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# Yuma County, AZ



## Request for Proposal County Administration

July 6, 2021

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## NOTICE OF REQUEST FOR PROPOSAL

Yuma County is soliciting proposals for:

### MIDDLE-MILE FIBER OPTIC NETWORK and WIDE AREA NETWORK

**Proposal Invitation No.:** YC21-22B

**Proposal for:** Middle-Mile Fiber Optic Network and Wide Area Network

**Proposal Due Date & Time:** July 30th, 2021 – 4:00 p.m. / M.S.T.

**Address:** Yuma County Administration  
198 S. Main Street  
Yuma, Arizona 85364  
Attn: Susan K. Thorpe  
County Administrator/Clerk of the Board

#### Section 1. GENERAL INFORMATION

Sealed proposals will be accepted by the Yuma County Clerk of the Board, 198 S. Main Street, Yuma AZ 85364 until 4:00 p.m. local time – Friday, July 30th, 2021. Proposals received after this specified time and date will not be considered. The sealed proposals will be publicly opened and each Vendor's name read aloud on the same date and time in the office of the County Administrator for the following:

**YUMA COUNTY IS SEEKING A PUBLIC OR PRIVATE PARTNER THAT CAN CONSTRUCT, MAINTAIN, AND MANAGE AN AFFORDABLE, RELIABLE, AND SCALABLE FIBER OPTIC MIDDLE MILE NETWORK TO SUPPORT NEXT GENERATION HIGH SPEED BROADBAND INTERNET TO BUSINESSES, RESIDENCES, AND OTHER ENTITIES. THIS SHOULD ALLOW FOR THE EXPANSION OF ECONOMIC DEVELOPMENT, DISTANCE EDUCATION AND TELEMEDICINE, SMART GOVERNMENT APPLICATIONS, DIGITAL DIVIDE SOLUTIONS, AND OTHER ADVANCED INTERNET AND IP BASED PRODUCTS AND SOLUTIONS.**

**AS PART OF THIS NETWORK, THE COUNTY IS ALSO REQUESTING A DEDICATED FIBER-BASED PRIVATE WIDE AREA NETWORK (WAN) FOR THE PURPOSE OF INTERCONNECTING COUNTY BUILDINGS LOCATED THROUGHOUT THE COUNTY.**

**THE COUNTY SEEKS INNOVATIVE AND CREATIVE SOLUTIONS AND WELCOMES VARIOUS BUSINESS MODELS AND APPROACHES TO CONSIDER, IN ADDITION TO THE SPECIFIC REQUEST MADE IN THIS DOCUMENT. THE COUNTY UNDERSTANDS THAT IT MAY BE UNLIKELY THAT ONE ENTITY FILLS THIS ROLE OF EXPERIENCED PROVIDER, CAPITAL PARTNER, AND SMART COUNTY SOLUTION PROVIDER, AND SO IS WILLING TO CONSIDER RESPONSES THAT INCLUDE MULTIPLE PARTIES.**

**THE PROPOSALS SUBMITTED AND THE CONTRACT, IF AWARDED, SHALL BE IN COMPLETE ACCORDANCE WITH, WITHOUT LIMITATION, THIS REQUEST FOR PROPOSAL, ATTACHED SPECIFICATIONS, ALL CODES, REQUIREMENTS AND REGULATIONS REFERENCED THEREIN, UNLESS CHANGES ARE MUTUALLY AGREED UPON BY YUMA COUNTY AND THE SELECTED VENDOR DURING CONTRACT NEGOTIATIONS.**

## Section 1. GENERAL INFORMATION (continued)

**THE COUNTY PLANS TO SEEK STATE AND/OR FEDERAL GRANT FUNDING FOR THIS PROJECT. IN ADDITION, THE COUNTY EXPECTS THE SUCCESSFUL VENDOR TO CONTRIBUTE SIGNIFICANT CAPITAL INVESTMENT. THE COUNTY WILL ALSO CONTRIBUTE FUNDING TO THIS PROJECT.**

Questions regarding this Request For Proposal should be **in writing via email** and should reference the above RFP number, **YC21-22B**, in the Subject line. Submit all questions to Yuma County Administrator Susan K. Thorpe via e-mail at: [Susan.Thorpe@Yumacountyaz.gov](mailto:Susan.Thorpe@Yumacountyaz.gov).

### **COUNTY OVERVIEW**

Yuma County is one of 15 counties in the State of Arizona. It is located in the southwestern corner of the state. The County borders three states: California to the west across the Colorado River, and Sonora, Mexico, to the south, and Baja California, Mexico to the west.

Larger than the state of Connecticut, much of Yuma County's 5,522 square miles is desert land accented by rugged mountains. Several river valley regions, however, contain an abundance of arable land, which is irrigated with water from the Colorado River. The County is comprised of four incorporated cities and towns (2019 population estimates): City of Yuma (108,010 population), City of San Luis (39,705), City of Somerton (18,093), and Town of Wellton (3,354).

Unincorporated Yuma County comprises a population of 66,213. There are a number of unincorporated communities in Yuma County. The largest is the Yuma Foothills with an estimated population of 30,000 year round residents. Other unincorporated communities in east County include Tacna, Dateland, Roll and Hyder. The population of Yuma County increases by 80,000 to 100,000 residents November through March due to winter visitors from Canada and the northern and northwestern U.S., as well as an agricultural workforce that increases to support the wintertime vegetable season.

Yuma County includes two Indian Tribes – the Fort Yuma Quechan Tribe and Cocopah Tribe.

Agriculture, tourism, and two military bases, US Marine Corps Air Station (MCAS) and US Army Yuma Proving Ground (YPG) are Yuma County's principal industries. Agriculture is a \$3.2 billion business annually, employing tens of thousands of workers. Yuma County is ranked in the top 1/10th of one percent of all U.S. counties in various measures of agricultural production. Yuma County includes 230,000 acres of farmland. With an average of just over three inches of rain a year, the mighty Colorado River running through the region is responsible for Yuma's rich soil due to its millions of years of deposited sediments. These conditions provide an extended growing time, which makes way for over 175 types of crops and seeds to be grown here. The largest of these crops are lettuce and other leafy greens, with 80-90% of all wintertime leafy green vegetables in North America being grown or processed in Yuma County. Other notable crops are lemons, melons, alfalfa, Sudan grass, cotton, dates, and wheat. 71% of Durum wheat production in the area is exported to Italy to be used in premium pasta production. As agriculture technology rapidly evolves with remote sensing, automation and mechanization, Yuma County is a prime location for technology development that can only happen with reliable broadband service across all agricultural areas of the county.

Yuma Proving Ground is the Department of Defense's second largest installation, covering 833,000 acres – larger than the state of Rhode Island. It is responsible for controlled airspace over 2,000 square miles of land. Both military and commercial systems are tested utilizing the YPG infra, and GM's desert proving grounds are co-located there. YPG employs 150 military personnel, 2,360 civilians and has an economic impact of \$400 million on the Yuma region (2019 data).

## **Section 1. GENERAL INFORMATION (continued)**

Marine Corps Air Station - Yuma (MCAS) is currently the busiest air station in the Marine Corps, offering excellent year-round flying conditions and thousands of acres of open terrain for air-to-ground weapons ranges, and associated restricted airspace for military flight operations. Marine Aviation Weapons and Tactics Squadron 1 (MAWTS-1) is a major aviation command at MCAS Yuma, conducting training for all Marine Corps tactical aviation units, most notably the Weapons and Tactics Instructor (WTI) course. Marine Fighter Training Squadron 401 (VMFT-401) is a Marine Air Reserve squadron also based at MCAS Yuma, containing both active duty and Selected Marine Corps Reservists, providing aerial adversary/aggressor services and dissimilar air combat training (DACT) for all U.S. military services, and selected NATO, Allied, and Coalition partners. MCAS shares one of the longest runways in the country with the Yuma International Airport. MCAS employs 3,681 military personnel, 924 civilians and 1,118 contractors. It has an economic impact of \$583 million on the region (2019 data).

Crossborder trade with Mexico is a large economic contributor to Yuma County's and Arizona's economy. Yuma County includes two Land Ports of Entry – San Luis I serves all pedestrian and privately owned vehicles traveling to and from Mexico. San Luis II serves all commercial traffic traveling to and from Mexico.

### **PROJECT BACKGROUND**

Like many rural areas in the nation, portions of Yuma County have low population density, making it less desirable for telecommunications providers to invest in deploying and operating a reliable and affordable broadband network. Faced with challenges in economic development in a more information-based age, along with complaints from county residents and businesses regarding the need for broadband in support of tele-medicine, tele-education, tele-business and AgTech innovation, the Yuma County Board of Supervisors approved the formation of the Yuma County Broadband Task Force, made up of representatives from a variety of public/private entities in the county, to research and recommend a solution to this need. The Task Force is building on the work of a community wide Broadband Action Committee that has been operating for more than two years.

The Task Force has decided to move forward with an RFP for one or more vendors to design, construct, manage and maintain a middle mile fiber project extending out to connect the larger population centers in the County - City of Yuma, City of Somerton, City of San Luis, Town of Wellton - along with locations across the County that can support wireless towers for extending the broadband network for miles in all directions along the fiber route.

The intent of Yuma County is for the selected Vendor to design and build a Yuma County Wide Area Network (WAN) private network and a diverse redundant open access middle mile backbone.

### **The middle mile backbone shall be designed and built so that it can be extended by two additional future phases in Yuma County:**

- (1) Fiber to the premise for all residents and businesses in more populated areas, with a minimum starting speed of 1Gbps for residents and 10Gbps for businesses, and
- (2) Fiber to the tower for wireless service to residents, businesses and agricultural areas where fiber to the premise is not feasible or is cost-prohibitive.

The backbone requested in this RFP should be designed and built with the capability and capacity to be extended in these two ways.

## Section 1. GENERAL INFORMATION (concluded)

Using industry standards, the network shall allow for simplified physical and logical transition or demarcation points to serve as hand off to the County to build out its private WAN, and future state items 1 and 2 as outlined above. Use of and transition between aerial and underground access must be clearly identified in the proposal. Aerial splice points must have joint use agreements in place and allow for partnering with others including the County as needed. Cost for transition from aerial to vault splicing must be clearly identified noting responsible party; specifically at hand off to the County for its private WAN, FTTP, and close proximity to possible wireless sites and/or towers.

### **CLARIFICATION AND/OR EXCEPTIONS OF DOCUMENTATION**

Vendors requiring clarification or having a dispute with these documents must advise Susan K. Thorpe, Yuma County Administrator, [Susan.Thorpe@Yumacountyaz.gov](mailto:Susan.Thorpe@Yumacountyaz.gov) of the nature of the required clarification or basis of the dispute, in writing, no later than **July 16<sup>th</sup>, 2021**. If no written contact has been made by this specified date, the Vendor waives the right to any future consideration and accepts the documents as published and/or revised by the County.

**Additionally, submitting a signed bid shall be construed as a total compliance statement for all paragraphs included in this RFP.**

## Section 2. SCHEDULE OF ACTIVITIES

### **RFP SCHEDULE**

- RFP Public Issued and Newspaper Advertisement: July 5<sup>th</sup> through 16<sup>th</sup>, 2021
- Proposals will be sent to vendors on our current listing.
- Prospective respondent's written question deadline: July 16<sup>th</sup>, 2021  
(No questions accepted after this date)
- Responses to questions: July 23<sup>rd</sup>, 2021
- Due date for proposals: July 30<sup>th</sup>, 2021
- Award date: August 16<sup>th</sup>, 2021  
Board of Supervisors Meeting (Anticipated)

NOTE: Award date is approximate and subject to change at the discretion of Yuma County.

## Section 3. PROPOSAL FORMAT

### **RFP SUBMITTAL**

**An unbound original, twelve (12) copies (collated in sets) and one (1) electronic copy (USB flash drive)** of the proposal and all required RFP submittal data including any Vendor generated specifications, drawings, etc., shall be enclosed within a sealed envelope with the words, "**RFP YC21-22B– Yuma County Middle-Mile Fiber Network/Wide Area Network**" and the Vendor's name and address clearly shown on the outside thereof. **Submittals received with less than the requested number of copies or not submitted with all requested information may be disqualified as non-responsive.**

Mailed proposals must be received in the office of the Yuma County Clerk not later than the time set forth for RFP opening. Yuma County will not be responsible for any lost or late arriving proposals sent via the U.S. Postal Service or other delivery services.

PROPOSAL COVER SHEET:

MIDDLE-MILE FIBER OPTIC NETWORK/WIDE AREA NETWORK

FOR

YUMA COUNTY, ARIZONA

DUE: 4:00 PM ARIZONA TIME, JULY 30<sup>th</sup>, 2021

RFP NO. YC21-22B

THIS RFP SHALL BE VALID FOR NINETY (90) DAYS FROM DATE OF OPENING

Company Name \_\_\_\_\_

Company Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Telephone (\_\_\_\_\_) \_\_\_\_\_ Fax (\_\_\_\_\_) \_\_\_\_\_

E-Mail Address \_\_\_\_\_

The following Proposal is in strict accordance with the Yuma County RFP, dated \_\_\_\_\_ and all attachments as referenced therein.

**“I hereby certify that I understand and am aware that Yuma County, at its sole discretion, reserves the right to waive technicalities or irregularities, to reject any or all proposals, and/or to accept that proposal which is in the best interest of the County.**

The award of this proposal, if made, may be based on considerations other than total cost and may be awarded based on various considerations, including without limitation: Vendor’s experience and/or qualifications, past experience, cost, standardization, technical evaluation and oral and/or written presentations as required. The County reserves the right to accept all or part, or to decline the whole, and to award this RFP to one or more Vendors. There is no obligation to buy. The RFP, if awarded, will be in the judgment of the County the most responsive to the County’s needs and goals. Yuma County encourages the use of local, minority and/or women-owned businesses as subcontractors or in joint venture arrangements.”

|                                      |                             |                              |
|--------------------------------------|-----------------------------|------------------------------|
| _____                                | _____                       | _____                        |
| <b>Name and Title</b>                | <b>Authorized Signature</b> | <b>Date Signed</b>           |
| _____                                | _____                       | _____                        |
| _____                                | _____                       | _____                        |
| <b>Name of Contact for Questions</b> | <b>Contact Phone Number</b> | <b>Contact Email Address</b> |

## **Section 4. EXPECTED OUTCOMES AND HIGH-LEVEL DELIVERABLES**

Yuma County leadership is committed to the successful future of our community. To that end, we believe the following to be true:

- Affordable and reliable high-speed Internet access to all residents and business is essential to enabling a “world class community”.
- Sustainable economic development, growth, opportunity, and innovation are dependent on high-speed access.
- We should leverage existing assets for the greatest benefit to citizens and community business partners.
- County leadership can help engage local business leaders and service providers to plan for our community’s needs.

### **SPECIFIC BUSINESS MODEL AND REQUIREMENTS**

Please submit a proposal based on these criteria. Additional proposals may be submitted if a Vendor has other models that meet the expected outcomes and high-level deliverables.

1. The Vendor(s) must be registered and/or authorized to build, construct and manage broadband services in accordance with Arizona statutes and regulations.
2. Proposal should include past performance, capabilities, and qualifications demonstrated by an explanation of how the responder is suitable for this project. At a minimum responder, should address the following:
  - a. Identify three (3) other public-entity networks your company has built and operated, as well as any network design and build experience; include the level of broadband speed, technology type, availability and adoption among different categories of end users and unique capabilities or attributes. Discuss your capabilities with regard to engineering and design of broadband networks systems or any alternative technology, if that is what you propose. Include entity name, entity address, contact name, title, phone number and email address.
  - b. Customer satisfaction – Provide past or current customer satisfaction surveys or metrics that demonstrate all facets of the overall customer experience.
  - c. Describe agreements with other service providers, government, or non-profit entities you have undertaken, particularly any in which you provide service to unserved or underserved populations (Digital Divide). Describe the nature of the projects and your company’s role.
  - d. Discuss your capabilities regarding operation and maintenance of the form of broadband technology you propose. Overall operation, including routine and emergency maintenance, of the network will be crucial to its success. Please demonstrate through experience your ability to operate and maintain all aspects of the network.
  - e. Financial Statements: Provide audited financial statements for the most recent two (2) year period. Is your company a subsidiary or affiliate of another company? Provide full disclosure of all direct or indirect ownership. If you are a wholly owned subsidiary of another company or corporation and do not possess audited financial statements, unaudited financial statements for the subsidiary for a two (2) years period must be submitted as supplemental information to the company’s financial statements in order to meet this requirement. These documents should be affixed to all proposals, submitted by the company named in the proposal sheet.

## **Section 4. EXPECTED OUTCOMES AND HIGH-LEVEL DELIVERABLES (continued)**

- f. Provide any pending legal matters against your company. Describe any pending agreements to merge or sell your company or any portion.
  - g. Provide customer service metrics outlining your plan's targets to include performance guarantee(s) with at-risk assumptions.
3. Proposed pricing/payments/ownership structure must be compliant for potential bond issuance by the County. Pricing is to be provided for a 20-year term for the County's portion of the fibers, split out as an install price/payment schedule for the design, construction, and turn-up of the fiber optic network and management of the fiber optic network which should include service level agreements outlining response times and costs associated with disruptions resulting from any logical or physical outages. Proposals must clearly separate any costs and service level agreements for the middle mile network and the County's private WAN networks. Any recurring monthly costs will be deemed a usage fee and applicable only to the middle mile network, and assumed pass through to the Service Providers and or end-customers.
4. Vendor should describe their approach to the following (break proposal into two sections - one for County WAN and one for Backbone to all other locations):

A public/private partnership that provides **Yuma County** with **dedicated, private fiber WAN** connectivity for its specified County locations specified in **Attachment A**, in addition to any fibers Vendor wants to install for its own use/wholesale.

**AND**

A public/private partnership that provides Yuma County with a **diverse redundant open access broadband backbone that provides service to all anchor locations in Yuma County specified in Attachment B:**

- a. Unless otherwise specified, all listed locations in **Attachment A** will have a 12-fiber lateral (using duct/conduit) built into the building, terminated on a fiber termination/patch panel at an internal location not more than 100 cable feet from the point of entry. Costs for internal cable distances of more than 100 cable feet from the point of entry will be paid for by the facility. At least thirty (30) feet of separation from existing telecommunication providers' points of entry and lateral entrance routes is required.
- b. For each connected entity location, there will be a quantity of dedicated fibers in the middle-mile fiber cable equal to the number of fibers in that location's lateral. Note: For scalability, spare private fibers for the county's use should be planned for as additional county-related sites are added in subsequent phases.
- c. Vendor will include the optics (xFP or SFP+, for example) cost to light two (2) fiber pairs at each specified location four (4) at the Yuma County locations of Yuma County Justice Center 250 W. 2nd St., Yuma County Public Works 4343 S. Ave 5 ½ E, Public Health Department 2200 W. 28<sup>th</sup> St, South County Complex 1358 E. Liberty St San Luis, East County Complex 10260 Dome St. Wellton, plus a spare set per specified location, in their pricing. Assume 10 Gbps bandwidth for pricing purposes. Specify additional one-time/recurring costs, if any, for optics above and beyond the initial optics required above.
- d. Vendor shall install cable splice handholes/vaults (for underground fiber segments) or aerial fiber splice cases (for aerial fiber segments) every 500 feet or less within incorporated area boundaries and every 750 feet or less everywhere else.

**Section 4. EXPECTED OUTCOMES AND HIGH-LEVEL DELIVERABLES (continued)**

- e. Vendor may market their backbone fibers or services on those fibers on a retail or commercial basis to other parties, including other telecommunications providers, or use it



for their own purposes. Please indicate if Vendor will provide a revenue share to the County for revenue received from Provider fibers for leasing dark fiber and/or providing services on those fibers and, if so, a detail of how that revenue share model would work and be calculated.

5. Provide a map (ESRI format) of your proposed network routes, including notations for fiber count, aerial versus underground route segments, identification of Attachment A locations, tower locations in Item 6 above, and other locations of significance along the fiber route(s).
6. Please describe the recognized telecommunication industry fiber optic network material and construction specifications you will adhere to for this project. Please review Attachment B and indicate how you will comply or propose to amend each requested specification.
7. Please confirm the network will support both active and passive signal distribution.
8. Please describe in detail how Vendor will document the fiber optic network, including, but not limited to: as-builts, fiber strand assignments, maintenance records, splicing assignments, link loss budgets and other operating characteristics. How will this information be shared with the County at completion of the project and an ongoing basis?
9. Please describe in detail how Vendor will monitor the network for physical and transmission service issues, impairments, and outages. How will this information be shared with the County?
10. Please describe in detail Vendor's Service Level Agreement policies and thresholds for:
  - a. Lit Services:
    - i. Availability
    - ii. Mean Time To Respond
    - iii. Mean Time To Repair
    - iv. Packet Loss
    - v. Latency (round-trip)
    - vi. Jitter
  - b. Dark Fiber:
    - i. Availability
    - ii. Mean Time To Respond
    - iii. Mean Time To Repair
11. Please describe in detail Vendor's Service Level Agreement credit policies and structure for violations of the above thresholds.
12. Please describe in detail Vendor's trouble ticketing system, including customer portals and how information will be shared with the County.
13. Please describe in detail Vendor's network management capabilities and its escalation policies and procedures.
14. Please provide a detailed overview, at minimum that includes a deployment plan, communications plan, and timelines to accomplish the goal of building a Middle-Mile Fiber Optic Network/Wide Area Network, along with local lateral drops to listed locations, as specified in this RFP. The project goal is to be operational by **December 2022**; please indicate factors that would prevent Vendor from meeting this goal and how those factors could be mitigated.
15. Please provide a description of the roles and responsibilities envisioned for Vendor, Vendor team members, Yuma County and its affiliates, and subcontractors and/or third parties (if applicable) for each of the following:
  - a. Network(s) design
  - b. Network(s) construction
  - c. Network(s) operations and management
  - d. Customer support
  - e. Publicly available information

#### **Section 4. EXPECTED OUTCOMES AND HIGH-LEVEL DELIVERABLES (concluded)**

- c. Network(s) operations and management
- d. Customer support
- e. Publicly available information

- f. Marketing
16. Vendor will make this network available for broadband providers at competitive market rates for dark fiber/lit services. The County anticipates that Vendor may want to also provide Ethernet and/or Internet services on the network. Please provide, as a separate cost item, a schedule of Internet services Vendor offers to provide to locations connected to this network. Provide a scalable cost model showing minimum performance capacity of 1Gbps up/down per anchor site, scaling up incrementally to industry standard for like middle mile buildouts showing vendor recommended maximum capacity. End-customer connection should be supported by the middle-mile network; desired minimum performance capacity of 1Gbps up/down per end-customer connection. Provide a scalable cost model showing options for different capacity needs based on end-customer location, type and size.
  17. Please provide information regarding your strategy/suggestions for interconnecting this network to other middle-mile networks for connectivity to Tier 1/2 Internet backbone providers located in Arizona or adjoining states. Vendor must adhere to ADOT standards for interconnection; same vault sizes and placement (distance between), splicing standards, etc.
  18. If any of the locations in Attachment A or Attachment B are located in an FCC Rural Digital Opportunity Fund (RDOF) area, federal funds cannot be used to construct the middle mile backbone. Private funds or other non-federal sources will be used in those areas.
  19. **Attachment C** includes the fiber construction specifications required by the County for this project.

## **Section 5. PROPOSAL EVALUATION AND SELECTION PROCESS**

It is the intent of Yuma County to award the contract for this project to the entity most responsive to all aspects of this RFP. A committee will evaluate all proposals based on the criteria and weighting described below:

25% - Project Plan – Including a work breakdown structure, duration estimates per activity and statement of work with all planned deliverables.

25% - Ability to Complete the Project – schedule, specifications, scope, quality, customer satisfaction.

25% - Cost of the overall project – **NOTE:** Vendor will provide a total cost of the project to accomplish the WAN and the diverse redundant fiber backbone for Yuma County. It is anticipated that the Vendor will identify the amount of private investment they will commit to the project. Any remaining funds will be sought through federal and state grants and local government contribution.

10% - Past Performance/Project Success – previous success with similar projects, including specific references and point of contact information.

10% - Innovation – Ability to provide viable options and scalability which consider our local and regional opportunities and challenges.

5% - Corporate stability and ability to provide proposed services.

## **Section 6. GENERAL TERMS**

### **PROPRIETARY INFORMATION**

Any restriction on the use of data contained within any proposals must be clearly stated in the proposal itself. Proprietary information submitted in response to this RFP will be handled in

accordance with applicable purchasing procedures. Each and every page of the proprietary material must be labeled or identified with the word "proprietary".

### **RESPONSE MATERIAL OWNERSHIP**

All material submitted regarding this RFP shall become property of Yuma County and will not be returned to the respondent. Responses received will be retained by Yuma County and may be reviewed by any person after final selection has been made, subject to paragraph above. Yuma County has the right to use any or all system ideas presented in reply to this RFP, subject to limitations in paragraph above. Disqualification or non-selection of a respondent or proposal does not eliminate this right.

### **INCURRING COSTS**

Yuma County is not liable for any cost by the respondents prior to issuance of a contract.

### **SUFFICIENT APPROPRIATION**

A contract awarded as a result of this RFP is contingent upon the availability of funds. A contract may be terminated or reduced in scope if sufficient funds do not exist without penalty to Yuma County. Sending written notice to the Vendor shall effect such termination or reduction in scope. The Yuma **County Program Manager's (to be determined)** decision to terminate or reduce the scope due to insufficient appropriations shall be accepted as final by the Vendor.

### **COMPLIANCE WITH LAWS AND REGULATIONS**

The successful Vendor shall comply with all Federal, State, and Local laws and regulations and Yuma County rules and policies pertaining to work under its charge, and shall, at its expense, procure any permits that may be required. To the extent applicable under A.R.S. § 41-4401, the Contractor and its subcontractors warrant compliance with all federal immigration laws and regulations that relate to their employees and compliance with E-verify requirements under A.R.S. § 23-214(A). Contractor shall further ensure that each subcontractor who performs any work for the County under this contract likewise complies with the State and Federal Immigration Laws.

### **ISRAEL BOYCOTT CERTIFICATION**

If the Vendor engages in for-profit activity and has 10 or more employees, and if this Agreement has a value of \$100,000 or more, Vendor certifies it is not currently engaged in, and agrees for the duration of this Agreement not engage in, a boycott of goods or services from Israel. This certification does not apply to boycott prohibited by 50 U.S.C. § 4842 or a regulation issued pursuant to 50 U.S.C. § 4842.

### **COOPERATIVE USE AGREEMENT**

In addition to the County of Yuma and with approval of the awarded contractor, this Agreement may be extended for use by other municipalities, school districts and government agencies of the State. A current listing of eligible entities may be found at <https://www.mesaaz.gov/business/purchasing/save?locale=en> and then click on 'Contracts', 'S.A.V.E.' listing. Any such usage by other entities must be in accordance with the ordinance, charter and/or procurement rules and regulations of the respective political entity.

Orders placed by other agencies and payment thereof will be the sole responsibility of that agency. The County shall not be responsible for any disputes arising out of transactions made by other agencies who utilize this Agreement.

## **Section 7. INSURANCE REQUIREMENTS**

### **STATEMENT OF PURPOSE**

Yuma County (the "County") from time to time enters into agreements, leases and other contracts with Other Parties (as hereinafter defined).

Such Agreements shall contain at a minimum risk management/insurance terms to protect the County's interests and to minimize its potential liabilities. Accordingly, the following minimum requirements shall apply:

### **COUNTY DEFINED**

The term County (wherever it may appear) is defined to mean Yuma County, Arizona, itself, its Board, employees, volunteers, representatives, contracted consultants, and agents.

### **OTHER PARTY DEFINED**

The term Other Party (wherever it may appear) is defined to mean the other person or entity which is the counter-party to the Agreement with the County and any of such Other Party's subsidiaries, affiliates, officers, employees, volunteers, representatives, agents, contractors and subcontractors.

### **LOSS CONTROL/SAFETY**

Precaution shall be exercised at all times by the Other Party for the protection of all persons, including employees, and property. The Other Party shall comply with all laws, rules, regulations or ordinances related to safety and health, and shall make special effort to anticipate and detect hazardous conditions and shall take such precautionary and prompt action where loss control/safety measures should reasonably be expected.

The County may order work to be stopped at any time, without liability, if conditions exist that present immediate danger to persons or property. The Other Party acknowledges that such stoppage, or failure to stop, will not shift responsibility for any damages from the Other Party to the County.

### **INSURANCE - BASIC COVERAGES REQUIRED**

The Other Party shall procure and maintain the following described insurance, except for coverage specifically waived by the County, on policies and with insurers acceptable to the County, and insurers with AM Best ratings of no less than A.

These insurance requirements shall in no way limit the liability of the Other Party. The County does not represent these minimum insurance requirements to be sufficient or adequate to protect the Other Party's interests or liabilities but are merely minimums.

"Except for workers' compensation and professional liability, the Other Party's insurance policies shall be endorsed to name Yuma County as **additional insured**. It is agreed that the Other Party's insurance shall be deemed primary and non-contributory with respect to any insurance or self-insurance carried by Yuma County for liability arising out of the operations of this agreement.

Except for worker's compensation, the Other Party waives its right of recovery against the County, to the extent permitted by its insurance policies.

**Section 7. INSURANCE REQUIREMENTS (continued)**

The Other Party's deductibles/self-insured retentions shall be disclosed to the County and may be disapproved by the County. They shall be reduced or eliminated at the option of the County. The Other Party is responsible for the amount of any deductible or self-insured retention.

Insurance required of the Other Party or any other insurance of the Other Party shall be considered primary, and insurance of the County shall be considered excess, as may be applicable to claims which arise out of the Hold Harmless, Payment on Behalf of Yuma County, Insurance, Certificates of Insurance and any Additional Insurance provisions of this agreement, contract, or lease.

**Commercial General Liability:** This insurance shall be an "occurrence" type policy written in comprehensive form and shall protect the Other Party and the additional insured against all claims arising from bodily injury, sickness, disease, or death of any person other than the Other Party's employees or damage to property of the County or others arising out of any act or omission of the Other Party or its agents, employees, or Subcontractors and to be inclusive of property damage resulting from explosion, collapse or underground exposures. This policy shall also include protection against claims insured by usual personal injury liability coverage, and to insure the contractual liability assumed by the Other Party under the article entitled **INDEMNIFICATION**, and **"Products and Completed Operations" coverage**.

The Other Party is required to continue to purchase products and completed operations coverage for a minimum of three years beyond the County's acceptance of renovation or construction properties.

**The liability limits shall not be less than:**

|  |   |
|--|---|
| <b>Bodily Injury and<br/>Property Damage</b> | <b>\$1,000,000<br/>Single limit each occurrence</b> |
|--|---|

**Business Automobile Liability:** Business Auto Liability coverage is to include bodily injury and property damage arising out of ownership, maintenance or use of any auto, including owned, non-owned and hired automobiles and employee non-ownership use.

**The liability limits shall not be less than:**

|  |   |
|--|---|
| <b>Bodily Injury and<br/>Property Damage</b> | <b>\$1,000,000<br/>Single limit each occurrence</b> |
|--|---|

**Workers' Compensation:** Vendor shall maintain appropriate Workers' Compensation coverage during the term of the contract.

All subcontractors shall be required to maintain Workers' Compensation.

## **Section 7. INSURANCE REQUIREMENTS (concluded)**

**Excess Liability:** This insurance shall protect the Other Party and the additional insured against all claims in excess of the limits provided under the employer's liability, commercial automobile liability, and commercial general liability policies. The policy shall be an "occurrence" type policy, and shall follow the form of the General and Automobile Liability.

The liability limits shall not be less than \$1,000,000.

### **EVIDENCE/CERTIFICATES OF INSURANCE**

Required insurance shall be documented in Certificates of Insurance that will provide that the County shall be notified at least 30 days in advance of cancellation, nonrenewable, or adverse change.

New Certificates of Insurance are to be provided to the County at least 15 days prior to coverage renewals.

If requested by the County, the Other Party shall furnish complete copies of the Other Party's insurance policies, forms, and endorsements.

For Commercial General Liability coverage, the Other Party shall, at the option of the County, provide an indication of the amounts of claims payments or reserves chargeable to the aggregate amount of liability coverage.

Receipt of certificates or other documentation of insurance or policies or copies of policies by the County, or by any of its representatives, which indicate less coverage than required does not constitute a waiver of the Other Party's obligation to fulfill the insurance requirements herein.

#### **Attachments:**

- A. Yuma County Private WAN Locations
- B. Additional Anchor Institutions/Locations
- C. Fiber Construction Specifications

**END OF REQUEST FOR PROPOSAL**

**ATTACHMENT A: Yuma County Private WAN Locations**

| LOCATION                                      | ADDRESS or GPS COORDINATES   | CITY     | STATE   | ZIP   | LATERAL / BACKBONE FIBERS |
|---|------------------------------|----------|---------|-------|---------------------------|
| Yuma County Justice Center                    | 250 W. 2 <sup>nd</sup> Ave   | Yuma     | Arizona | 85364 | 12                        |
| Public Health Department                      | 2200 W. 28 <sup>th</sup> St  | Yuma     | Arizona | 85364 | 12                        |
| Public Works                                  | 4343 S. Ave 5 ½ E            | Yuma     | Arizona | 85365 | 12                        |
| East County Complex                           | 10260 Dome St                | Wellton  | Arizona | 85356 | 12                        |
| South County Complex                          | 1358 E. Liberty St           | San Luis | Arizona | 85349 | 12                        |
| Administration Building                       | 198 S. Main St               | Yuma     | Arizona | 85364 | 12                        |
| Administration Building Annex (After rebuild) | 197 S. Main St               | Yuma     | Arizona | 85364 | 12                        |
| Information Technology Services               | 2717 S. Ave B                | Yuma     | Arizona | 85364 | 12                        |
| Developmental Services                        | 2351 W. 26 <sup>th</sup> St  | Yuma     | Arizona | 85364 | 12                        |
| General Services                              | 2725 S. Ave B                | Yuma     | Arizona | 85364 | 12                        |
| Historical Court House                        | 168 S. 2 <sup>nd</sup> Ave   | Yuma     | Arizona | 85364 | 12                        |
| Juvenile Justice Center                       | 2440 W. 28 <sup>th</sup> St  | Yuma     | Arizona | 85364 | 12                        |
| Aztec High School                             | 2330 W. 28 <sup>th</sup> St  | Yuma     | Arizona | 85364 | 12                        |
| Emergency Management                          | 2681 S. 23 <sup>rd</sup> Ave | Yuma     | Arizona | 85364 | 12                        |
| Somerton Municipal Building                   | 350 E. Main St               | Somerton | Arizona | 85350 | 12                        |
| Public Works                                  | 43487 Hwy 80                 | Tacna    | Arizona | 85356 | 12                        |
| Public Fiduciary                              | 3007 S. Pacific Ave          | Yuma     | Arizona | 85364 | 12                        |
| County School Superintendent                  | 210 S. 1 <sup>st</sup> Ave   | Yuma     | Arizona | 85364 | 12                        |
| Sheriff's Administration Office               | 141 S. 3 <sup>rd</sup> Ave   | Yuma     | Arizona | 85364 | 12                        |
| Adult Detention Facility                      | 200 S. 2 <sup>nd</sup> Ave.  | Yuma     | Arizona | 85364 | 12                        |
| Adult Detention Annex                         | 140 S. 3 <sup>rd</sup> Ave.  | Yuma     | Arizona | 85364 | 12                        |
| Sheriff's Administration Annex                | 160 S. 3 <sup>rd</sup> Ave.  | Yuma     | Arizona | 85364 | 12                        |
| Adult Probation Building                      | 410 S. Maiden                | Yuma     | Arizona | 85364 | 12                        |
| Sheriff Warehouse/Auto                        | 2755 E. 14 <sup>th</sup> St. | Yuma     | Arizona | 86365 | 12                        |
| Public Fiduciary                              | 3007 S. Pacific Ave          | Yuma     | Arizona | 85364 | 12                        |
| Sheriff's Office                              | 3911 S. Pico Ave             | Yuma     | Arizona | 85365 | 12                        |
| Sheriff's Office                              | 13190 Frontage Rd            | Yuma     | Arizona | 85367 | 12                        |
| Sheriff's Office                              | 11478 N. Joe Young           | Yuma     | Arizona | 85365 | 12                        |
| Emergency Service Modular Building            | 2200 W. 28 <sup>th</sup> St  | Yuma     | Arizona | 85364 | 12                        |
|   |                              |          |         |       | 12                        |

**ATTACHMENT B: DIVERSE REDUNDANT FIBER BACKBONE DESIRED ANCHOR LOCATIONS**

| LOCATION  | ADDRESS or GPS COORDINATES  | CITY         | STATE   | ZIP   | LATERAL / BACKBONE FIBERS |
|---|---|--------------|---------|-------|---------------------------|
| Spaceport   | 32°29'15.39"N,<br>114°36'20.42"W                                      | Yuma         | Arizona | 85365 | TBD                       |
| Yuma Commerce Center                                  | Ave 7 E - Ave 8 E<br>32 <sup>nd</sup> Street                          | Yuma         | Arizona | 85365 | TBD                       |
| Magrino Industrial Park                               | 5237 S Vaughan St   | San Luis     | Arizona | 85349 | TBD                       |
| Southwest Industrial Park                             | County 24 <sup>th</sup> Street and<br>Ave E                           | San Luis     | Arizona | 85349 | TBD                       |
| Citrus Business Park                                  | 41 <sup>st</sup> Place and 3 E  | Yuma         | Arizona | 85365 | TBD                       |
| Future Industrial Development<br>Corridor - E 40th St | 32°39'19.32"N,<br>114°33'34.70"W                                      | City/County  | Arizona |       | TBD                       |
| Future Industrial Development<br>Corridor - S. Av. 4E | 32°40'32.24"N,<br>114°33'51.09"W                                      | City /County | Arizona |       | TBD                       |
| Potential Industrial Park                             | 32°38'39.72"N,<br>114°34'37.10"W                                      | City/County  | Arizona |       | TBD                       |
| Marine Industrial Park                                | Araby – 32 <sup>nd</sup> Street<br>To County 14 <sup>th</sup> and 6 E | Yuma         | Arizona | 85365 | TBD                       |
| City Hall   | 143 N State Ave   | Somerton,    | Arizona | 85350 | TBD                       |
| Public Safety Bldg.                                   | 445 E Main St   | Somerton,    | Arizona | 85350 | TBD                       |
| Municipal Court                                       | 350 W Main St   | Somerton,    | Arizona | 85350 | TBD                       |
| Community Center                                      | 801 W Main St   | Somerton,    | Arizona | 85350 | TBD                       |
| Parkview Commerce Center                              | 1298 W Main St  | Somerton,    | Arizona | 85350 | TBD                       |
| Joe Munoz Park  | 245 W Fern St   | Somerton,    | Arizona | 85350 | TBD                       |
| Council Park  | 801 N Council Ave   | Somerton,    | Arizona | 85350 | TBD                       |
| Sewer Treatment Plant                                 | 473 S Tumbaga Loop<br>-114.726, 32.591                                | Somerton,    | Arizona | 85350 | TBD                       |
| Senior Center   | 245 S Bingham Ave   | Somerton,    | Arizona | 85350 | TBD                       |
| Cultural & Youth Center                               | 239 W Canal St  | Somerton,    | Arizona | 85350 | TBD                       |
| Centennial Park                                       | 316 N Somerton Ave  | Somerton,    | Arizona | 85350 | TBD                       |
| Public Works Shops                                    | 348 N Somerton Ave  | Somerton,    | Arizona | 85350 | TBD                       |
| Traffic Signal #1                                     | Avenue D/US 95<br>-114.684, 32.597                                    | Somerton,    | Arizona | 85350 | TBD                       |
| Traffic Signal #2                                     | Main St/Bingham Ave<br>-114.704, 32.597                               | Somerton,    | Arizona | 85350 | TBD                       |
| Traffic Signal #3                                     | Main St/Somerton Ave<br>-114.710, 32.597                              | Somerton,    | Arizona | 85350 | TBD                       |
| Traffic Signal #3                                     | Main St/Cesar Chavez<br>-114.718, 32.597                              | Somerton,    | Arizona | 85350 | TBD                       |
| Traffic Signal #4                                     | Main St/Parkview Ave<br>-114.723, 32.597                              | Somerton,    | Arizona | 85350 | TBD                       |
| Somerton Library                                      | 240 W Canal St  | Somerton,    | Arizona | 85350 | TBD                       |
| San Luis Police Department                            | 1030 E UNION ST   | San Luis     | Arizona | 85349 | TBD                       |
| San Luis Fire Dept                                    | 1165 N McCain Ave   | San Luis     | Arizona | 85349 | TBD                       |
| San Luis PD Substation                                | 32.47898435850941, -<br>114.71247554272912                            | San Luis     | Arizona | 85349 | TBD                       |
| Public Works Yard                                     | 1311 N 4 <sup>th</sup> Ave  | San Luis     | Arizona | 85349 | TBD                       |



|                                   |                             |          |         |       |     |
|-----------------------------------|-----------------------------|----------|---------|-------|-----|
| San Luis Cultural Center          | 1015 N Main St              | San Luis | Arizona | 85349 | TBD |
| San Luis Municipal Court          | 767 N William Brooks Ave    | San Luis |         | 85349 | TBD |
| Fleet Services                    | 707 N William Brooks Ave    | San Luis |         |       | TBD |
| San Luis Senior Center            | 790 E Cesar Chavez Blvd     | San Luis | Arizona | 85349 | TBD |
| San Luis AWC                      | 1340 N 8 <sup>th</sup> Ave  | San Luis | Arizona | 85349 | TBD |
| San Luis High School              | 1250 N 8 <sup>th</sup> Ave  | San Luis | Arizona | 85349 | TBD |
| Ed Pastor                         | 985 N 6 <sup>th</sup> Ave   | San Luis | Arizona | 85349 | TBD |
| Cesar Chavez Elementary           | 1130 N 10 <sup>th</sup> Ave | San Luis | Arizona | 85349 | TBD |
| Desert View Elementary School     | 1508 N 10 <sup>th</sup> Ave | San Luis | Arizona | 85349 | TBD |
| San Luis Middle School            | 1135 N Main St              | San Luis | Arizona | 85349 | TBD |
| Meadow Craft Building             | 2801 N Main St              | San Luis | Arizona | 85349 | TBD |
| South Valley Center<br>(WAL-MART) | 1613 N Main St              | San Luis | Arizona | 85349 | TBD |
| Jackson Square                    | 1233 N Main St              | San Luis | Arizona | 85349 | TBD |
| San Luis Plaza                    | 580 N San Luis Plaza DR     | San Luis | Arizona | 85349 | TBD |
| Plaza Riedel                      | 1950 E Cesar Chavez<br>Blvd | San Luis | Arizona | 85349 | TBD |
| San Luis Library                  | 1075 N 6 <sup>TH</sup> Ave  | San Luis | Arizona | 85349 | TBD |
| San Luis Industrial Park          | 411 N Cesar Chavez St       | San Luis | Arizona | 85349 | TBD |
| San Luis Business Incubator       | 415 N Henry Chavez<br>CRT   | San Luis | Arizona | 85349 | TBD |
| Port of Entry I                   | 431 N MAIN ST               | San Luis | Arizona | 85349 | TBD |
| Port of Entry II                  | 1375 S AVE E                | San Luis | Arizona | 85349 | TBD |
| Magrino Industrial Park           | 4937 E Vaughan Street       | San Luis | Arizona | 85349 | TBD |
| San Luis Medical Mall             | 101 S Oak Ave               | San Luis | Arizona | 85349 | TBD |
| San Luis Detention Facility       | 406 N Ave D                 | San Luis | Arizona | 85349 | TBD |
| State Prison Complex              | 7125 E Cesar Chavez<br>Blvd | San Luis | Arizona | 85349 | TBD |
| Wellton Town Hall                 | 28634 Oakland Avenue        | Wellton  | Arizona | 85356 | TBD |
| Wellton Police Department         | 28618 Oakland Avenue        | Wellton  | Arizona | 85356 | TBD |
| Pete's Body Shop                  | 28589 Arizona Avenue        | Wellton  | Arizona | 85356 | TBD |
| Wellton Fire Department           | 29118 Los Angeles<br>Avenue | Wellton  | Arizona | 85356 | TBD |
| Wellton Real Estate Office        | 29134 Los Angeles<br>Avenue | Wellton  | Arizona | 85356 | TBD |
| Butterfield Pro Shop              | 10231 Dome Street           | Wellton  | Arizona | 85356 | TBD |
| Wellton Community Center          | 10234 Dome Street           | Wellton  | Arizona | 85356 | TBD |
| East County Complex               | Dome Street                 | Wellton  | Arizona | 85356 | TBD |
| Wellton Elementary School         | 29126 San Jose Avenue       | Wellton  | Arizona | 85356 | TBD |
| Wellton Water Plant               | 10815 Dome Street           | Wellton  | Arizona | 85356 | TBD |
| Coyote Wash Pro Shop              | 11902 William Street        | Wellton  | Arizona | 85356 | TBD |
| AWC Wellton Learning Center       | 28851 County 12th Street    | Wellton  | Arizona | 85356 | TBD |
| Ed Whitehead's Tire Country       | 29889 Los Angeles<br>Avenue | Wellton  | Arizona | 85356 | TBD |
| RDO Equipment Co                  | 30101 E Highway 80          | Wellton  | Arizona | 85356 | TBD |

|   |                            |         |         |       |     |
|---|----------------------------|---------|---------|-------|-----|
| Wellton-Mohawk Irrigation & Drainage District | 30570 Wellton-Mohawk Drive | Wellton | Arizona | 85356 | TBD |
| Wellton US Border Patrol Station              | 10888 S Avenue 31E         | Wellton | Arizona | 85356 | TBD |
| JBS Five Rivers Cattle Feeding                | 32.69222 N<br>114.04459 W  | Wellton | Arizona | 85356 | TBD |
| Antelope Union High School                    | 9168 S Avenue 36E          | Roll    | Arizona | 85347 | TBD |
| Mohawk Valley School                          | 5151 S Avenue 39E          | Roll    | Arizona | 85347 | TBD |
| Bingham Equipment                             | 4838 S Avenue 38E          | Wellton | Arizona | 85356 | TBD |
|   |                            |         |         |       |     |
|   |                            |         |         |       |     |

Agriculture and Rural Areas –

**NOTE:** Some areas may be duplicative of the locations listed above.

NOTES

|  |   |  |                |  |
|--|---|--|----------------|--|
| Fiber run between Roll and Mohawk Valley Farms                   | County 1 <sup>st</sup> St. and Ave 51E            |  | County         | Towers along the run can cover farmland to the farthest east fields at Ave 55 ½ E. Alternatively fiber can end at Roll and towers can be daisy-chained to the east.  |
| Fiber run between Tacna and Roll                                 | County 5 <sup>th</sup> St. and Ave 38E            |  | County         | Wellton already turned in Bingham Equipment and Mohawk Valley School, so this is covered.<br>Towers along the fiber run will be needed to provide wireless broadband across the farm fields.                         |
| Fiber run between Wellton and Tacna                              | Old US 80 and Ave 38E                             |  | Wellton/County | This can serve JBS Feedlot and other sites listed by Wellton.<br>Towers along the run can cover farmland to the north.   |
| Fiber run between Wellton and Dome Valley                        | Hwy 95 and County 3 <sup>rd</sup> St.             |  | County         | Towers along the run can cover farmland to the north.  |
| Fiber run along Hwy 95 from Dome Valley to City of Yuma          | Hwy 95 and Ave 3E                                 |  | County         | Rural facilities include Sakata Seeds (9140 S Ave 6 E).<br>Towers along the run can cover farmland to the north and south.   |
| Fiber run along Ave 7E from Hwy 95 to County 3 <sup>rd</sup> St. | Harrison Farms, 6445 E County 3rd St, Yuma        |  | County         | Towers along the run can cover farmland.<br>Other facilities: Laguna Mobile Home Park (7270 S Avenue 7 E), North Gila Valley Garbage Dump (7870 E County 5th St), Sugarloaf Mountain Bike Trail System, Mittry Lake. |
| Fiber run along Ave 7E from Hwy 95 to E. County 9 1/2            | Yuma Irrigation District, 9510 S Avenue 7 E, Yuma |  | County         | Smith Farms is near Yuma Irrigation District.  |
| Fiber run along Araby Rd. from Hwy 95 to 32 <sup>nd</sup> St.    | Araby Rd. and 32 <sup>nd</sup> St.                |  |                | Rural facilities include Holaday Seed, Booth Machinery, Tanimura & Antle (all near Araby Rd & 30 <sup>th</sup> St).  |

|   |  |  |  |  |
|---|--|--|--|--|
|   |  |  |  | Towers for wireless service to farm fields and residential. Can tie into Hwy 195 fiber route to the south.   |
| Fiber run along 32 <sup>nd</sup> St. from Foothills Blvd to Ave G             |  |  |  | Rural facilities include Amigo Farms (4245 E 32nd St), Datepac (6685 W County 11th St), Keithly-Williams Transplants (6885 W County 11th St), Lee Farms.<br>Towers for wireless service to farm fields and residential.  |
| Fiber run along Ave 5E from 32 <sup>nd</sup> St. to County 15th               |  |  |  | Facilities include Almark Foods (4420 E 36th St), Arizona Marketplace (3351 S Avenue 4 E), Humane Society of Yuma (4050 S Avenue 4 1/2 E).<br>Towers for wireless service to farm fields and residential.  |
| Fiber run along Ave 3E from 32 <sup>nd</sup> St. to County 16th               |  |  |  | Facilities include Greengate Fresh Salad Plant (32 <sup>nd</sup> St. & Ave 3 1/2 E), Dole Fresh Vegetables (3725 S Avenue 3 1/2 E), MCAS Yuma, Select Seed, Sunset Nursery.<br>Towers for wireless service to farm fields.   |
| Fiber run along County 16th from Ave 3E to Hwy 95 at Ave. C                   |  |  |  | Rural facilities include Yuma Mesa Irrigation District (4 <sup>th</sup> Ave & County 14 1/2), Unit B Irrigation District and Rural Metro Fire Station (Ave A & County 16), UofArizona Mesa Ag Center (Ave A & County 14), Condor Seed (Ave A 1/2 & County 16), Cocopah Casino (Ave B & County 15).<br>Towers for wireless service to farm fields and residential. From there, follow Hwy 95 through Gadsden and to City of San Luis. |
| Fiber run along County 8 <sup>th</sup> St. from City of Yuma to Somerton Ave. |  |  |  | Rural facilities include University of Arizona Yuma Ag Center, U.S. Bureau of Reclamation and APS Yucca Power Plant (County 8 & Somerton Ave), Keithly-Williams Seed Co. (County 8 1/2 & Ave E).<br>Towers can provide wireless service to farm fields to the north and south.   |
| Fiber run along Somerton Ave. from County 8 <sup>th</sup> St. to County 15th  |  |  |  | Towers for wireless service to farm fields.  |
| Fiber run along Ave. D from County 8 <sup>th</sup> St. to Hwy 95              |  |  |  | Foothills Packing (Ave. D & Hwy 95), Four Little Devils Farms (12498 S Avenue D), American Takii Seed Co. (11492 S Avenue D), Research Designed for Ag (11479 S Avenue D).<br>Towers for wireless service to farm fields.  |
| Fiber run along Ave. C from County 8 <sup>th</sup> St. to County 15th         |  |  |  | Yuma County Water Users Association (Ave C & County 15), various residential developments.<br>Towers for wireless service to farm fields.  |

|   |  |  |  |   |
|---|--|--|--|---|
| Fiber run along Ave. G from County 11 <sup>th</sup> St. to Hwy 95               |  |  |  | Towers for wireless service to farm fields. |
| Fiber run along County 14 from Ave. G to Cocopah Reservation                    |  |  |  | Towers for wireless service to farm fields. |
| Fiber run along Somerton Ave. from Hwy 95 to County 19th                        |  |  |  | Towers for wireless service to farm fields. |
| Fiber run along Ave. G from Hwy 95 to County 19th                               |  |  |  | Towers for wireless service to farm fields. |
| Fiber run along Ave. I from Hwy 95 (at County 18 <sup>th</sup> ) to County 19th |  |  |  | Towers for wireless service to farm fields. |
| Fiber run along County 19 <sup>th</sup> from Somerton Ave. to Hwy 95 at Gadsden |  |  |  | Towers for wireless service to farm fields. |

## **ATTACHMENT C: FIBER CONSTRUCTION SPECIFICATIONS**

The following are general terms that apply to the construction of fiber for the project. Vendor should indicate how they intend to comply with or amend these specifications.

### **Meet-me Hole and Mid-Span Interconnection Splicing**

It is possible that Yuma County may want to interconnect with the existing or newly planned carrier facilities at meet-me manholes or mid-span splice locations. Vendors should detail policies and guidelines that document meet-me manhole and mid-span interconnection procedures along with detailed costs for these activities.

### **Dark Fiber Performance**

Yuma County prefers newly built fiber that contains a homogenous fiber type throughout the entire build.

### **Dark Fiber Maintenance**

Operations and Maintenance Practices: Yuma County will require on-going maintenance and operation of Indefeasible rights of use (IRU) or owned fiber during the term of the contract. When pricing maintenance and operations as part of the monthly recurring costs, the Vendor should include an overview of fiber maintenance practices including:

- Routine maintenance and inspection
- Scheduled maintenance windows and scheduling practices for planned outages
- Fiber monitoring including information on what fiber management software is used, what fiber monitoring system is used, and who performs the monitoring
- Handling of unscheduled outages and customer problem reports
- What service level agreement is included, and what alternative service levels may be available at additional cost
- What agreements are in place with applicable utilities and utility contractors for emergency restoration
- Repair of fiber breaks
- Replacement of damaged fiber
- Replacement of fiber which no longer meets specifications
- Policies for customer notification regarding maintenance
- Process for changing procedures, including customer notification practices
- Property restoration

## **NEW BUILD FIBER STATEMENT OF WORK**

The Work is defined as:

### **Project Management**

- Selected vendor and its subcontractors will provide all project management to accomplish the installation of all project work.
- Provide engineer(s), certified on selected fiber system specifications and procedures to manage all phases of project as outlined in this proposal. This includes ordering and managing the bill of materials as outlined below, directing and managing cable placement and restoration, directing and managing splicing crews and providing detailed documentation at the end of the project.

- Selected vendor and its subcontractors will develop a project management plan, which will include a milestone chart. The milestone chart will outline any critical path events and then track these with the appropriate agency/organization/entity.

#### Material Management

- Selected vendor and its subcontractors will provide all material management to ensure that the project remains on track according to the project milestones.
- Selected vendor and its subcontractors will develop in conjunction with selected contractor plants and other suppliers a material management plan.

#### Property Restoration

- All cable routes, which are plowed, will be restored to as near to original condition as possible.

#### Install overhead and underground fiber optic cable.

- Bore approximately (Approximate Number) feet of fiber optic cable through inner duct/conduit/handhole system
- Plow approximately (Approximate Number) feet of fiber optic cable in accordance with selected Vendor installation specifications.
- Install approximately (Approximate Number) feet of aerial fiber optic cable in accordance with selected Vendor installation specifications.
- Install hand-holes and place marker/locator posts.
- Vendor will provide specific details of cable placement using aerial photography and CAD drawings.

#### Install and Splice Hardware

- Prep closures, cables, fibers and splice fibers at all field locations
- Fiber to fiber fusion splicing of optical fibers at each point
- Individual splice loss will be  $\leq 0.5$  dB for single-mode unless, after 3 attempts, these values cannot be achieved, then the fibers will be re-spliced until a splice loss within 0.05 dB of the lowest previous attempts is achieved. Splice loss acceptance testing will be based on the fusion splicer's splice loss estimator.

#### Final Testing

- In addition to splice loss testing, selected Vendor will perform end-to-end insertion loss testing of single-mode fibers at 1310 nm and 1550 nm from one direction for each terminated fiber span in accordance with TIA/EIA-526-7 (OFSTP 7). For spans greater than 300 feet, each tested span must test to a value less than or equal to the value determined by calculating a link loss budget.
- Inspect each terminated single-mode fiber span for continuity and anomalies with an Optical Time Domain Reflectometer (OTDR) at 1550 nm from one direction in accordance with OTDR operating manual.

#### Documentation

- Provide final documentation consisting of:
  - Route "As-Built" Maps/Diagrams
  - End-to-End Insertion Loss Data
  - OTDR Traces
  - Individual Splice Loss Data

### General Scope of Work (Description for all routes)

- Placing of associated hand-holes, marker posts, locator posts, inner duct, and miscellaneous materials.
- Splicing of fiber optic cables as specified.
- Procuring and Provisioning of hand holes and miscellaneous materials required to accomplish the above.

### Bid Specifications

- All splicing shall be by the fusion method.
- All splicing enclosures and Hand-Holes shall be of a type to be determined by the owner.
- All Hand-Holes shall be DOT approved, 45,000 lb. load rated CDR or comparable enclosures.
- All plowed cables shall be placed at a depth of 36" along roadways and 24" on private property.
- All road and driveway bores shall be at a depth of 36" and will have at least a 2" inner duct placed within.
- All buried splice locations will be marked with a locator post and a copper ground wire shall be attached to the splice closure/cable sheath.
- Buried marker posts shall be placed at least every 1500' or per State/local requirements.
- Warning tape shall be placed 12" above the buried cable.
- All highway shoulders, schoolyards, and ditch lines will be compacted and restored to satisfactory condition.
- All Arizona Department of Transportation (ADOT) encroachment permits, railroad encroachment permits, and United States (US) agency permits shall be submitted by selected vendor in accordance with the permitting agency requirements.
- The vendor shall be responsible for the payment of any permitting fees and shall be the owner of said facilities.
- Vendor shall furnish an as-built drawing to the owner of connected facilities.
- Vendor shall perform an end-to-end continuity and loss test on each spliced fiber segment and provide the owner with the decibel db loss of each fiber segment.
- Vendor shall be responsible for submitting the appropriate Diggers Hotline locate requests.
- The County shall grant Vendor right of way permission for county-owned properties and roadways.
- All cables to buildings shall be fusion spliced within a minimum of 100' of entering a building at a location to be determined by the owner with an existing single mode fiber and terminated at customers' rack.
- A minimum of 100' coil of cable shall be left in each Hand Hole/Building for splicing use.

### Right-of-Way Acquisition & Permitting

- Vendor is responsible to ensure that all cable routes have approved access and rights-of-way for all proposed cables installations.
- Vendor will provide any information or points of contact to allow selected Vendor and its subcontractors to facilitate the route prep "Make-ready" and actual cable installation.

- Vendor is responsible for pulling all required construction permits. Selected Vendor and its subcontractors will provide selected vendor with any information necessary to pull these permits in a timely fashion.

#### Route Maps

- Selected vendor is responsible for providing maps, drawings or aerial photographs of the route.

#### Final Inspection

- The County will provide at their discretion a person(s) to witness any final testing or construction verification. The person designated by the County will be required to initial/provide acceptance of any results. This person(s) will represent the County during any and all acceptance testing. This does not relieve the selected Vendor from providing agreed upon documentation or absolve the selected Vendor of any warranty support.