted, a Certificate of Final Completion shall be issued.
 5. If declined, County shall not issue the Certificate of Final Completion. Contractor shall take such measures as are necessary to complete such Work or remedy deficiencies.
 6. Unless otherwise identified in the Bidding Documents, all items below in item G. shall be provided prior to Final Completion.
- G. Prior to County execution of the Certificate of Final Completion, Contractor shall furnish maintenance manuals as called for in Contract documents and Contractor shall provide start up assistance for County as required.
1. Data files of accurately surveyed coordinate points locating all as constructed structures and all buried utilities including depths and inverts of manholes. Use the coordinate system described in the Drawings on the Site Plan General Layout. Data files shall be in a format suitable for importing into AutoCAD drawings. Furnish complete written descriptions of each point and include a brief description of the data (Metadata) describing the data collection process and the names and contract information of the parties responsible for producing the data. Approval documents if the work is constructed in any way at variance to that shown on the Contract documents.
 2. As-built plans in the form of redlined plans with all aspects of the project constructed that deviate from the original plans marked in red on a Full Size (24"x36" or larger if architectural) paper set of plans.
 3. Contractor shall provide vendor training for the County as requested by the Project Manager, covering maintenance and operation of the systems. This may be provided prior to Substantial Completion upon agreement between the County and Contractor.

3.2.6 Materials, Services and Facilities

- A. It is understood that, except as otherwise may be specifically stated in the Contract documents, the Contractor shall provide and pay for the costs and associated taxes for all materials, (except for materials furnished by the County), labor, tools, equipment and machinery, water, light, power, heat, fuel, telephone, sanitary

facilities, transportation, supervision, temporary construction of any nature, and all other services and facilities of any nature whatsoever necessary to execute, complete, and deliver the Work within the Contract Time.

- B. Materials and equipment shall be stored to insure the preservation of quality and fitness for the Work. Stored materials and equipment to be incorporated in the Work shall be located to facilitate prompt inspection.
- C. Manufactured articles materials, and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned as directed by the manufacturer.
- D. Materials, supplies, and equipment furnished by the Contractor shall be in accordance with samples submitted by the Contractor and approved by the County.
- E. Materials, supplies or equipment to be incorporated into the Work shall not be purchased by the Contractor or any Subcontractor, subject to a chattel mortgage or under a conditional sale contract or other agreement by which an interest is retained by the seller.
- F. Materials and equipment shall be new and of good quality.
- G. Contractor shall, if required, furnish evidence of the quality of any materials.
- H. Materials not meeting requirements of the Contract documents shall be removed from project by Contractor without expense to County.
- I. Materials shall be delivered to the site in original packaging with labels and trademarks intact, and such labels and trademarks shall remain intact until used.

3.2.7 Substitutes or “Brand Name” or Equal

- A. Whenever an item of material or equipment is specified or described in the Contract documents by using the name of a proprietary item or the name of a particular supplier, the specification or description is intended to establish the type, function and level of quality required. Unless the specification or description contains or is followed by word reading that no “like,” “equivalent” or “equal” item or no substitution is permitted, other items of material or equipment of other suppliers may be recommended by Contractor for County’s approval under the following circumstances:
 - 1. “Or-Equal”: Contractor will recommend to County if an item of material or equipment proposed by Contractor is functionally equal to that named and sufficiently similar so that no change in related Work will be required. It may be considered as an “or-equal” item, in which case review and approval of the proposed item may, in County’s discretion, be accomplished without compliance with some or all of the requirements for acceptance of proposed substitute items.
 - 2. Substitute Items: If an item of material or equipment proposed by Contractor does not qualify as an “or-equal” item, it will be considered a proposed substitute item.
 - a. Contractor shall first make written request to Project Manager for acceptance, signifying that the proposed substitute will perform the functions as specified and achieve the results called for by the particular design, functional or performance characteristics which are required.

- (1) Contractor shall submit sufficient information to demonstrate that the item proposed is essentially equivalent to that named and is an acceptable substitute.
 - (2) Contractor will state the extent, if any, to which the evaluation and acceptance of the proposed substitute will impact Contractor's achievement of Substantial Completion, whether or not acceptance of the substitute for use in the Work will require a change in any of the Contract documents (or in the provisions of any other direct contract with County for work on the project) to adapt the design to the proposed substitute and whether or not incorporation or use of the substitute in connection with the Work is subject to payment of any license fee or royalty. All variations of the proposed substitute from that specified will be identified in the application and available maintenance, repair and replacement service will be indicated.
 - (3) Contractor shall provide an itemized estimate of all costs or credits which will result directly or indirectly from acceptance of such substitute, including costs of redesign and claims of other contractors affected by the resulting change, all of which will be considered by County in evaluating the proposed substitute. County may require Contractor to furnish additional data about the proposed substitute.
3. Substitute Construction Methods or Procedures: If a specific means, method, technique, sequence or procedure of construction is shown or indicated in and expressly required by the Solicitation documents, Contractor may furnish or utilize a substitute means, method, technique, sequence or procedure of construction acceptable to County upon recommendation from Engineer. Contractor shall submit sufficient information to allow Engineer to make recommendation to County that the substitute proposed is equivalent to that expressly called for by the Solicitation documents.
4. Engineer's Evaluation: Engineer will be allowed a reasonable time within which to evaluate each bid or submittal made. County upon recommendation of Engineer will be sole judge of acceptability. No "or-equal" or substitute will be ordered, installed or utilized without Engineer's prior written acceptance which will be evidenced by either a Change Order or an approved Shop Drawing. County may require Contractor to furnish at Contractor's expense a special performance guarantee or other surety with respect to any "or-equal" or substitute. Engineer will record time required by Engineer and Engineer's Consultants in evaluating substitutes proposed or submitted by Contractor and in making changes in the Solicitation documents (or in the provisions of any other direct contract with the County for work Project) occasioned thereby. Whether or not Engineer accepts a substitute item so proposed or submitted by Contractor, County reserves the right to charge Contractor for review time by Engineer and Engineer's consultants for evaluation of each such proposed substitute item and for making changes in the Solicitation documents as needed.

5. Contractor's Expense: All data to be provided by Contractor in support of any proposed "or-equal" or substitute item will be at Contractor's expense.

3.2.8 Inspection and Testing

- A. All materials and equipment used in performance of the Work shall be subject to adequate inspection and testing in accordance with generally accepted standards and as required and defined in the solicitation documents.
- B. If required by the solicitation documents, the Contractor shall provide at the Contractor's expense the testing and inspection services.
- C. The Contractor shall assume full responsibility for arranging and obtaining such inspections, tests, or approvals, paying all costs in connection therewith, and furnishing County/Engineer with the required certificates of inspection, or approval within 72 hours of inspection
- D. The Contractor will give the County/Engineer twenty-four (24) hours' notice of readiness and shall cooperate with inspection and testing personnel to facilitate required inspections or tests. Contractor shall also be responsible for arranging obtaining and paying all costs in connection with any inspections, tests or approvals required for County and Engineer's acceptance of materials or equipment to be incorporated in the Work, or materials, mix designs, or equipment submitted for approval prior to Contractor's purchase thereof for incorporation in the Work.
- E. Alternately, in accordance with the solicitation documents, the County may assume all responsibility and costs associated with testing; this will be noted specifically.
 1. In the event that more than two (2) tests fail, County may at its discretion, charge the Contractor for all subsequent tests.
 2. Such charges may be deducted from the payment application.
- F. County may at their discretion perform additional testing and inspections as a means of quality assurance.
- G. Inspections, tests or approvals by the County/Engineer shall not relieve the Contractor's obligations to perform the Work in accordance with the requirements of the solicitation documents.
- H. Notice of Defects- Prompt notice of any defective Work of which County or Engineer have actual knowledge will be given to Contractor. All defective Work shall be rejected, corrected, accepted, or accepted with payment adjustments as determined by County.
- I. If any Work is covered contrary to the direction of the County, or if Work is covered prior to testing, Contractor shall uncover it for testing and/or observation by the County. Re-excavation, inspection, testing and replacement of any and all materials and items shall be at the Contractor's sole expense.
- J. If the County directs the Contractor to uncover work where inspections are not required, then
 1. The Contractor shall bear all costs for the re-excavation, inspection, testing, replacement and re-covering of the items if the work did not meet specifications, or

2. If items do meet specifications, Contractor may solicit a Change Order to cover the additional work costs.
- K. Sub-grade, base-course, and asphalt testing shall be conducted by an AMRL (Aggregate Materials Reference Laboratory) certified technician. Cement and concrete testing shall be performed by an ACI (American Concrete Institute) certified technician for lab and field testing.

3.2.9 Correction of Work

- A. The Contractor shall remove at the County's sole discretion from the premises and replace at the Contractor's sole expense all Work rejected by the Engineer or County for failure to comply with the Contract documents, whether incorporated in the project or not, and the Contractor shall promptly replace and re-execute the Work in accordance with the Contract documents. Contractor shall pay claims, cost, losses, and damages caused by or resulting from such correction or removal including but not limited to all costs or repair or replacement of work by others.
- B. If the Contractor does not take action to remove such rejected Work within time specified after receipt of written notice, the County may remove or correct such Work and store the materials. If at the time the County removes or corrects such Work and stores materials and any amount of the Contract Price is then due and owing to the Contractor, the County may deduct from the amount owed to the Contractor the costs incurred by the County for such removal, correction and storage.
- C. In connection with such corrective and remedial action, County may exclude Contractor from all or part of the site, take possession of all or part of the Work, and suspend Contractor's services related thereto, take possession of Contractor's tools, appliances, construction equipment and machinery at the site and incorporate in the Work all materials and equipment stores at the site or for which County has paid Contractor but which are stored elsewhere. Contractor shall allow County, County's representatives, agents, employees, County's other Contractors and Engineer and Engineer's Consultants access to the site to enable County to exercise the rights and remedies under this paragraph. All claims, costs, losses and damages incurred or sustained by County in exercising such rights and remedies will be charged against Contractor and a Change Order will be issued incorporating the necessary revisions in the Solicitation documents with respect to the Work; and County shall be entitled to an appropriate decrease in the Contract Price. Such claims, costs, losses and damages will include by not be limited to all costs of repair or replacement of work of others destroyed or damaged by correction, removal or replacement of Contractor's defective Work. Contractor shall not be allowed an extension of the Contract Times because of any delay in the performance of the Work attributable to the exercise by County of County's rights and remedies hereunder.
- D. In an emergency where delay would cause serious risk of loss or damage, County may have the defective Work corrected or the rejected Work removed and replaced, and all claims, costs, losses and damages caused by or resulting from such removal and replacement including but not limited to all costs of repair or replacement of work of others will be paid by Contractor.

- E. If instead of requiring correction or removal and replacement of defective Work, County with Engineer's recommendation prefers to accept it, County may do so. Contractor shall pay all claims, costs, losses and damages attributable to County's evaluation of and determination to accept such defective Work. If such acceptance occurs prior to Engineer's recommendation of final payment, a Change Order will be issued incorporating the necessary revisions in the Contractor documents with respect to the Work and County shall be entitled to an appropriate decrease in the Contract Price. If acceptance occurs after such recommendation, an appropriate amount will be paid by Contractor to the County.

3.2.10 Patents

- A. The Contractor shall pay on behalf of the County all applicable royalties and license fees. To the fullest extent permitted by Laws and Regulations, Contractor shall indemnify and hold harmless County from and against all claims, costs, losses and damages arising out of or resulting from any infringement of patent rights or copyrights incident to the use in the performance of the Work or resulting from the incorporation in the Work of any invention, design, process, product or device whether it is specified or not in the Solicitation documents. However, if the Contractor has reason to believe that the design, process or product specified is an infringement of a patent, trademark or copyright, the Contractor shall be responsible for such loss unless the Contractor notifies the County upon discovery.
- B. Contractor shall indemnify, defend, or at its option, settle any claim or suit against County if such suit or claim is based on a patent, trademark, copyright or trade secret infringement resulting from the Work or use thereof provided that County, upon knowledge of a claim or potential claim of infringement, promptly notifies Contractor and provides Contractor all related information known to County. In the event of a claim of patent, trademark, copyright or trade secret infringement, Contractor agrees to keep County timely informed of material developments with respect to such claim. In the event that a court of competent jurisdiction adjudicates that the Work or any part of it does infringe a third party's patent, trademark, copyright or trade secret, or in the event that County is enjoined from using the Work or any part of it. Contractor shall, at its expense and option, do one of the following: 1) procure for County the right to use the Work or the affected part thereof, or 2) replace the Work or affected part thereof with other suitable work, or 3) modify the Work or affected part hereof to make it non-infringing, or 4) if none of the foregoing remedies are commercially feasible, refund the aggregate payments paid by County for the Work which the County is no longer permitted to use, or the affected part thereof, less reasonable amortization for use.

3.2.11 Surveys, Permits, and Regulations

- A. From the information provided by the County, unless otherwise specified in the Solicitation documents, the Contractor shall develop and make all detailed surveys needed for construction such as slope stakes, batter boards, stakes for pile locations and other working points, lines, elevations and cut sheets.

- B. The Contractor shall carefully preserve benchmarks, property corners, reference points and stakes. When it becomes necessary by reason of construction to remove or obliterate any triangulation station benchmark, property corner, monument, stake, witness mark or other survey reference mark, it shall be the duty of the Contractor to cause, at the Contractor's sole expense, the mark to be re-established by a registered surveyor in accordance with Section 61-23-28, NMSA 1978.
- C. Unless otherwise stated in the Solicitation documents or agreed to in writing by the County all permits and licenses necessary for the prosecution of the Work shall be secured and paid for by the Contractor. The Contractor shall give all notices and comply with all laws, ordinances, rules and regulations pertaining to the Work as required. If the Contractor observes that the Solicitation documents are at variance therewith, Contractor shall promptly notify the Engineer in writing, and any necessary changes shall be adjusted as provided herein. Changes in the Work. Contractor shall pay for all governmental changes and inspection fees necessary for the prosecution of the Work, which are applicable at the time of opening bids. Contractor shall pay all charges of utility connections and payment for use of said utilities for the Work.
- D. A Penetration Permit from the County is required prior to connecting to any gas, water, or sanitary sewer lines. Allow five (5) working days for the County to process the application after submitting. A copy of the Penetration Permit can be obtained from the Los Alamos County Department of Public Utilities (DPU), (505) 662-8130. DPU staff will perform all switching and valve operations.
- E. The Contractor will also need to prepare the plan and file the necessary documentation, obtain approvals, construct and maintain the Storm Water Pollution Prevention Plan (SWPPP) for all job sites, staging areas or other areas required prior to initiation of any site work.
- F. The Contractor will also need to submit and get approval of a Traffic Impedance Permit from the County of Los Alamos, prior to beginning construction as required. Contractor shall apply to the County of Los Alamos for a Traffic Impedance Permit at least ten (10) working days in advance of setting up traffic control signs or barricades for work efforts which will affect the flow of traffic. Contractor cannot proceed with construction until traffic control plans are approved.
- G. The Contractor shall obtain all New Mexico Environment Department (NMED) Air Quality Permits as required, as well as any other required permits including, but not limited to, asbestos abatement, lead abatement and other hazardous material permits in conjunction with the Work.
- H. County projects do not require an Excavation Permit
- I. Neither County nor Engineer shall be responsible for Contractor's compliance with any Laws or Regulations except where otherwise expressly required.
- J. All County permit fees shall be waived with the exception of Solid Waste fees.
- K. Work within the county limits after 9:00 pm and before 7:00 am require a Noise Ordinance Relief Permit. Contractor shall adhere to any restrictions imposed by the County.

3.2.12 Subsurface and Physical Conditions

- A. Any reports on subsurface and physical conditions are included in Section 3.5 Attachments. The County may not have conducted or contracted for Subsurface and Physical Condition Reports.
- B. Contractor may rely upon the general accuracy of the specific “technical data” contained in such reports and drawings and is provided as the best information at that time for the Contractor’s use. Except for such reliance on such “technical data,” Contractor may not rely upon or make any claim against County, Engineer or any of Engineer’s Consultants with respect to:
 - 1. The completeness of such reports and drawings for Contractor’s purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences and procedures of construction to be employed by Contractor and safety precautions and programs incident thereto, or
 - 2. Other data, interpretations, opinions, and information contained in such reports or shown or indicated in such drawings, or
 - 3. Any Contractor interpretation of or conclusion drawn from any “technical data” or any such data, interpretations, opinions or information.
- C. Notice of Differing Subsurface or Physical Conditions – if Contractor believes that any subsurface or physical condition at or contiguous to the site that is uncovered or revealed either:
 - 1. Is of such a nature as to establish that any “technical data” on which Contractor is entitled to rely as provided above is materially inaccurate, or
 - 2. Is of an unusual nature, and differs materially from conditions ordinarily encountered and generally recognized as inherent of the character of Work provided in the Solicitation documents; then Contractor shall, promptly after becoming aware thereof and before further disturbing conditions affected thereby or performing and Work in connection therewith (except in an emergency), notify County and Engineer in writing immediately about such condition. Contractor shall not further disturb such conditions or perform any Work in connection therewith (except as aforesaid) until receipt of written order to do so.
 - 3. County will promptly review the pertinent conditions, determine the necessity of obtaining additional exploration or tests with respect thereto and advise Contractor in writing of its findings and conclusions.
- D. Possible Contract Documents Change: If Engineer concludes that a change in the Contract Documents is required as a result of a condition that meets one or more of the categories in paragraph 3.3.16, a Change Order may be issued to reflect and document the consequence of such change.
- E. Possible Price and Times Adjustments: An equitable adjustment in the Contract Price or in the Contract Times, or both may be allowed to the extent that the existence of such uncovered or revealed condition causes and increase or decrease in Contractor’s cost of, or time required for performance of the Work subject to the following:

1. Such condition must meet any one or more of the categories described in paragraphs above;
 2. A change in the Contract Documents pursuant to Section 3, Changes in the Work will not be an automatic authorization of nor a condition precedent to entitlement to any such adjustment;
 3. With respect to Work that is paid for on a Unit price basis, any adjustment in contract price will be subject to provisions relating to unit prices;
 4. Contractor shall not be entitled to any adjustment in the Contract Price or Times if;
 - a. Contractor knew of existence of such conditions at the time Contractor made a final commitment to Owner in respect of Contract Price and Contract Times by the submission of a bid or becoming bound under a negotiated contract; or
 - b. The existence of such condition could reasonably have been discovered or revealed as a result of any examination, investigation, exploration, test, or study of the site and contiguous areas required by the Solicitation Documents to be conducted by or for Contractor prior to Contractor's making such final commitment; or
 - c. Contractor failed to give the written notice within the time and as required by Section 3, Changes in the Work.
 - d. County, Engineer and Engineer's Consultants shall not be liable to Contractor for any claims, costs, losses or damages sustained by Contractor on or in connection with any other project or anticipated project.
- F. Physical Conditions – Underground Facilities:
1. Shown or Indicated: The information and data shown or indicated in the Solicitation documents or subsequently located by the Active Underground Facilities locating service prior to excavation with respect to existing Active Underground Facilities at or contiguous to the site is based on the information and data furnished by the County of such Active Underground Facilities or by others. County shall not be responsible for the accuracy or completeness of such information or data provided in the Solicitation Documents. The Contractor shall be solely responsible for requesting the marking of the location of Active Underground Facilities by the locating service in accordance with the New Mexico Excavation Law prior to excavation. The cost of all of the following will be included in the Contract Price and Contractor shall have full responsibility for: reviewing and checking all such information and data, locating all Underground Facilities shown, or indicated in the Solicitation documents, or subsequently located by the Active Underground Facilities owner, coordination of the Work with the County of such Underground Facilities during construction, and safety and protection of all such Underground Facilities and repairing any damage resulting from the Work.
 2. Not Shown or Indicated: If any Active Underground Facilities or Abandoned Underground Facilities are uncovered or revealed at or contiguous to the site which was not shown or indicated in the Solicitation documents or was not

subsequently located by the Active Underground Facilities owner in accordance with New Mexico exaction law Contractor shall, promptly after becoming aware of and before further disturbing conditions affected or performing any work in connection therewith (except in an emergency), give written notice to the County, if known, of the Underground Facilities Owner.

3. The Contractor will promptly review the Active or Abandoned Underground Facilities and determine, if possible, the owner of the Underground Facilities. The Contractor shall request that the owner of the Underground Facilities also investigate if the Underground Facilities are Active or Abandoned.
 - a. If the Underground Facilities are Active Underground Facilities the County shall determine the extent, if any, to which a change is required in the Contract documents to reflect and document the consequences of the existence of the Active Underground Facilities. During such time, Contractor shall be responsible for safety and protection of such Active Underground Facilities. Contractor may be allowed and increase in Contract Price or an extension of the Contract Times, or both, to the extent that they are attributable to the existence of any Active Underground Facilities that were not shown, indicated, or not subsequently located by the owner of the Active Underground Facilities prior to excavation, and that the Contractor did not know of and could not reasonably have been expected to be aware of or to have anticipated.
 - b. If the Underground Facilities are Abandoned Underground Facilities, and they interfere with the excavation or Work by the Contractor, the Contractor is not eligible for an increase in cost. The Abandoned Underground Facilities can be removed or allowed to remain with steps taken to work around the Abandoned Underground Facilities such as cutting, removing and capping the ends.
 - c. If any Abandoned Underground Facilities are transite asbestos pipe or conduit removal, if required or selected by the Contractor, shall be completed and no additional payment will be granted to the Contractor for the proper removal and disposal per the appropriate local, State, and federal regulations.

3.2.13 Protection of Work, Property and Persons

- A. The Contractor will be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work. The items below shall be included in the Contractor's Safety Management Plan. Contractor will take all necessary precautions for the safety of, and will provide the necessary protection to prevent damage, injury or loss to all employees, County staff or agents, and public on the Work, including but not limited to:
 1. Required personal safety equipment for personnel and visitors within the work zone;
 2. Proper operation of equipment and power tools;
 3. Proper maintenance of equipment and power tools;

4. Protection of personnel and public within excavation areas;
5. Protection of personnel occupying confined spaces;
6. Welding;
7. Fall protection;
8. Procedures in the event that suspected hazardous materials are encountered and procedures to be used by Contractor and Subcontractors for handling and coordinating any exchange of material safety data sheets or other hazard communication information required to be made available to or exchanged between or among employers at the site in accordance with applicable Laws and Regulations;
9. Precautions for lifting and maneuvering heavy objects;
10. Emergency procedures in the event of wildfire or other fire;
11. Emergency procedures in the event of injury;
12. Emergency procedures in the event of a line break (water, sewer, gas, power, etc.)
13. Flooding;
14. Excavating, trenching, shoring, sheeting, and bracing protection;
15. Pre-job safety planning
16. Designation by Contractor of a qualified and experienced safety representative whose duties and responsibilities shall be the prevention of accidents and the maintaining and supervising of safety precautions and programs;
17. Implementation of safety plan for subcontractors;
18. Safety meetings;
19. Procedures for encounters with wildlife, including snakes.

3.2.14 Changes in the Work

- A. The County may at any time, as the need arises, order changes within the scope of the Work without invalidating the Contract. If such changes increase or decrease the amount due under the Contract documents, or in the time required for performance of the Work, an equitable adjustment shall be authorized by Change Order mutually agreed to by the County and Contractor.
- B. The County may at any time, by issuing a Field Order, make changes in the details of the Work. The Contractor shall proceed with the performance of any changes in the Work so ordered by the County, unless the Contractor believes that such Field Order entitles the Contractor to a change in the Contract Price or Time, or both, in which event the Contractor shall give the County written notice within seven (7) calendar days after the receipt of the Field Order. Thereafter the Contractor shall document the basis for the change in Contract Price or Time within thirty (30) calendar days. The Contractor shall not execute such changes until receipt of an executed Change Order or further instruction from the County followed by the executed Change Order. .
- C. Contractor shall not be entitled to an increase in the Contract Price or an extension of the Contract Time with respect to any Work performed that is not required by the

- original solicitation documents or as amended or modified except in the case of an emergency.
- D. The value of any Work covered by a Change Order or any claim for an adjustment in the Contract Price will be determined as follows:
1. Where the Work involved is covered by unit prices contained in the Solicitation documents, by application of such unit prices to the quantities of the items involved.
 2. Where the Work involved is not covered by unit prices contained in the Solicitation documents, by a mutually agreed lump sum.
- E. Force Account -In the event that an agreed upon price or time cannot be reached, Contractor, when directed, shall proceed on a Force Account (Time and Materials) basis and document all costs and time incurred by the work. Force Account shall include a not-to-exceed amount. Costs shall include all direct and indirect labor, equipment and materials and shall be based on:
1. Actual costs for labor, direct overhead, materials, supplies, equipment, and other services required to complete the work;
 2. In addition there shall be an amount agreed upon, but not to exceed fifteen percent (15%) of the actual cost of such work to cover the cost of general overhead and profit;
 3. Contractor shall establish and maintain records in accordance with generally accepted accounting practices and submit in a form acceptable to the County an itemized cost breakdown together with supporting data, agreed to at the end of each day by the Project Manager and Contractor.
- F. Cost of Work: The term Cost of Work means the sum of all costs necessarily incurred and paid by Contractor in the proper performance of the Work. Except as otherwise may be agreed to in writing by County, such costs shall include only the following items and shall not include any of the costs itemized in G below.
1. Payroll costs for employees in the direct employ of Contractor in the performance of the Work under schedules of job classifications agreed upon by County and Contractor. Such employees shall include without limitation superintendents, foreman, and other personnel employed full time at the site. Payroll costs for employees not employed full time on the Work shall be apportioned on the basis of their time spent on the Work. Payroll costs shall include, but not limited to, salaries and wages plus the cost of fringe benefits which shall include social security contributions, unemployment, excise and payroll taxes, workers' compensation, health and retirement benefits, bonuses, sick leave, vacation and holiday pay applicable thereto. The expenses of performing Work after regular working hours, on Saturday, Sunday, or legal holidays, shall be included in the above to the extent authorized by County.
 2. Cost of materials and equipment furnished and incorporated in the Work, including costs of transportation and storage, and Supplier's field services required in connection. All trade discounts, rebates, and refunds and returns from sale of surplus materials and equipment shall accrue to County and Contractor shall make provisions so that they can be obtained.

3. Payments made by the Contractors to the Subcontractors for Work performed or furnished by Subcontractors. If required by County, Contractor shall obtain competitive bids from subcontractors acceptable to County and Contractor shall deliver such bids to County who will then determine which bids, if any, will be accepted. All subcontracts shall be subject to other provisions of the Solicitation documents insofar as applicable
4. Costs of special consultants (including but not limited to engineers, architects, testing laboratories, surveyors, attorneys, and accountants) employed for services specifically related to the Work.
5. Supplemental costs including the following:
 - a. The proportion of necessary transportation, travel and subsistence expenses of Contractor's employees incurred in discharge of duties connected with the Work.
 - b. Cost, including transportation and maintenance, of all materials, supplies, equipment, machinery, appliances, office and temporary facilities at the site and hand tools not owned by the workers, which are consumed in the performance of the Work, and cost less market value of such items used but not consumed which remain property of Contractor.
 - c. Rentals of all construction equipment and machinery and the parts thereof whether rented from Contractor or others in accordance with rental agreements approved by County with the advice of Engineer, and the costs of transportation, loading, unloading, installation, dismantling and removal; all in accordance with the terms of said rental agreements. The rental of any such equipment, machinery or parts shall cease when the use thereof is no longer necessary for the Work.
 - d. Sales, consumer, or similar taxes related to the Work, and for which Contractor is liable, imposed by laws and regulations.
 - e. Deposits lost for causes other than negligence of Contractor, any subcontractor or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, and royalty payments and fees for permits and licenses.
 - f. Losses and damages (and related expenses) caused by damage to the Work, not compensated by insurance or otherwise, sustained by Contractor in connection with the performance and furnishing of the Work (except losses and damages within the deductible amounts of property insurance established by the County), provided loss has resulted from causes other than the negligence of Contractor, any subcontractor or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable. Such losses shall include settlements made with the written consent and approval of County. No such losses, damages and expenses shall be included in the Cost of the Work for the purpose of determining Contractor's fee. If, however any such loss or damage requires reconstruction and Contractor is placed in charge thereof, Contractor shall be paid for service a proportional fee as stated above.

- g. The cost of utilities, fuel and sanitary facilities at the site.
 - h. Cost of premiums for additional bonds and insurance required because of changes in the Work.
- G. The term Cost of Work shall not include any of the following:
 - 1. Payroll costs and other compensation of Contractor's officers, executives, principals, general managers, engineers, architects, estimators, attorneys, auditors, accountants, purchasing and contracting agents, expeditors, timekeepers, clerks, and other personnel employed by Contractor whether at the site or in Contractor's principal or a branch office for general administration of the Work which are to be considered administrative cost covered by the Contractor's fee.
 - 2. Expenses of Contractor's offices other than Contractor's office at the site.
 - 3. Any part of Contractor's capital expenses, including interest and charges for delinquent payments.
 - 4. Original cost of premiums for all Bonds and for all insurance required by the Bid documents to purchase and maintain the same
 - 5. Costs due to the negligence of Contractor, any subcontractor or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, including but not limited to, the correction of defective Work, disposal of materials or equipment wrongly supplied and making good any damage to property.
 - 6. Other overhead or general expense costs of any kind and the costs of any item not specifically and expressly included herein.
- H. The Contractor's fee allowed to Contractor for general overhead and profit shall be determined by an amount not to exceed fifteen percent (15%) of the Cost of Work described above.
- I. For work performed by Sub-contractors the Contractor's fee shall not exceed 5%.
- J. No fee will be allowed for cost of special consultants and supplemental costs as described above.

3.2.15 Suspension, Delay or Termination of Work

- A. At any time and without cause, County may suspend the Work or any portion thereof for a period of not more than 90 days per event by notice in writing to Contractor which will fix the date on which Work may be resumed. Contractor shall resume the Work on the date so fixed. Contractor shall be allowed an adjustment in the Contract Price or an extension of the Contract time or both, directly attributable to any such suspension of work, if Contractor receives an approved change order as provided herein.
- B. The County, at its sole discretion may terminate the Contract if the Contractor:
 - 1. Is determined to be and adjudged to be bankrupt or insolvent;
 - 2. The Contractor makes a general assignment for the benefit of the Contractor's creditors;
 - 3. A trustee or receiver is appointed for the Contractor for any of the Contractor's property;

4. The Contractor files a petition to take advantage of any debtor's act, to reorganize under the bankruptcy or applicable laws.
5. Contractor fails to perform the Work in accordance with the Contract Documents including but not limited to:
 - a. The Contractor repeatedly fails to supply sufficient skilled workmen or suitable materials or equipment,
 - b. The Contractor repeatedly fails to make prompt payments to Subcontractors or for labor, materials or equipment.
 - c. The Contractor disregards laws, ordinances, rules, regulation or orders of any public body having jurisdiction over the Work,
 - d. The Contractor disregards the authority of the County,
 - e. The Contractor otherwise violates any provision of the Contract Documents.
- C. The County may, without prejudice to any other right of surety, within a minimum of ten (10) calendar days from delivery of a written notice, terminate the services of the Contractor and take possession of the Project and of all materials, equipment, tools, construction equipment and machinery owned by the Contractor, and finish the Work by whatever method the County may deem expedient or at County's sole discretion may elect to suspend the work or any portion thereof until the cause for such order has been eliminated. In such case the Contractor shall not be entitled to receive any further payment until the Work is finished.
- D. Contractor shall be paid for Work completed in accordance with the Contract Documents.
- E. If an agreement cannot be reached and the County hires a different Contractor to complete the remaining work or the work is completed by a different means:
 1. The resulting costs incurred by the County will be determined by the County
 2. If such costs exceed such unpaid balance, the County will request that Contractor pay the difference to the County.
 3. If the Contractor refused to pay the difference to the County, the County may terminate the contract and request payment directly from the Contractor's bonding company.
 4. Any unpaid balance of the current Contract Price that exceeds the direct and indirect cost of completing the Work, including compensation for additional professional services, shall not be paid to the Contractor.
- F. Where the Contractor's services have been terminated by the County, said termination shall not affect any right or claim of the County against the Contractor existing at that time or which may thereafter accrue. Any payment by the County due the Contractor will not release the Contractor from compliance with the Contract. Contractor shall not be paid on account of loss of anticipated profits or revenue or other economic loss arising out of or resulting from such termination.
- G. After ten (10) calendar days from delivery of a written Notice to the Contractor from the County, the County may, without cause and without prejudice to any other right or remedy, elect to abandon the Project and terminate the Contract. In such case,

the Contractor shall be paid for all Work executed in conformance with the Contract plus reasonable profit.

3.2.16 Subcontracting

- A. The Contractor may utilize the services of specialty subcontractors on those parts of the Work which, under normal contracting practices, are performed by specialty subcontractors. The County must approve the use of any subcontractor.
- B. The Contractor shall not award Work to subcontractor(s), in excess of fifty percent (50%) of the Contract Price, without prior written approval of the County.
- C. The Contractor shall be fully responsible to the County for the acts and omissions of the Contractor's subcontractors, and of persons either directly or indirectly employed by them, as the Contractor is responsible for the acts and omissions of persons directly employed by the Contractor.
- D. The Contractor shall cause appropriate provisions to be inserted in all subcontracts relative to the Work to bind subcontractors to the Contractor by the terms of the solicitation documents insofar as applicable to the Work of subcontractors and to give the Contractor the same power to terminating any subcontract that the County may exercise over the Contractor under any provision of the Contract.
- E. Nothing contained in this Contract shall create any contractual relation between any subcontractor and the County.

3.2.17 Duties of the Contractor

- A. The Contract contains the provisions required for the construction of the Project. Information obtained from an officer, agent, or employee of the County or another person shall not affect the risks or obligations assumed by the Contractor or relieve Contractor from fulfilling any of the conditions of the Contract. The Contract requires performance of services entirely at the Contractor's risk and Contractor has agreed to indemnify the County from all claims, demands, and actions, arising from the Contractor's actions, errors, or omissions.
- B. The Contractor will supervise and direct all work to be performed pursuant to this Contract. Contractor will be solely responsible for the means, methods, techniques, sequences, and procedures of construction. The Contractor will employ and maintain at the project site a qualified Superintendent who shall have been designated in writing by the Contractor as the Contractor's representative at the site and who shall not be replaced without written notice to County.
- C. The Superintendent shall be considered an agent of the Contractor and shall have full authority to act on behalf of the Contractor and all communications given to the Superintendent shall be as binding as if given to the Contractor. The Superintendent shall be present on the site at all times as required to perform adequate supervision and coordination of the services provided pursuant to this Contract. Superintendent shall not be replaced without written approval of the County.
- D. If at any time Contractor or any subcontractor is suspended or debarred from conducting business with any city, county, state or federal government, Contractor has continuing obligation to promptly notify County. County has the option to

terminate Contract or require a different subcontractor at no additional cost to the County.

- E. Superintendent shall track on a daily basis all labor (including classifications), equipment and materials used on site. Superintendent shall communicate this information to the Project Manager or representative. Superintendent and Project Manager shall agree on this usage.
- F. Contractor shall provide competent, suitably qualified personnel to survey, lay out and construct the Work as required by the Contract. Contractor shall at all times enforce strict discipline and good order among all workers at the sites and shall not employ on the Work any unfit person or anyone not skilled in the work assigned to them.
- G. Contractor shall be responsible to see that the completed Work complies accurately with the Contract.
- H. Contractor shall abide by the Los Alamos County Harassment Policy and Procedures #1120.

3.2.18 Job Site Administration

- A. The Contractor is responsible for orderly use and cleanup of all job sites including staging areas and all areas affected by the project to the satisfaction of the County. Outdoor storage space may be obtained by the Contractor at its sole expense.
- B. The County may authorize by the Staging Area License, Contractor's use of land owned by the County. Contractor shall comply with the terms of written agreements.
- C. Construction materials and equipment such as tools, scaffolds, forms and excess material not in use shall be stored or stacked in neat order at the contractor's storage site. Contractor shall at all times as part of its services, keep the sites free from accumulation of waste materials or rubbish caused by Contractors operations.
- D. Contractor shall provide trash receptacles sufficient in number to accommodate all refuse generated within the property and provide for their regular and routine maintenance and servicing. At the completion of the services to be performed in the Contract, Contractor shall remove Contractor's waste materials and rubbish from and about the project, as well as all Contractor's tools, construction equipment, machinery and surplus materials and shall clean all surfaces.
- E. Contractor may provide lighting as necessary for security and safety of materials and equipment. Such lighting shall be down directed and approved by the Project Manager.
- F. Contractor shall provide portable toilets at all job sites sufficient in number to accommodate all waste generated within the site and provide for their regular and routine maintenance and servicing.
- G. Contractor shall restore to original condition all affected property not designated for alteration by the Contract.
- H. Services performed pursuant to this Contract are not to unduly interfere with the County's normal operation and maintenance.

- I. Contractor shall be responsible for all areas of the project used by the Contractor, subcontractors, suppliers or other involved in performance of the services to be performed in the Contract.
- J. Contractor shall have the right to exclude all who have no purpose or function related to the performance or inspection of the services, except personnel employed by the County or other governmental agencies. Contractor may require all persons on the site of the work to observe all regulations that the Contractor requires of its employees. Contractor will exert full control over the site and personnel with respect to use, safety and preservation of property and the existing facilities, except for controls as reserved to County or others.
- K. Contractor shall confine construction equipment, the storage of materials and equipment and the operations of workers to the site and land and areas identified in and permitted by the Bid documents and other land and areas permitted by Laws and Regulations. Contractor shall assume full responsibility for any damage to any such land or area or to the owner or occupant thereof or of any adjacent land or areas, resulting from the performance of the Work. Should any claim be made by any such owner or occupant because of the performance of the Work, Contractor shall promptly resolve such claim by negotiation or other proceeding at law.
- L. Contractor shall, to the fullest extent permitted by Laws and Regulations, indemnify and hold harmless County against all claims, costs, losses and damages arising out of or resulting from any claim or action, legal or equitable, brought by any such owner or occupant against County, Engineer or any other party indemnified hereunder to the extent caused by or based upon Contractor's performance of the Work.
- M. Contractor shall be responsible for all materials brought to the job sites by the Contractor, its subcontractors or agents.
- N. Hazardous waste shall be properly stored and disposed in accordance with applicable laws and regulations. The Contractor shall promptly remove all spilled or splattered materials from surfaces to prevent marring, staining, or damage. Adequate clean-up will be evaluated prior to all applications for progress payment.
- O. County shall have the right to enter the premises for the purpose of doing work not covered by the Contract. This provision shall not be construed as relieving the Contractor of the sole responsibility for the care and protection of the Work or the restoration of any damaged Work except such as may be caused by agents or employees of the County.
- P. County may perform other work related or unrelated to the Project on the premises using County's own employees, other utility owners, or let other contracts for the performance of work. If there is such work to be performed that was not noted in the Contract, written notice shall be given to the Contractor prior to the start of such work. As directed by the County, Contractor shall provide proper and safe access to the County, contractors and utility owners to the premises and a reasonable opportunity for the introduction and storage of materials and equipment and the execution of such work.

- Q. Contractor shall not endanger any work of others by cutting, excavating or otherwise altering their work and will only cut or alter their work with the written consent of County and the others whose work will be affected.
- R. Gas and Oil Storage, Service Areas, Concrete Batch Plant, Caretaker Dwelling Units- County shall approve the location of equipment areas, gas and oil storage areas, service areas, concrete batch plant and caretaker dwelling units in writing. Contractor shall clear all areas of brush, litter, grass and all other flammable debris for a radius of 50 feet. Caretaker dwelling units subject to approval by County.
- S. Prevention of Oil Spills – If Contractor maintains storage facilities or uses flammable or combustible liquids in the project area, Contractor will provide to the Fire Marshall an operational plan that addresses the use and appropriate measures which will address soil containment and clean-up. Pollutants such as fuels, lubricants and other harmful materials shall not be discharged on the ground.
- T. Contractor, at its sole expense, shall immediately take action to contain and clean up all potentially hazardous spills in the performance of this Contract which are caused by Contractor's employees directly or indirectly as a result of subcontractor operations and shall immediately report to County and all applicable agencies,. Contractor will be held liable for all damages and costs of additional labor, equipment, supplies, and transportation deemed necessary by the County for the containments and cleanup of potentially hazardous spills caused by Contractor's employees or resulting from subcontractor operations.
- U. Control of Sources of Ignition – When Contractor uses any process that requires an ignition source, Contractor must provide a plan outlining the process and prior approval must be granted by the Fire Marshall before any ignition source is used within the project area. Areas where welding cutting, burning, or grinding is occurring are to be shielded to prevent flying sparks and debris. Fires shall not be built on the premises.
- V. Communications – The Contractor's communication system shall provide prompt and reliable communications between Contractor's crews. Owner shall be able to communicate with Contractor 24/7; Contractor shall be responsive to phone calls and return calls within fifteen (15) minutes.
- W. Contractor shall conduct all activities associated with this project in such a manner that there will not be any adverse impact to archeological sites, trails, identified natural features, fences, gates and private property.
- X. Contractor shall be responsible for all damage to property and to persons, including third parties that occur as a result of its or its agents or employees or subcontractor or subcontractor's employees fault or negligence.
- Y. Contractor shall cooperate with the owner of all utilities in removal and or rearrangement operations in order that these operations may progress in a reasonable manner and services shall not be unnecessarily interrupted.
- Z. In the event of interruption to utility services because of accidental breakage or as a result of lines being exposed or unsupported, Contractor shall promptly notify Project Manager and owner of the utility and shall cooperate with owner in the restoration of

- services. If utility services are interrupted, cooperation shall be required until service is restored.
- AA. Contractor shall protect all streets, private roads and sidewalks, and shall make all necessary repairs for damage incurred during course of the work at Contractor's own expense.
 - BB. Contractor shall provide proper protection of all furnishings and fixtures likely to be damaged. When exterior openings are made, they shall be covered with weather tight protection at the end of the day's work.
 - CC. Contractor shall take suitable precautions to protect existing trees, shrubs, and other natural vegetation and fences during construction. The Contractor shall restore the area to permit re-vegetation of the area. This includes restoring the area to pre-existing contours, reducing soil compaction by scarification, and mitigating for the effects of runoff. Any fences that need to be removed must be placed or dealt with as specified in Contract Documents. Contractor shall reseed disturbed areas in accordance with NMDOT Specifications or as specified in the Contract Documents.
 - DD. The County will allow Contractor metered usage of water required for construction, to the extent of existing facilities. The Contractor shall obtain a water meter from the Los Alamos County Department of Public Utilities (DPU). Payment to the Utilities Department for the quantity of water used at the prevailing rate will be due before final acceptance of the project. A deposit for the water meter is required by DPU.
 - EE. Contractor shall remove all snow and ice as may be required for the proper protection and performance of the Work and access to job site. Snow and ice shall also be removed by the Contractor from active work zones open to the public.
 - FF. Contractor shall provide all shoring, bracing, and sheathing as required for safety and for proper execution of the work and have some removed when work is completed.
 - GG. Contractor shall provide installation and maintenance of necessary precautions to protect all personnel on the site, including members of the general public from injury or harm, including but not limited to posting of appropriate warning signs in hazardous areas.
 - HH. Contractor shall at all times provide protection against weather (rain, wind, storms, frost, floods or heat) so as to maintain all Work, materials, apparatus, private property and fixtures free from injury or damage. At the end of the day's work, all new Work likely to be damaged shall be protected.
 - II. During cold weather, Contractor shall protect all work from damage. If low temperatures make it impossible to continue operations safely in spite of cold weather precautions, Contractor shall cease work and so notify County.
 - JJ. Contractor may, as part of its work, provide and erect one sign with a minimum size of 2' x 2' with a maximum size of 4' x 8', with the Contractor's name, license number, address and telephone number and locate sign as approved by the County. No other sign or advertisement shall be displayed by the Contractor unless requested or approved by the County.

3.2.19 Engineer's Authority

The Engineer or the Engineer's designated representative may:

- A. Recommend, disapprove, or reject Work which Engineer believes to be defective or will not produce a completed Project that conforms to the Technical Specifications and Contract Drawings or that will prejudice the integrity of the design concept of the completed Project as a functioning whole as indicated by the Technical Specifications and Contract Drawings or that will prejudice the integrity of the design concept of the completed Project as a functioning whole as indicated by the Technical Specifications and Contract Drawings require special inspection or testing of the Work, whether or not the Work is fabricated, installed or completed.
- B. The Engineer or representative may be on site during construction and determine if the Work is proceeding in accordance with Technical Specifications and Contract Drawings. Duties and responsibilities of Engineer may be modified by County as needed.
- C. Inspections may be made at the factory or fabrication plant of the source of material supply.
- D. The Engineer will not be responsible for the construction means, controls, techniques, sequences, procedures or construction safety.
- E. As requested by County or Contractor, Engineer will issue to both County and Contractor with reasonable promptness written clarifications or interpretations of the requirements of the Technical Specification and Contract Drawings (in the form of Drawings or otherwise), which shall be consistent with intent of and reasonably inferable from Technical Specifications and Contract Drawings.
- F. Engineer may authorize minor variations in the Work from the requirements of the Technical Specifications and Contract Drawings which do not involve an adjustment in the Contract Price or the Contract Time and are compatible with the design concept of the completed Project as a functioning whole as indicated by a Field Order and will be binding on the County and also on Contractor who shall perform the Work involved promptly.
- G. Engineer will review and approve Shop Drawings, Samples and submittals in accordance with the schedule of submittals accepted by Engineer. Engineer's review and approval will only be to determine if the items covered by the submittals will, after installation or incorporation in the Work, conform to the information given in the Technical Specifications and Contract Drawings and be compatible with the design concept of the completed Project as a functioning whole as indicated by the Technical Specifications and Contract Drawings. Engineer's review and approval will not extend to means, methods, techniques, sequences, or procedures of construction, unless explicitly specified or related to applicable safety precautions or programs. The review and approval of a separate item as such will not indicate approval of the assembly in which the item functions. Contractor shall make corrections required by the Engineer and shall return the required number of corrected copies of the Shop Drawings and submit as required new Samples for review and approval. Contractor shall direct specific attention in writing to revisions other than the corrections called for by Engineer on previous submittals.

- H. Engineer may assure the quality of work through independent testing. Engineer shall provide test results to the Contractor and copy the Project Manager.

3.2.20 Duties, Responsibilities and Limitations

Duties, responsibilities and limitations of authority of the Resident Project Representative (RPR).

- A. General – RPR is the Engineer’s representative at the site, and will act as directed by and under the supervision of Engineer and will confer with Engineer regarding RPR’s actions. RPR’s dealings in matters pertaining to the on-site work shall in general be with Engineer and Contractor keeping County advised as necessary. RPR’s dealings with subcontractors shall only be through or with the full knowledge and approval of Contractor. RPR shall generally communicate with County with the knowledge of and under the direction of Engineer.
- B. Schedules – Review the progress schedule, schedule of submittals and schedule of values prepared by Contractor and consult with Engineer concerning acceptability.
- C. Conferences and Meetings – Attend meetings with Contractor, such as pre-construction conferences, progress meetings, job conferences and other project related meetings and prepare and circulate copies of meeting minutes.
- D. Liaison – Serve as Engineer’s liaison with Contractor, working principally through Contractor’s Superintendent and assist in understanding the intent of the Technical Specifications and Contract Drawings and assist Engineer in serving as County’s liaison with Contractor when Contractor’s operations affect County’s on-site operations.
- E. Assist in obtaining from County additional details or information when required for proper execution of the Work.
- F. Advise Engineer and Contractor of the commencement of any Work requiring a Shop Drawing or Sample, if the submittal has not been approved by Engineer.

3.2.21 Engineer’s Review of Work, Rejection of Work, Inspections, and Tests

- A. Verify that tests, equipment and systems startups, operating and maintenance training are conducted in the presence of appropriate personnel and that Contractor maintains adequate record thereof, record and report to County appropriate details relative to the test procedures and startups.
- B. Accompany visiting inspectors representing public or other agencies having jurisdiction over the Project; record the results of these inspections and report to County.
- C. Modifications – Consider and evaluate Contractor’s suggestions for modification in Drawings or Specifications and report with RPR’s recommendations to County. Transmit to Contractor decisions as issued by County.

3.2.22 Limitations of Authority

Resident Project Representative shall not:

Authorize any deviation from the Technical Specifications and Contract Drawings or substitution of materials or equipment, unless authorized by County and approved by County.

- A. Exceed limitations of Engineer's authority as set forth in the Contract Documents.
- B. Undertake any of the responsibilities of Contractor, subcontractors or Contractor's Superintendent.
- C. Advise on or issue directions relative to, or assume control over any aspect of the means, methods, techniques, sequences or procedures of construction unless such advice or directions are specifically required in the Technical Specifications and Contract Drawings.
- D. Advise on or issue directions regarding, or assume control over safety precautions and programs in connection with the Work.
- E. Accept Shop Drawings or sample submittals from anyone other than Contractor.
- F. Shall not authorize County to occupy the Project in whole or in part.
- G. Participate in specialized field or laboratory tests or inspections conducted by others except as specifically authorized by County.

3.2.23 Land and Right-of-Way

- A. The County shall provide to the Contractor information which delineates and describes the land owned and rights-of-way acquired.
- B. The Contractor may provide at the Contractor's own expense and without liability to the County any additional land and access thereto that the Contractor may desire for temporary construction facilities or for storage of materials.

3.2.24 Warranty/Guaranty

- A. The Contractor shall guarantee all materials and equipment furnished and Work performed for a period of one (1) year from the date established as Final Completion or as specified in the Technical Specifications. The Contractor warrants and guarantees for a period of one (1) year from the date of Final Completion that the completed Work is free from all defects due to faulty materials or workmanship and the Contractor shall promptly make such corrections as may be necessary by reason of such defects, including the repairs of any damage to other parts of the system resulting from such defects. The Contractor shall pay for any and all costs associated with correcting these defects, including but not limited to shipping, travel, labor and parts to repair and or replace the Work. The County will give notice of observed defects with reasonable promptness. In the event that the Contractor should fail to make such repairs, adjustments or other Work that may be made necessary by such defects, the County may do so and charge the Contractor the cost thereby incurred. The Performance Bond shall remain in full force and effect through this one (1) year warranty/guarantee period.
- B. All materials shall be of good quality and new. All warranties and guarantees specifically called for by the Specifications shall be provided in writing and expressly run to the benefit of County.
- C. Where defective Work (and damage to other Work) has been corrected, removed or replaced, the correction period hereunder with respect to such Work will be extended for an additional period of one year after such correction or removal and replacement has been satisfactorily completed.

- D. All representations, indemnifications, warranties, and guarantees made in, required by or given in accordance with the Contract documents, as well as all continuing obligations indicated in the Contract documents, will survive the final payment, completion and acceptance of the Work and termination or completion of the Agreement.
- E. The Contract shall cover defects which shall be in existence during such two-year period but which shall not become apparent until thereafter.
- F. Contractor shall be fully responsible for all direct, indirect and consequential costs to the County approximately caused by such defects in materials or workmanship including defects in materials or workmanship supplied to the Contractor by a subcontractor or supplier. Contractor shall also hold the County harmless from liability of any kind arising from damage due to said defects.
- G. Contractor shall make all repairs and replacements or payments promptly upon receipt of written order from the County. If Contractor fails to make the repairs, replacements or payments promptly, County may do the work and Contractor and the Contractor's Surety shall be liable for cost thereof, including but not limited to, fees and charges for engineers, architects, attorneys and other professionals.
- H. County will schedule an inspection eleven (11) months after the Final Completion date, providing Contractor with a minimum of one (1) week notice unless the County and Contractor mutually agree to other arrangements. Owner will contact Contractor to report and schedule any further warranty work as provided herein.

3.2.25 Miscellaneous

- A. Taxes – Contractor shall be responsible for the payment of all applicable taxes, including but not limited to the State of New Mexico Gross Receipts Tax.
- B. Independent Contractor – The relationship of the Contractor to the County shall be that of an independent contractor. The Contractor and all employees and subcontractors of the Contractor, shall not be deemed agents or employees of the County. This agreement shall not be construed as a joint venture or partnership between the parties hereto. Nothing in this Agreement burdens the County with the duties of an employer concerning Contractor or any employee or subcontractor of the Contractor, under any state workers' compensation laws, any state or federal occupational health and safety laws or any other state or federal laws.
- C. Contractor's Authority – Contractor shall not enter into any agreement with any person which binds or is intending to bind County to any duty or obligation unless the County has given Contractor prior written consent to represent the County in such matter. Nor shall Contractor make representations to any person which indicate that Contractor is acting on behalf of the County without the County's prior written consent.
- D. Contractor its agents or employees shall make no representation that they are County employees, nor shall they create the appearance of being employees by using a job or position title on a name plate, business cards or in any other manner bearing County's name or logo.

3.2.26 Dispute Resolution, Applicable Law, and Venue

- A. Arbitration – This agreement is not subject to arbitration.
- B. Dispute Resolution Procedure – The Contractor shall submit in writing to the Purchasing Agent, any claim unresolved by the County concerning performance by the parties, in accordance with Los Alamos County Procurement Code, Section 31-232 – Contract Claims. Contractor shall carry on the Work and adhere to the progress schedule during all disputes or disagreements with County. No Work shall be delayed or postponed pending resolution of any disputes or disagreements, except as County and Contractor may otherwise agree in writing.
- C. Applicable Law, Venue – Contractor and County agree that the laws of New Mexico and County Ordinances shall govern any dispute or claim arising from the Contract or the rights, duties and obligations created therein. Contractor and County further agree that all court actions shall be filed and pursued in New Mexico courts, unless the parties mutually agree to a different forum. Venue shall be in the First Judicial Court of New Mexico, Los Alamos, New Mexico.
- D. If the surety on any Bond furnished by the Contractor is declared as bankrupt or becomes insolvent or its right to do business is terminated in New Mexico or it ceases to meet the requirement in Los Alamos Ordinances, Contractor shall within 10 calendar days thereafter substitute another Bond and surety, both of which must be acceptable to County.
- E. When any period of time is referred to in the Contract documents by days, it will be computed to exclude the first and include the last day of such period. If the last day of such period falls on a Saturday or Sunday or on a day made a legal holiday by Los Alamos County, such day will be omitted from the computation. A calendar day of twenty-four hours measured from midnight to the next midnight will constitute a day.

3.2.27 Examination of Records Provisions

- A. The Contractor agrees that the County, and any authorized representative of the County, shall, until the expiration of six (6) years after acceptance of final payment of the Contract Price, have access to and the right to examine any directly pertinent books, documents, papers and records of the Contractor involving transactions relating to this Contract.

3.2.28 American with Disabilities Act Compliance

- A. The Contractor will comply with all relevant provisions of the Americans with Disabilities Act, as well as with the New Mexico Human Rights Act, and all other applicable local, state, and federal laws governing the rights of the disabled.

3.2.29 A. Bids and Proposals are public Records

Pursuant to the New Mexico Inspection of Public Records Act NMSA- 1978, Chapter 14, Article 2, all materials submitted under this IFB shall be presumed and considered public records. Except to the extent any information may be protected by state or federal law, bids shall be considered public documents and available for review by the public.

3.2.30 Wage Rate Determination

- A. Issuance of the following wage rate determination is done pursuant to Section 13-4-11 N.M.S.A. 1978, as amended, or such successor statute and with duly adopted rules and regulations properly registered with the Supreme Court, as required by law, and other statutes pertaining to public works in New Mexico.
- B. Each certified payroll shall have the correct Wage Rate Decision Number printed clearly on the first page. The Contractor and all Subcontractors shall also submit certified payrolls. Prior to the issuance of a Certificate of Payment, the Contractor shall determine that a certified payroll has been submitted to the State Labor Commission as provided for by State law and that all other provisions applicable to and relating to the payment of wages to artisans, draftsmen, laborers has been abided by and that said payments have been made in accordance with established scales as furnished by the State Labor Commission for this particular contract.

3.3 ATTACHMENTS

3.3.1 License Agreement for Staging Area

THIS LICENSE AGREEMENT (Agreement) is entered into by and between the **Incorporated County of Los Alamos (County)** and **Contractor, a New Mexico Corporation** to be effective for all purposes on _____.

A. PURPOSE

The purpose of this Agreement is to grant to CONTRACTOR the revocable privilege of using County properties (Properties), more specifically described herein, for staging areas to facilitate CONTRACTOR'S work on **Los Alamos County Project No. IFB24-35 El Vado Fiber Optic Line Install**. The County's grant of this revocable privilege shall satisfy County's obligation to provide CONTRACTOR with staging areas under the above-identified Project.

B. TERM

This Agreement shall commence on _____ and shall continue until CONTRACTOR'S work under the above-referenced Project is substantially complete, unless sooner terminated as provided herein.

C. USE OF THE PREMISES

County grants to CONTRACTOR the use of the property described herein for staging area to include the placement, unless specifically excluded herein one (1)-caretaker unit, the storage of Project related materials, and the storage of Project related equipment, and for no other purpose. Caretaker units shall not exceed eight (8) feet by forty (40) feet and may be used as a dwelling unit for CONTRACTOR'S personnel with a maximum of two (2) occupants per unit.

D. GENERAL REQUIREMENTS APPLICABLE TO ALL PROPERTIES

The following requirements are applicable to all Properties unless specifically addressed or modified in Section E. Specific Properties herein: CONTRACTOR shall:

1. Provide properly anchored portable toilets sufficient in number to accommodate all waste generated within the Property. Locate portable toilets as far as possible away from residential development and provide for their regular and routine maintenance and servicing;
2. Provide covered trash receptacles sufficient in number to accommodate all refuse generated within the property and provide for their regular and routine maintenance and servicing;
3. May provide sufficient lighting necessary for security and safety of persons, material and equipment as well as for the security and safety of the public. Such lighting shall be down directed and produce no glare and conform to the New Mexico Dark Sky Act;
4. Provide and maintain a protective buffer between staging activities and nearby water courses;
5. Provide Good housekeeping measures as outlined in the Storm Water Pollution Prevention Plan (SWPPP) will be adhered to at all times;
6. Provide any applicable utility hook-ups at contractor's coordination and expense;
7. Provide storm water pollution protection and management at his/her expense;
8. Ensure staging area boundaries do not encroach onto other properties or open space.

E. SPECIFIC PROPERTIES

The following specific Properties, including specific uses or limitations to such use, are designated as staging areas for use by CONTRACTOR in conformity with the contract documents and this License.

STAGING AREA: An area near the site as coordinated with the Contractor and County Project Manager (Contractor accepts to use area by initialing: _____)

Site-specific requirements are as follows:

1. Weather resistant Information Board for posting required information such as prevailing wage rates, Need to Know information, Notice of Intent, Safety Info, etc.;
2. Fuel storage tank is **not** permitted;
3. Limited Repair of vehicles and equipment is permitted as per SWPPP;
4. Clearing and grubbing is **not** permitted;
5. Grading of the property is **not** permitted;
6. Fencing exists but Contractor is responsible for providing additional security if deemed necessary by the Contractor. Optional lighting to the extent that surrounding homes are not affected by glare is permitted; to be approved by Project Manager;
7. All materials and equipment must be confined within the defined area;
8. Limited storage space of traffic control devices and storage containers is permitted;
9. Maximum of two (2) portable toilets are permitted;
10. Contractor shall provide adequate dust control at proper frequencies within the staging area;
11. Sweep Staging area *as needed*.

G. ASSIGNMENT

This License is not assignable.

H. RECORDS

CONTRACTOR shall maintain throughout the term of this License records necessary to demonstrate that all of the terms and conditions of the License have been met, including but not limited to records relating to any necessary licenses, permits, and other "authorizations" and compliance with any and rules, regulations, requirements or guidelines applicable to CONTRACTOR'S use of the Properties. CONTRACTOR shall make available for inspection by County all records, books of account, memoranda and other documents pertaining to County immediately upon request of County.

I. STRUCTURES, IMPROVEMENTS, ALTERATIONS OR ADDITIONS

Except as specifically permitted or required herein, no structures, improvements, alterations or additions shall be permitted on the Properties without the prior written authorization of County. CONTRACTOR shall maintain and leave the" Properties in a clean condition, free of debris and litter, and restored to their prior condition or as close thereto as is reasonably practicable.

J. LIABILITY

County shall not be liable for any cost of expense or any kind or nature with respect to this License or CONTRACTOR'S use of the Properties, CONTRACTOR shall promptly pay all costs and expenses associated with CONTRACTOR'S use of the Properties including, without limitation, the cost of utility services and fencing. CONTRACTOR shall assure; and provide evidence to County that the insurance maintained by CONTRACTOR under its Contract the performance of work **IFB24-xx** is applicable to and will cover losses resulting from the use of the Properties. CONTRACTOR agrees to indemnify, defend, and hold County harmless from any liability, damage, loss, injury, cause of action, and costs and expenses (including attorneys' fees), of any

kind or nature, arising from or in any way related to the use of the Properties, including but not limited to, any liability, damage, loss, injury, cause of action, or costs and expenses (including attorneys' fees) arising from or in any way related to any actual, threatened or alleged disposal, release, or contamination by hazardous substances of the Properties by CONTRACTOR its employees, subcontractors and agents. CONTRACTOR'S obligations under this Section shall survive the expiration or termination of the License.

K. SAFETY

CONTRACTOR shall assure that all of its operations conducted on the Properties are performed in a safe manner.

L. COUNTY ACCESS TO PROPERTIES

County and its designated representatives shall have access to the Properties at all times. CONTRACTOR shall notify County immediately of any situation that may arise on the Properties that may cause damage or harm to the health, welfare or safety of the public or to the environment and property of County and shall fully cooperate with County in addressing any such situation.

M. APPLICABLE LAWS

CONTRACTOR shall comply with all federal, state, and local laws, regulations, ordinances and, other legal requirements applicable to CONTRACTOR'S use of and activities on the Properties. This License shall be construed and enforced according to the Laws of the State of New Mexico.

N. CANCELLATION AND VACATION OF THE PROPERTIES

County may, at its sole discretion immediately cancel this License or any part hereof at any time with or without cause and no further use shall be made of the Properties by CONTRACTOR. Failure of County to fully enforce any and all provisions of this License shall not constitute a waiver of any future breach of any such terms or provisions. Upon expiration or cancellation of this License, the CONTRACTOR shall remove within seven (7) days all equipment, tools, vehicles, and any other property belonging to the CONTRACTOR from the Properties and shall leave the Properties in clean condition, free of debris and litter and restored to its prior condition or as close thereto as reasonably practicable.

ATTEST:

INCORPORATED COUNTY OF LOS ALAMOS

Naomi D. Maestas
County Clerk

Philo S. Shelton, III P.E.
Utilities Manager

Approved as to Form

J. Alvin Leaphart
County Attorney

Contractor

Title

Date

3.3.2 Wage Rate Information



LABOR RELATIONS DIVISION

401 Broadway NE
 Albuquerque, NM 87102
 Phone: 505-841-4400
 Fax: 505-841-4424

226 South Alameda Blvd
 Las Cruces, NM 88005
 Phone: 575-524-6195
 Fax: 575-524-6194

WWW.DWS.STATE.NM.US

Wage Decision Approval Summary

1) Project Title: El Vado Fiber Optic Line
 Requested Date: 10/17/2023
 Approved Date: 10/18/2023
 Approved Wage Decision Number: RA-23-2814-A

Wage Decision Expiration Date for Bids: 02/15/2024

2) Physical Location of Jobsite for Project:
 Job Site Address: 1 Private Dr.
 Job Site City: Tierra Amarilla
 Job Site County: Rio Arriba

3) Contracting Agency Name (Department or Bureau): Los Alamos County
 Contracting Agency Contact's Name: Lucas Montoya
 Contracting Agency Contact's Phone: (505) 709-7300 Ext.

4) Estimated Contract Award Date: 12/12/2023

5) Estimated total project cost: \$800,000.00
 a. Are any federal funds involved?: No
 b. Does this project involve a building?: No
 c. Is this part of a larger plan for construction on or appurtenant to the property that is subject to this project?: No
 d. Are there any other Public Works Wage Decisions related to this project?: No
 e. What is the ultimate purpose or functional use of the construction once it is completed?:
 The project will construct 13 miles of overhead fiber optic line from the EL Vado Hydroelectric Plant to the Spills Substation in Rio Arriba County.

6) Classifications of Construction:

Classification Type and Cost Total	Description
Highway/Utilities (A) Cost: \$800,000.00	The project will construct 13 miles of overhead fiber optic line from the EL Vado Hydroelectric Plant to the Spills Substation in Rio Arriba County.



TYPE "A" – STREET, HIGHWAY, UTILITY & LIGHT ENGINEERING

Effective January 1, 2023

Trade Classification	Base Rate	Fringe Rate
Bricklayer/Block layer/Stonemason	24.46	8.81
Carpenter/Lather	27.73	12.14
Carpenter- Los Alamos County	33.18	13.58
Cement Mason	18.24	7.61
Drywall Finisher/Taper	25.82	8.40
Glazier		
Glazier/Fabricator	21.25	6.70
Delivery Driver	12.00	6.70
Ironworker	28.05	18.30
Painter- Commercial	18.25	8.50
Paper Hanger	18.25	8.50
Plumber/Pipefitter	38.63	14.55
Electricians- Outside Classifications: Zone 1		
Ground man	25.43	11.76
Equipment Operator	36.48	16.09
Lineman	46.09	18.52
Journeyman technician	42.92	17.73
Cable Splicer	47.22	18.81
Electricians-Outside Classifications: Zone 2		
Ground man	25.43	11.76
Equipment Operator	36.48	16.09
Lineman	46.09	18.52
Journeyman technician	42.92	17.73
Cable Splicer	47.22	18.81
Electricians-Outside Classifications: Los Alamos county		
Ground man	26.15	11.78
Equipment Operator	37.54	16.13

Lineman	47.29	18.82
Journeyman technician	44.15	18.04
Cable Splicer	51.93	19.98
Laborers		
Group I – unskilled	15.99	7.11
Group II – semiskilled	15.99	7.11
Group III – skilled	17.49	7.11
Group IV – specialty	17.99	7.11
Operators		
Group I	21.35	6.74
Group II	22.38	6.74
Group III	22.49	6.74
Group IV	22.62	6.74
Group V	22.73	6.74
Group VI	22.94	6.74
Group VII	23.12	6.74
Group VIII	23.45	6.74
Group IX	31.96	6.74
Group X	35.65	6.74
Soft Floor Layers	21.00	8.45
Truck Drivers		
Group I-IX	19.00	9.10

NOTE: All contractors are required to pay SUBSISTENCE, ZONE AND INCENTIVE PAY according to the particular trade. Details are located in a PDF attachment at WWW.DWS.STATE.NM.US. Search Labor Relations/Labor Information/Public Works/Prevailing Wage Rates.

For more information about the Subsistence, Zone, and Incentive Pay rates, or to file a wage claim, contact the Labor Relations Division at (505) 841-4400 or visit us online at www.dws.state.nm.us.

3.3.3

Directions to Los Alamos County – DPU’s Hydroelectric Power Plants

- **General Description:**
 - Los Alamos County’s (LAC) Department of Public Utilities (DPU) owns and maintains two (2) Hydroelectric Power Plants in rural Northern New Mexico. Both plants reside within our neighboring Rio Arriba County to the North, a 2-3 hour drive north of Albuquerque, NM, depending. This document provides detailed directions to both facilities from multiple origins. A simple Google search should get you in the vicinity. The directions provided here will be from the junction(s) of the 2 major highways nearest the plant(s), as well as links to Google Maps Locations & Directions, as well as pictures of the facilities.

- **Abiquiu Hydroelectric Power Plant**
 - Abiquiu Hydro has no physical address. It is located off of NM 96 at the downstream base of Abiquiu Dam on Abiquiu Lake, NM. This is approximately 55 miles north of Santa Fe, NM and approximately 52 miles south of Chama, NM.
 - **Google Maps Location:** <https://goo.gl/maps/NaRt4i7kPzKP6jm66>
 - **From Points North, South & East:**
 - While nearing Abiquiu Lake when travelling from the North, South or East, you will find yourself on US 84, which is oriented northwest to southeast here. You can see Abiquiu Lake from here.
 - Turn west (right or left, depending) onto NM 96 towards Abiquiu Dam. NM 96 tees into US 84 here, so you can only go west.
 - Go 1.6 miles westerly and southerly on NM 96 to the Dam. Do not cross the Dam. The US Army Corps of Engineers (USACE) Visitor Center will be on the right (towards the lake). Immediately across NM 96 on the left is a sign that reads “Rio Chama Recreation Area” (towards the river) and a road that descends down the downstream face of the Dam. Make a slight left and take this road.
 - The road winds about 0.7 miles down the face of the dam and the Hydro Plant is the large industrial facility located immediately at the bottom within the chain link fence. A blue LAC sign at the gate identifies your destination.
 - Park anywhere inside the yard and come into the large metal building.
 - **Google Maps Directions:** <https://goo.gl/maps/Ybq9GziSVwbBmnFY7>
 - **From Points West:**
 - If travelling to Abiquiu Lake from anywhere to the West, you will find yourself on US 550 about 4 miles north of Cuba, NM as you near the junction to NM 96. US 550 is oriented northwest to southeast here, and on a transition from a north/south to east/west bend.

- Turn northeast (right or left, depending) onto NM 96 towards Regina, NM and Gallina, NM. NM 96 tees into US 550 here, so you can only go northeast.
- Stay on NM 96, travelling northerly at first, then easterly for 47.3 miles to Abiquiu Dam. You will pass through the towns of La Jara, Regina, Gallina and Coyote, NM.
- When you get to Abiquiu Dam, travel north across it to the opposite end. As you cross the dam, you will see your destination down in the river canyon to the right. The US Army Corps of Engineers (USACE) Visitor Center will be on the left (towards the lake). Immediately across NM 96 on the right is a sign that reads "Rio Chama Recreation Area" (towards the river) and a road that descends down the downstream face of the Dam. Make a sharp hairpin turn right and take this road.
- The road winds about 0.7 miles down the face of the dam and the Hydro Plant is the large industrial facility located immediately at the bottom within the chain link fence. A blue sign at the gate identifies your destination.
- Park anywhere inside the yard and come into the large metal building.
- **Google Maps Directions:** <https://goo.gl/maps/3epJTpn2mCJfDiTY6>

El Vado Hydroelectric Power Plant

- El Vado Hydro's physical address is 3070 NM State Rd 112, mile 30.7 El Vado, NM 87575. However, plugging this into Google Maps puts the marker pin slightly off from the entrance gate. It is located off of NM 112 at the downstream base of El Vado Dam on El Vado Lake, NM. This is approximately 105 miles north of Santa Fe, NM and approximately 27 miles southwest of Chama, NM.
 - **Google Maps Location:** <https://goo.gl/maps/1PTkA1YK1DUEfM8h7>
- **From Points North, South & East:**
 - If travelling to El Vado Lake from the North, South or East, you will find yourself on US 84/64 in the town of Tierra Amarilla, NM as you near the junction to NM 112. US 84/64 is oriented north to south here.
 - Turn southwest (right or left, depending) onto NM 112 towards El Vado Dam. NM 112 tees into US 84/64 here, so you can only go southwest.
 - Go 14.4 miles southwesterly towards El Vado Lake, NM.
 - **DO NOT TURN RIGHT TOWARDS EL VADO LAKE STATE PARK.** Go past the turnoff to the park.
 - As you approach the Lake, you'll eventually see the Dam out in front of you. Do not drive up the hill to the Dam. After passing mile marker 31, on the left you'll see the fenced in yard with 2 large red metal carports inside. A blue LAC sign at the gate identifies your destination.
 - Turn left through the gate and follow the road down into the canyon. Park anywhere in the driveway and the office is the white metal building nearest the Dam.
 - **Google Maps Directions:** <https://goo.gl/maps/DYv189xZSNkZQmVh6>

- From Points West (Travel Discouraged During/Following Inclement Weather):
 - ***NOTE: When travelling to El Vado from this direction, the final 15.5 miles is a dirt road terminating at El Vado Dam. Portions are considered “all weather” with enough gravel in it, but not all of it. Travel is discouraged when it is muddy. It is typically passable if it is snow packed. Even if dry, it can be rutted and bumpy. Higher clearance and/or 4 wheel drive vehicles are best, but cars travel it all the time too. This route is more scenic, and even 1 hour faster from Albuquerque as opposed to travelling through Santa Fe. We recommend calling the El Vado Operator and inquire about driving conditions prior to committing to this route.***
 - If travelling to El Vado Lake from anywhere to the West, you will find yourself on US 550 about 4 miles north of Cuba, NM as you near the junction to NM 96. US 550 is oriented northwest to southeast here, and is on a transition from a north/south to east/west bend.
 - Turn northeast (right or left, depending) onto NM 96 towards Regina, NM and Gallina, NM. NM 96 tees into US 550 here, so you can only go northeast.
 - Stay on NM 96, travelling northerly for 12.9 miles to the junction of NM 112. You will pass through the towns of La Jara and Regina, NM. As you approach NM 112, NM 96 makes a hard right hand bend from northwest to easterly at this location.
 - Turn left (northwest) and then stay straight northwest onto NM 112 towards El Vado Dam.
 - NM 112 tees into NM 96 at the sharp bend here, so you can only go northeast.
 - Go 29.6 miles northeasterly towards El Vado Lake, NM. At approximately the half-way point, NM 112 transitions from pavement to dirt road.
 - When you get to El Vado Dam, travel northeast across it to the opposite end. As you cross the dam, you will see your destination down in the river canyon to the right.
 - Stay on NM 112 as it transitions back to pavement, and follow the winding road for another 0.4 miles to the Plant entrance.
 - As you approach the entrance on your right, you'll see the fenced in yard with 2 large red metal carports inside. A blue LAC sign at the gate identifies your destination.
 - Turn right through the gate and follow the road down into the canyon. Park anywhere in the driveway and the office is the white metal building nearest the Dam.
 - ***Google Maps Directions: <https://goo.gl/maps/VSNPM25BCDPTF9Qp6>***

- **NOTES:**

- The distance between Abiquiu and El Vado Hydro plants is 53.8 miles via NM 96, US 84, US 84/64, NM 531 and NM 112.
 - **Google Maps Directions:** <https://goo.gl/maps/LqqCZt9nsRb8de7G9>
- If you get lost, want to inquire about driving directions, or arrive to find a locked gate, contact the local Power Plant Operator at the following numbers:
 - **Abiquiu Hydro:**
 - (505) 685-4407 (Primary Landline)
 - (505) 662-8338 (Secondary SCADA line)
 - **El Vado Hydro:**
 - (575) 588-7826 (Primary Landline)
 - (505) 662-8216 (Secondary SCADA line)
- If no one answers immediately, leave a message, wait 5 minutes and try again. As a last resort, if no one answers, contact Power Operations Center (Dispatch). They will know the location of all Operators and contact one of them by other means.
 - **Dispatch (POC):**
 - (505) 667-4058 (Primary)
 - (505) 667-7074 (Secondary)
 - (505) 663-0039 (Secondary)

- **APPENDICES FOLLOWING:**

- Appendix A: Pictures with Notations





3.4 TECHNICAL SPECIFICATIONS

<https://losalamosnm.egnyte.com/fl/5E3kjLN2xH>



LOS ALAMOS