



LEGAL NOTICE

REQUEST FOR QUALIFICATIONS

RFQ 24-177

For

**CONSULTANT SERVICES –
ST. CHARLES COUNTY FIBER INTERCONNECT EXPANSION**

CMAQ-7302(714)

**ST. CHARLES COUNTY GOVERNMENT
ST. CHARLES, MISSOURI**

St. Charles County is seeking Statement of Qualifications from Professional Service Firms to provide **Consultant Services for St. Charles County Fiber Interconnect Expansion** for the County. The County reserves the right to terminate the contract for reasons of violations by the successful proposer of any term or condition of the contract by giving thirty (30) days written notice stating the reasons therefore and giving the party ample time to remedy the deficiencies.

INSTRUCTIONS

One [1] signed original, one [1] signed copy, and one [1] digitized copy of the Statement of Qualifications must be received in a sealed envelope plainly marked “**24-177 Consultant Services - CMAQ-7302(714) ST. CHARLES COUNTY FIBER INTERCONNECT EXPANSION**” with the due date and time in the lower left corner of the envelope.

An authorized representative of the company/person submitting the statement of qualification must sign it in **blue** ink.

Statements of Qualifications must be submitted to the St. Charles County Finance Department, 201 North Second Street, Room 541, St. Charles, MO 63301 prior to **1/9/2025 at 2:00 PM**.

St. Charles County reserves the right to accept and/or reject any and all proposals.

INQUIRIES

Any questions or clarifications concerning this RFQ must be submitted in writing to:

Donna Clayton
St. Charles County Government
Finance Department
201 North Second St
St. Charles, Missouri 63301
dclayton@sccmo.org

For questions or inquiries concerning the specifications please contact:

Jacob Becher, Project Manager
St. Charles County Government
Roads and Traffic Department
201 North Second St
St. Charles, Missouri 63301
Fax: (636)949-7302
jbecher@sccmo.org

- The RFQ number and title shall be referenced on all correspondence.
- All questions must be received no later than **5:00 PM** on **12/31/2024**.
- Any question received after this deadline may not be answered.

Prohibited Communication

Contact with any representative, other than through the procedure outlined in the section titled “Inquiries”, concerning this request is prohibited PRIOR TO PROPOSAL DUE DATE. Representative shall include, but not be limited to, all elected and appointed officials, and employees of St. Charles County and their Agents within St. Charles County. Any Offeror engaging in such prohibited communications prior to proposal due date may be disqualified at the sole discretion of St. Charles County.

RFQ 24-177
CONSULTANT SERVICES – ST. CHARLES COUNTY FIBER INTERCONNECT EXPANSION
CMAQ 7302 (714)

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TERMS AND CONDITIONS

- St. Charles County reserves the right to reject any and all Qualifications.
- No additions, deletions, corrections, or adjustments will be accepted after submissions are opened.
- The electronic version of this RFQ is available upon request. The document was entered into WORD for Microsoft Windows. The Purchasing Office does not guarantee the completeness and accuracy of any information provided on the electronic version. Therefore, respondents are cautioned that the hard copy of this RFQ on file in the Purchasing Office governs in the event of a discrepancy between the information contained in or on the electronic version and that which is on the hard copy.
- An authorized officer of the company submitting the response must sign all copies, in blue ink.
- Vendors must submit three [3] signed copies of their statement of qualifications; one is to be an original and so marked, one copy, and one a digitized copy [PDF].
- Prices for services should not be included in submitted responses.
- St. Charles County will not award any proposal to an individual or business having any outstanding amounts due from a prior Contract or business relationship with the County or who owes any amount(s) for delinquent Federal, State or Local taxes, fees, and licenses.
- Sealed submissions received after the designated time of the receipt of the sealed statements will not be opened.
- The successful firm is specifically denied the right of using in any form or medium the names of St. Charles County or any other public agency of St. Charles County Government for public advertising unless express written permission is granted.
- All firms must possess the necessary and appropriate business and/or professional licenses in their field.
- Award will be made to the firm best qualified and capable of performing the desired work, subject to successful contract negotiations.

➤ INSURANCE:

The successful bidder must agree to provide and maintain during the life of the Contract the insurance(s) listed below, in the minimum amounts specified, with an insurance company licensed to do business in the State of Missouri. All policies must name the County as an additional insured and provide for thirty (30) days written notice prior to any material changes or cancellation. Successful bidder will be awarded contract once a Certificate of Insurance is provided.

- a. **Worker's Compensation and Employer's Liability:** Statutory WC limits as required by the Statutes of the State of Missouri, (or a qualified self-insurer) and Employers Liability in an amount of no less than \$1.0 million.
- b. **Automobile, General Liability and Property Damage:** The Contractor shall maintain the following minimum amounts of automobile, general liability, and property damage insurance coverage during the life of the contract:

\$1,000,000 for bodily injury or death to any one person and \$3,000,000 per occurrence for automobile and general liability coverage; and property damage coverage of at least \$1,000,000. A Combined Single Limit Policy in the amount of \$3,000,000 is an acceptable alternative. Automobile coverage must include non-owned vehicles.

- c. **Additional Requirements:** The Automobile & General Liabilities policies shall be endorsed to include the County as an additional insured including the following language: "Nothing in this endorsement shall serve to operate as a waiver of the County's Sovereign Immunity or broaden the liability of the County beyond the provisions of Sections 537.600 to 537.610 of the Revised Statutes of Missouri". Contractor shall provide 30 days advance written notice of any material change. A Waiver of Subrogation in favor of the County shall be endorsed on each of the policies. The required insurance shall be primary insurance with respect to any other insurance or self-insurance programs maintained by the County. A Certificate of Insurance evidencing the above coverage(s) together with a copy of the required endorsements shall be provided to the County prior to the commencement of any work. It shall be the Contractor's responsibility to keep the respective insurance policies and coverages current and in force for the life of the contract.
- d. **Subcontractor's Coverage:** It shall be the Contractor's responsibility to ensure that all subcontractor's maintain the same coverages and limits as

Certification

The Firm understands and agrees that by signing the statement of Qualification document, the Firm certifies the following:

The Firm shall only utilize licensed professional personnel who have had their qualifications submitted as part of the Firm's Qualifications document (or subsequent updates). All personnel utilized must be authorized to work in the United States in accordance with applicable federal and state laws. This includes but is not limited to the Illegal Immigration Reform and Immigrant Responsibility Act (IIRIRA) and INA Section 274A.

If the Firm is found to be in violation of this requirement or applicable federal, state and /or local laws and/or regulations, and if the County of St. Charles has reasonable cause to believe that the Firm has knowingly employed individuals who are not eligible to work in the United States, the County shall have the right to cancel the contract immediately without penalty or recourse and suspend or debar the Firm from doing business with the County.

The Firm agrees to fully cooperate with any audit from federal, state, or local auditor or investigation by federal, state, or local law enforcement agencies.

Suspension and Debarment (Executive Orders 12549 and 12689, 2 C.F.R. pt 180)

- (1) A contract award (see 2 C.F.R. 180.220) must not be made to parties listed on the government-wide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 C.F.R. 180 that implement Executive Orders 12549 (3 C.F.R. PT. 1986 Comp., p. 189) and 12689 (3 C.F.R. pt. 1989 Comp., p. 235),

“Debarment and Suspension.” SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.

- (2) The contractor is required to verify that none of the contractor’s principals (defined at 2 C.F.R. 180.995) or its affiliates (defined at 2 C.F.R. pt. 180.905) are excluded (defined at 2 C.F.R. 180.940) or disqualified (defined at 2 C.F.R. 180.935).
- (3) The contractor must comply with 2 C.F.R. pt. 180, subpart C and the regulation of the granting Federal Agency regarding suspension and debarment, and must include a requirement to comply with the regulations in any lower tier covered transaction it enters into.
- (4) This certification is a material representation of fact relied upon by the Owner. If it is later determined that the Contractor did not comply with 2 C.F.R pt. 180, subpart C in addition to remedies available to the Owner, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment.
- (5) By submitting a bid, the bidder or proposer agrees to comply with the requirements of 2 C.F.R. pt. 180, subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier transactions.

Employment of Unauthorized Aliens Prohibited (*Missouri Revised Statutes Section 285.530*)

As a condition for the award of any contract or grant in excess of five thousand dollars by St. Charles County to a business entity (Firm), the business entity shall, by sworn affidavit and provision of documentation**, affirm its enrollment and participation in a federal work authorization program (**E-Verify**) with respect to the employees working in connection with the contracted services. Every such business entity shall sign an affidavit affirming that it does not knowingly employ any person who is an unauthorized alien in connection with the contracted services. [RSMO 285.530 (2)]

An employer may enroll and participate in a federal work authorization program (**E-Verify**) and shall verify the employment eligibility of every employee in the employer’s hire whose employment commences after the employer enrolls in a federal work authorization program. The employer shall retain a copy of the dated verification report received from the federal government. Any business entity that participates in such program shall have an affirmative defense that such business entity has not violated subsection 1 of this section. [RSMO 285.530 (4)]

Any entity contracting with St. Charles County shall only be required to provide the referenced affidavit on an annual basis. A copy of the affidavit is included in this Qualification request. Firms may choose to send the required documentation using one of the following options:

- Send the notarized affidavit and E-Verify MOU signature page to: St. Charles County, Attn: Purchasing Manager, 201 N Second Street, Room 541, St. Charles, MO 63301 prior to responding to any solicitations; **OR**
- Send the notarized affidavit and E-Verify MOU signature page along with a Qualification solicitation response.

These documents will be kept on file. The notarized affidavit and E-Verify MOU signature page will remain current for **one year** from the date of the notarized affidavit.

**** PLEASE NOTE:**

Acceptable enrollment and participation documentation consists of a valid copy of the signature page of the E-Verify Memorandum of Understanding, completed and signed by the Firm, and the Department of Homeland Security - Verification Division

The online address to enroll in the E-verify program is:

| |
|---|
| https://e-verify.uscis.gov/enroll/StartPage.aspx?JS=YES |
|---|

Veteran Friendly Employment Policy

"Indicate whether you have developed a veteran friendly employment policy and, if so, attach a copy of such policy to your response as a point of information."

_____ "YES" our company has a veteran friendly employment policy.

_____ "NO" our company does not have a veteran friendly employment policy.

Please include a copy of your veteran friendly employment policy with your submission.

Open Records

Any and all information contained in or submitted with the proposal becomes a public record subject to the Missouri Sunshine Law when a contract is executed, or all proposals are rejected. If Proposer believes that any information contained in or submitted with the proposal is protected by the Missouri Sunshine Law, Proposer must clearly identify what information Proposer believes is so protected and must also clearly identify the legal basis therefor.

RFQ 24-177
CONSULTANT SERVICES – ST. CHARLES COUNTY FIBER INTERCONNECT EXPANSION
CMAQ 7302 (714)

St. Charles County (referred to hereafter as County) seeks a qualified consultant to assist the County in the system operations, maintenances, and management of the Gateway Green Light Program in St. Charles County.

Qualifications are due on **Thursday, 1/9/2025 at 2:00 p.m.** local time to the following address:

Kurt Mandernach
Purchasing Manager
St. Charles County Government
201 North Second St, Room 541
St. Charles, MO 63301

Late proposals will be returned unopened. One [1] signed original, one [1] signed copies, and one [1] digitized copy of the proposal must be received in a sealed envelope. **Faxed or emailed proposals will not be accepted.**

Section I: Scope of Work

St. Charles County is seeking assistance of a consultant for design, project management, and construction engineering and inspection for implementation of fiber optic cable, network communication expansion, network device replacements and upgrades, installation of Pan-Tilt-Zoom (PTZ) Surveillance Cameras, and Smart Weather Sensors.

The consultant will be responsible for all aspects of work needed to complete the project requirements as outlined in the County's CMAQ application, which include but are not limited to the following and Tasks 1-3 outlined in **Exhibit A**:

- Design, project management, estimate and bid procurement, and construction engineering and inspection.
- Quality assurance, quality check of construction.
- Documentation and submittals as required by MoDOT's LPA local road program.

The consultant will also be responsible for project documentation and submittals associated with a federal aid project including but not limited to field logs and diaries, reimbursement requests, change orders, and other submittals as required by MoDOT's LPA local road program.

Section II: Qualifications for the Project

1. Letter of Interest. The responding firm must provide a letter of interest (2-3 pages maximum) that summarizes the firm's approach to the project and why the firm is particularly qualified to complete the work for this project. The letter must include name, phone number, and email address of the person whom the County should contact in the event questions arise regarding the firm's submission.
2. Qualifications. Responses must indicate the qualifications of the responding firm and its subcontractors on similar fiber and Intelligent Transportation Systems projects. The response should include the following:
 - a. Experience summaries of key personnel to be assigned to the project.
 - b. A team organization chart.
 - c. References
3. Project Approach
4. Staffing Plan
5. Schedule
6. Subcontractors List
7. Disadvantage Business Enterprise (DBE) List (**DBE Goal 10%**). **DBE firms must be listed in the MRCC DBE Directory located on MoDOT's website at www.modot.gov, in order to be counted as participation towards an established DBE Goal.**
8. Statement of Qualification (RSMo 8.285 through 8.291)

9. Affidavit of Compliance with the Federal Work Authorization Program
10. E-Verify Memorandum of Understanding (15 CSR 60-15.020)

Section III: Evaluation Criteria

The qualifications submitted by each consultant or consultant team will be evaluated according to the following criteria, in order of priority and points as assigned:

1. *Experience, qualifications, and technical competence* of the consultant relative to comparable projects within the last five (5) years. This section of the consultant's proposal should outline its experience and that of its subcontractors, project manager, and assigned individuals on similar fiber design, ITS projects, and the Gateway Green Light Program. A total of 25 points is available. This section of the consultant's proposal should be limited to 10 pages.
 - a. Experience of the consultant and subcontractor(s)
 - b. Experience of the project manager
 - c. Experience of other assigned individuals
 - d. Related project experience
2. *Project Approach.* This plan should provide a description of the consultant's approach to deliver the desired services. This section should outline the various task and deliverables. A total of 35 points is available. This section of the consultant's proposal should be limited to 10 pages.
 - a. Understanding of the scope of work
 - b. Understanding of technical requirements and options
 - c. Description of the consultant's approach to provide the services requested herein
 - d. Value added services, description of additional services offered by the consultant not included in the scope of work but considered important to support ongoing operations of the Gateway Green Light Program.
3. *Staffing Plan.* This section should provide the consultant's plan and staffing requirements to provide the services outlined in its Project Approach. This section should describe the consultant's methodology of staff assignments to ensure the education, training, and experience of the assigned individual is appropriate match for the task or duty. A total of 20 points is available. This section of the consultant's proposal should be limited to 5 pages.
 - a. Name project manager and other assigned individuals
 - b. List duties of project manager and other assigned individuals

4. *Schedule.* This section should provide the consultant's schedule including project milestones and deliverables. A total of 20 points is available (design and procurement documents completed under 9 months = 20 points, <12 months 15 points, <15 months = 10 points, more than 15 months = 0 points). This section of the consultant's proposal should be limited to 2 pages.

Section IV: Selection Procedures

A consultant will be selected by St. Charles County and its project partners, which include MoDOT and local public agencies, after analysis of all information provided in the proposals. Respondents should be available for interviews prior to the selection of a consultant. The respondent, if interviewed, shall have its project manager and any other key individuals at the interview. The County may elect not to conduct interviews and reserves the right to negotiate a contract, including the scope of work and contract price, with any respondent.

This request does not commit the County to award a contract, to pay any costs incurred in preparation of a response to this invitation, or to procure or contract for services or supplies. The County reserves the right to accept or reject any or all responses received as a result of this request, or to cancel this request in part or in its entirety if it is in the best interest of the County to do so. Respondents shall not offer any gratuities, favors or anything of monetary value to any officer, employee, agent, or director of the County or its project partners for the purpose of influencing favorable disposition toward either their proposal or any other proposal submitted as a result of the Request for Proposals.

The County reserves the right to suggest to any or all respondents to this RFQ that such respondents form into teams or organizations deemed to be advantageous to the County in performing the scope of work. The County will suggest the formation of such teams when such relationships appear to offer combinations of expertise or abilities not otherwise available.

Respondents have the right to refuse to enter into any suggested relationship.

All proposals submitted hereunder become the exclusive property of the County.

Exception Sheet

If the item(s) and/or services proposed in the response to this Request for Qualifications is in any way different from that contained in this Request for Qualifications, the Firm is responsible to clearly identify all such differences in the space provided below. Otherwise, it will be assumed that the Firm's offer is in total compliance with all aspects of the proposal or Qualification.

Below are the exceptions or differences to the stated specifications (attach additional sheets as needed):

Date: _____

Signature: _____

Title: _____

Company: _____

THIS FORM MUST BE COMPLETED AND ENCLOSED WITH THE QUALIFICATION

Audit Clause for Contracts

Examination of Records

The Firm's records must include, but not be limited to, accounting records (hard copy, as well as computer readable data), written policies and procedures, sub-consultant files, indirect cost records, overhead allocation records, correspondence, instructions, drawings, receipts, vouchers, memoranda, and any other data relating to this contract shall be open to inspection and subject to audit and/or reproduction by the County Auditor, or a duly authorized representative from the County, at the County's expense. The Firm must preserve all such records for a period of three years, unless permission to destroy them is granted by the County, or for such longer period as may be required by law, after the final payment. Since the Firm is not subject to the Missouri Sunshine Law (Chapter 610, RSMo), information regarding the Firm's operations, obtained during audits, will be kept confidential.

The Firm will require all sub-consultants under this contract to comply with the provisions of this article by including the requirements listed above in written contracts with the sub-consultants.

Firm Information

Company Name: _____

Business Address: _____

Business Hours: _____

Phone: _____ Fax: _____

Email address: _____

Contact Person: _____

Authorized Signature: _____

(Indicates acceptance of all Qualification terms and conditions)

Date: _____

AFFIDAVIT OF WORK AUTHORIZATION

The Firm who meets the section 285.525, RSMo definition of a business entity must complete and return the following Affidavit of Work Authorization.

Comes now _____ (Name of Business Entity Authorized Representative) as
_____(Position/Title) first being duly sworn on my oath, affirm
_____(Business Entity Name) is enrolled
and will continue to participate in the E-Verify federal work authorization program with respect to
employees hired after enrollment in the program who are proposed to work in connection with the
services related to contract(s) with the County for the duration of the contract(s), if awarded in
accordance with subsection 2 of section 285.530, RSMo. I also affirm that _____
_____(Business Entity Name) does not and will not knowingly employ a
person who is an unauthorized alien in connection with the contracted services provided to the
contract(s) for the duration of the contract(s), if awarded.

In Affirmation thereof, the facts stated above are true and correct. (The undersigned understands
that false statements made in this filing are subject to the penalties provided under section 575.040,
RSMo.)

Authorized Representative's Signature

Printed Name

Title

Date

E-Mail Address

Subscribed and sworn to before me this _____ of _____. I am
(DAY) (MONTH, YEAR)

commissioned as a notary public within the County of _____, State of
(NAME OF COUNTY)

_____, and my commission expires on _____.
(NAME OF STATE) (DATE)

Signature of Notary

Date

THIS FORM MUST BE COMPLETED AND ENCLOSED WITH THE BID

Anti-Discrimination Against Israel Act Certification

1. Pursuant to Section 34.600 of the Revised Statutes of Missouri, St. Charles County shall not enter into a contract to acquire or dispose of services, supplies, information technology, or construction unless the contract includes a written certification that the company is not currently engaged in and shall not, for the duration of the contract, engage in a boycott of goods or services from the State of Israel; companies doing business in or with Israel or authorized by, licensed by, or organized under the laws of the State of Israel; or persons or entities doing business in the State of Israel.
2. **This requirement shall not apply to contracts with a total potential value of less than one hundred thousand dollars or to contractors with fewer than ten employees.**
3. Vendor affirms they have reviewed the requirements and definitions contained in RSMo. § 34.600.

Vendor hereby certifies they have complied with the terms of RSMo § 34.600, as applicable to this agreement, and will comply for the duration of the contract period.

Vendor

Date

**ST. CHARLES COUNTY
DOMESTIC PRODUCTS PROCUREMENT ACT (BUY AMERICAN)**

The Missouri Domestic Products Procurement Act (34.350-34.359 RSMo) requires that for all bids with a value of \$25,000 or more, the goods or commodities purchased by any public agency (which definition includes all political subdivisions of the State, including counties) or used or supplied in the construction, alteration, repair, or maintenance of any public works must be **manufactured or produced** in the United States. As defined in 34.350 RSMo, United States means the United States of America, the District of Columbia, and all territories and possessions subject to the jurisdiction of the United States. The law also requires that the bidder must provide proof of compliance. **Note: In general, if an import tariff is applied to an item, it does not qualify for the Buy American preference. In addition, Most Favored Nation status does not allow application of the preference.**

Section A – All Products Are Manufactured or Produced in U.S.

If all products bid qualify as domestic products under Missouri law, complete only Section A.

| |
|--|
| I hereby certify that all products qualify as domestic, that the information provided is true and correct, and complies with all provisions of Sections 34.350-34.359 RSMo. I understand that any misrepresentation herein constitutes the commission of a class A misdemeanor pursuant to Section 34.355 of the Revised Statutes of Missouri. |
| SIGNATURE |
| COMPANY NAME |

If Section A is completed, do not complete Section B.

Section B – Only One Product Line or No Products Are Manufactured or Produced in U.S.

If only one product line or no products are manufactured or produced in the U.S. complete only section B.

| |
|--|
| I hereby certify that there is only one product line, or no product manufactured or produced in the U.S., that the information provided is true and correct, and complies with all provisions of Sections 34.350-34.359 RSMo. I understand that any misrepresentation herein constitutes the commission of a class A misdemeanor pursuant to Section 34.355 of the Revised Statutes of Missouri. |
| SIGNATURE |
| COMPANY NAME |

Section C – Products May Qualify Because of Qualifying Treaty

If some or all products bid qualify for domestic status because of a trade treaty, etc., then the bidder must identify each product, country, and qualifying treaty, etc. below. The bidder must list ALL products which are or may qualify as domestic below. If more space is needed, please copy this form, and submit as an attachment.

| BID ITEM NUMBER(S) | COUNTRY WHERE MANUFACTURED OR PRODUCED | QUALIFYING TREATY, LAW, AGREEMENT, OR REGULATION |
|--------------------|--|--|
| | | |
| | | |
| | | |

SECTION C

| |
|--|
| I hereby certify that the specific items listed above are domestic, that the information provided is true and correct, and complies with all provisions of Sections 34.350-34.359 RSMo. I understand that any misrepresentation herein constitutes the commission of a class A misdemeanor pursuant to Section 34.355 of the Revised Statutes of Missouri. |
| SIGNATURE |
| COMPANY NAME |

Exhibit A

Task 1

Procure and install various ITS and network equipment items (PTZ cameras and road condition sensors) on the fiber optic network backbone along major arterials around St. Charles County.

Task 2

Complete the installation of approximately 50,000 LF of in-ground fiber optic (FO) backbone communication lines within the County. Segments to be installed are as follows:

| | |
|--------------------------|--|
| Henke Rd | Lake St Louis Blvd signal |
| Pitman Rd to Sonderen St | Sonderen St at Sonderen Loop signal |
| Veterans Memorial Pkwy | VMP at Sonderen St signal |
| Gutermuth Rd | Future signal and O'Fallon at Gutermuth Signal |
| O'Fallon Rd | O'Fallon at Gutermuth, O'Fallon Rd Ped X-ing, O'Fallon at Monticello Plz, Route K |
| Knaust Rd | Knaust Rd at Laura Hill Rd signal + Knaust at Birdie Hills signal |
| Birdie Hills Rd | Birdie Hills Rd at Ohmes Rd signal |
| Harvester Rd | Harvester Rd at McClay Rd signal |
| Hackmann Rd | Hackmann Rd at McClay Rd signal, Hackmann Rd at Diekamp Farm Trl signal, Hackmann at Lost Meadow |
| Upper Bottom Rd | Upper Bottom Rd at Old Upper Bottom Rd signal |
| Pralle Ln | Pralle Ln at Kunze Dr signal |
| Jungs Station Rd | Jungs Station at Plum Creek Dr signal, Jungs Station |
| Sommers Rd | Sommers Rd at Paul Renaud Blvd signal |

The FO links that are proposed to be built as part of the St. Charles County Fiber Interconnect Expansion project will complete the project network infrastructure architecture as defined in the GGL Feasibility Study project and provide critical links that need to be constructed for redundant communication rings for network resiliency. These proposed links will expand links to new sites, as well as enable the countywide ITS communication system to self-heal and reroute communication links, reducing the possibility of area wide communications failure due to cable cuts or power outages.

These new fiber links will also allow for the installation of additional PTZ and weather monitoring locations along with the interconnection to traffic signals, enhancing and improving the County's network capabilities and reducing the dependence on cellular technologies for communication to these locations.

Task 3

Procure and install communication network upgrades. As the Gateway Green Light fiber optic infrastructure and network of devices continues to expand and grow, additional core network bandwidth and capacity are required to maintain acceptable operations. Critically located Fast Ethernet Layer 2/3 routers will be upgraded and replaced 1-Gigabit ethernet routers to improve data throughput and transmission speeds.