

MISSOURI  
HIGHWAYS and TRANSPORTATION  
COMMISSION  
JEFFERSON CITY, MISSOURI

# REQUEST FOR BID

BID OF

Vendor Number \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

Phone Number \_\_\_\_\_

E-mail \_\_\_\_\_

FOR  
CONSTRUCTING OR IMPROVING  
**Contract I.D. SL17-080-R7**

STATE PROJECT

**Detection & CCTV Removal and Replacement**  
Located on Route 141 and various freeway locations in the St. Louis District  
St. Louis City, St. Louis County, Jefferson County, & St. Charles County, MO

**BIDDER CHECKLIST**  
**FINAL CHECKLIST BEFORE SUBMITTING BID**

- 1. Submit completed Contractor Questionnaire and/or Contractor Prequalification Questionnaire with attachments not later than **seven (7) days** prior to the date and hour of the bid opening. See Sections 101-103 of the Missouri Standard Specifications for Highway Construction, and Rule 7 CSR 10-15.900, "Prequalification's to Bid of Certain Contractors". Questionnaire and Contact information are provided on MoDOT's website.
- 2. If submitted in the name of a firm or corporation, the legal name of the firm or corporation should appear in the space designated, and be signed by one or more persons legally qualified to execute papers in the name of said firm or corporation.
- 3. The bidder shall submit a Bid Guaranty meeting the requirements of Section 102 of the Missouri Standard Specifications for Highway Construction. If submitting a project specific or annual bid bond, bidders must use the MoDOT provided bid bond forms. The project specific bid bond form is included in the request for bid. Annual bid bonds (both paper and electronic) shall be executed by June 15<sup>th</sup> of each year. Bid bonds should be mailed to: Stephanie Austin Rashid, CPPB, Procurement Unit, Operations Complex, 2309 Barrett Station Rd, Ballwin, MO 63021.

All questions concerning the bid document preparation shall be directed to Stephanie Austin Rashid – Procurement Division at (314) 205-7307, [Stephanie.AustinRashid@modot.mo.gov](mailto:Stephanie.AustinRashid@modot.mo.gov).

Rev. 03-13

TABLE OF CONTENTS

Notice to Contractors

Proposed Work.....item (1)

Compliance With Contract Provisions.....item (2)

Period of Performance.....item (3)

Liquidated Damages.....item (4)

Construction Safety Program.....item (5)

Personal Protective Equipment.....item (6)

Prevailing Wage.....item (7)

Bid Guaranty .....item (8)

Certifications for State Jobs.....item (9)

Antidiscrimination.....item (10)

Preference to Missouri Firms in Awarding of Contracts.....item (11)

Signature and Identity of Bidder.....item (12)

Insurance Requirements.....item (13)

Invoicing and Payment Requirements..... item (14)

Prohibition of Employment of Unauthorized Aliens..... item (15)

Itemized Bid Sheets

Scope of Work

Bid Bond

Pricing Page

Worker Eligibility Verification Affidavit

Applicant Affidavit for Sole-Proprietorship or Partnership

Separate Attachments

Attachment A – Locations for Detector and CCTV Install

Attachment B – Specifications RTMS SX-300

General Wage Order #60

**NOTICE TO CONTRACTORS**

Each bid must be mailed or hand delivered in a sealed envelope to Ms. Stephanie Austin Rashid, CPPB, Procurement Unit, Operations Complex, 2309 Barrett Station Rd., Ballwin, Mo. 63021.

Bids must be returned to the office of Ms. Austin Rashid no later **than 10:00 a.m., Local Time, March 3, 2017.**

- (1) **PROPOSED WORK:** The proposed work, hereinafter called the work, includes:

Labor and traffic control to install in-ground wireless sensors on Route 141 and detector and CCTV work at noted freeway locations on Attachment A in St. Louis City, St. Louis County, Jefferson County, and St. Charles County, MO.

(2) **COMPLIANCE WITH CONTRACT PROVISIONS:** The bidder, having examined and being familiar with the local conditions affecting the work, and with the contract, contract documents, including the Missouri Highways and Transportation Commission's "Missouri Standard Specifications for Highway Construction, 2016," and "Missouri Standard Plans for Highway Construction, 2016", their revisions, and the request for bid, including appendices, the special provisions and plans, hereby proposes to furnish all labor, materials, equipment, services, etc., required for the performance and completion of the work. All references are to the Missouri Standard Specifications for Highway Construction, as revised, unless otherwise noted. **All questions concerning the bid document preparation shall be directed to the Stephanie Austin Rashid – Procurement Division at (314) 205-7307, [Stephanie.AustinRashid@modot.mo.gov](mailto:Stephanie.AustinRashid@modot.mo.gov).**

(3) **PERIOD OF PERFORMANCE:** If the bid is accepted, the bidder shall continuously and diligently prosecute the work in such order and manner as will ensure the completion of the work within the time specified in Paragraph 4.4 of the first **Scope of Work** and Paragraph 4.2 part of the second **Scope of Work** this RFB.

(4) **LIQUIDATED DAMAGES:** The bidder agrees that, should the bidder fail to complete the work in the time specified or such additional time as may be allowed by the engineer under the contract, the amount of liquidated damages as specified in this section shall be recovered in accordance with Sec 108. If the contractor, or in case of default, the surety fails to begin the work by the notice to proceed date or fails to complete the work within the mutually agreed schedule included in each job order, the Commission, the traveling public, and state and local police and governmental authorities will be damaged in various ways, including but not limited to, increased construction administration cost, potential liability, traffic and traffic flow regulation cost, traffic congestion and motorist delay, with its resulting cost to the traveling public. These damages are not reasonably capable of being computed or quantified. Therefore, the contractor will be charged with liquidated damages specified in the amount of **\$1000.00** per day for each full day that the work is not started and **\$500.00** per day for each full day that the work is not completed within the required time periods. It shall be the responsibility of the engineer to determine the quantity of excess time.

(5) **CONSTRUCTION SAFETY PROGRAM:** Missouri law, 292.675 RSMo, requires the awarded Contractor and its subcontractor(s) to provide a ten-hour occupational safety and health administration (OSHA) construction safety program (or a similar program approved by the Missouri Department of Labor and Industrial Relations as a qualified substitute) for their on-site employees (laborers, workmen, drivers, equipment operators, and craftsmen) who have not previously completed such a program and are directly engaged in actual construction of the improvement (or working at a nearby or adjacent facility used for construction of the improvement). The Contractor and its subcontractor(s) shall require all such employees to complete this ten-hour program, pursuant to 292.675 RSMo, unless they hold documentation on their prior completion of said program. Penalties for non-compliance include Contractor forfeiture to the Commission in the amount of \$2,500, plus \$100 per contractor and subcontractor employee for each calendar day such employee is employed beyond the elapsed time period for required program completion under 292.675 RSMo.

(6) **PERSONAL PROTECTIVE EQUIPMENT:** All contractor and subcontractor employees utilized in the performance of work resulting from this request must adhere to OSHA standards and at a minimum shall utilize appropriate head, eye and foot protection in the performance of work.

All workers within highway right of way shall wear approved ANSI/ISEA 107 Performance Class 2 or 3 safety apparel and more specifically as follows:

**Daytime Flagger.** During daytime activities, flaggers shall wear a high visibility hard hat, safety glasses, a Performance Class 3 top OR a Performance Class 2 top, and safety footwear. Hard hats other than high visibility orange or green shall be covered with a high visibility covering.

**Daytime Worker.** During daytime activities, workers shall wear a hard hat, safety glasses, a Performance Class 3 top OR a Performance Class 2 top, and safety footwear.

**Nighttime Flagger.** During nighttime activities, flaggers shall wear a high visibility/reflective hard hat, safety glasses, a Performance Class 3 top AND Class E bottoms, OR Performance Class 2 top AND Class E bottoms, and safety footwear. Hard hats shall be reflective or covered with a high visibility covering.

**Nighttime Worker.** During nighttime activities, workers shall wear a hard hat, safety glasses, a Performance Class 3 top OR Performance Class 2 top AND Class E bottoms, and safety footwear.

(7) **PREVAILING WAGE:** General Wage order #60 to apply, St. Louis City, St. Louis County, Jefferson County, and St. Charles, MO in accordance with Section 110.

(8) **BID GUARANTY:** The bidder shall submit a Bid Guaranty meeting the requirements of Section 102 of the Missouri Standard Specifications for Highway Construction. The project bid bond form is included in the bid book and the project and annual bid bond forms are also available on MoDOT's website. Paper annual bid bonds shall be submitted to MoDOT by June 15<sup>th</sup> of each year, and electronic annual bid bonds shall be executed by June 15<sup>th</sup> of each year. The bidder shall mark the box below to identify the type of Bid Guaranty.

- Paper Annual Bid Bond
- Cashier's Check/Paper Project Bid Bond
- Electronic Bid Bond

(9) **CERTIFICATIONS FOR STATE JOBS:** By signing and submitting this bid, the bidder makes the certifications appearing in Sec. 102.18.2 (regarding disbarment, eligibility, indictments, convictions, or civil judgments), Sec. 102.18.3 (regarding anti-collusion), and Sec. 102.18.5 (regarding Missouri Domestic Products Procurement Act). Any necessary documentation is to accompany the bid submission, as required by these sections. As provided in Sec. 108.13, the Commission may terminate the contract for acts of misconduct, which includes but is not limited to fraud, dishonesty, and material misrepresentation or omission of fact within the bid submission.

(10) **ANTIDISCRIMINATION:** The Commission hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, businesses owned and controlled by socially and economically disadvantaged individuals will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, religion, creed, sex, age, ancestry, or national origin in consideration for an award.

(11) **PREFERENCE TO MISSOURI FIRMS IN AWARDING OF CONTRACTS:** The bidder's attention is directed to Section 34.355 RSMo Supp 2000, et seq, which requires that preference be given in awarding contracts to firms, corporations, or individuals doing business as Missouri firms, corporations, or individuals, or which maintain Missouri offices or places of business, when the quality of performance promised is equal, or better, and the price quoted is the same, or less.

The law also requires that a contractor or bidder domiciled outside the state of Missouri shall be required, in order to be the successful bidder, to submit a bid which is the same percent less than the lowest bid submitted by a responsible contractor or bidder domiciled in Missouri as would be required for the Missouri domiciled contractor or bidder to succeed over the bidding contractor or bidder domiciled outside Missouri in a like contract or bid being let in his domiciliary state. A contractor or bidder domiciled outside Missouri shall also be required to submit an audited financial statement as would be required of a Missouri domiciled contractor or bidder on a like contract or bid being let in the domiciliary state of that contractor or bidder.

For firms, corporations or individuals domiciled outside the state of Missouri, it is requested they submit the

following information:

List the state of domicile

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List address of all Missouri offices or places of business

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(12) **SIGNATURE AND IDENTITY OF BIDDER:** The undersigned states that the following provided information is correct and that (if not signing with the intention to bind themselves to become the responsible and sole bidder) they are the agent of, and they are signing and executing this, as the bid of

\_\_\_\_\_, which is the correct LEGAL NAME as stated on the contractor questionnaire.

a) The organization submitting this bid is a(n) (1) individual bidder, (2) partnership, (3) joint venturer (whether individuals or corporations, and whether doing business under a fictitious name), or (4) corporation. Indicate by marking the appropriate box below.

sole individual                                       partnership                                       joint venture

corporation, incorporated under laws of state of \_\_\_\_\_.

b) If the bidder is doing business under a fictitious name, indicate below by filling in the fictitious name

\_\_\_\_\_

Executed by bidder this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_.

THE BIDDER CERTIFIES THAT THE BIDDER AND ITS OFFICIALS, AGENTS, AND EMPLOYEES HAVE NEITHER DIRECTLY NOR INDIRECTLY ENTERED INTO ANY AGREEMENT, PARTICIPATED IN ANY COLLUSION, OR OTHERWISE TAKEN ANY ACTION IN RESTRAINT OF FREE COMPETITIVE BIDDING IN CONNECTION WITH THIS

BID, AND THAT THE BIDDER INTENDS TO PERFORM THE WORK WITH ITS OWN BONAFIDE EMPLOYEES AND SUBCONTRACTORS, AND DID NOT BID FOR THE BENEFIT OF ANOTHER CONTRACTOR.

THE BIDDER ACKNOWLEDGES THAT THIS IS AN UNSWORN DECLARATION, EXECUTED UNDER PENALTY OF PERJURY UNDER THE LAWS OF THE UNITED STATES AND/OR FALSE DECLARATION UNDER THE LAWS OF MISSOURI, AND ANY OTHER APPLICABLE STATE OR FEDERAL LAWS. THE FAILURE TO PROVIDE THIS CERTIFICATION IN THIS BID MAY MAKE THIS BID NON-RESPONSIVE, AND CAUSE IT TO BE REJECTED.

THE BIDDER CERTIFIES THAT THE BIDDER'S COMPANY KNOWINGLY EMPLOYS ONLY INDIVIDUALS WHO ARE AUTHORIZED TO WORK IN THE UNITED STATES IN ACCORDANCE WITH APPLICABLE FEDERAL AND STATE LAWS AND ALL PROVISIONS OF MISSOURI EXECUTIVE ORDER NO. 07-13 FOR CONTRACTS WITH THE MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION, ACTING THROUGH THE MISSOURI DEPARTMENT OF TRANSPORTATION.

Check this box ONLY if the bidder REFUSES to make any or all of these certifications. The bidder may provide an explanation for the refusal(s) with this submittal.

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Signature of Bidder’s Owner, Officer, Partner or Authorized Agent

\_\_\_\_\_  
Please print or type name and title of person signing here

Attest:

\_\_\_\_\_  
Secretary of Corporation if Bidder is a Corporation

Affix Corporate Seal (If Bidder is a Corporation)

NOTE: If bidder is doing business under a fictitious name, the bid shall be executed in the legal name of the individual, partners, joint ventures, or corporation, and registration of fictitious name filed with the secretary of state, as required by sections 417.200 to 417.230 RSMo. If the bidder is a corporation not organized under the laws of Missouri, it shall procure a certificate of authority to do business in Missouri, as required by section 351.572 et seq RSMo. A certified copy of such registration of fictitious name or certificate of authority to do business in Missouri shall be filed with the commission, as required by the standard specifications.

**(13) INSURANCE REQUIREMENTS:** The bidder shall maintain or cause to be maintained at bidder's own expense commercial general liability, automobile liability, worker’s compensation insurance against negligent acts, errors or omissions of the Contractor, or its subcontractors and anyone directly or indirectly employed by any of them. Any insurance policy required as specified in Section 107.13 shall be written by a company that is licensed and authorized to issue such insurance in the state of Missouri.

**(14) INVOICING AND PAYMENT REQUIREMENTS:** The contractor shall submit an itemized invoice to the following address after the completion of deliverables, as specified herein.

Missouri Department of Transportation  
Business & Benefits  
1590 Woodlake  
Chesterfield, MO. 63017-5712

Each invoice should be itemized in accordance with items listed on the purchase order and/or contract. The statewide financial management system has been designed to capture certain receipt and payment information. Therefore, each invoice submitted must reference the purchase order number and must be itemized in accordance with items listed on the purchase order. Failure to comply with this requirement may delay processing of invoices for payment.

The contractor shall be paid in accordance with the firm, fixed prices stated on the pricing page(s) of this document after completion of deliverables specified herein and acceptance by MoDOT.

MoDOT is exempt from paying Missouri Sales Tax, Missouri Use Tax and Federal Excise Tax. However, the contractor may themselves be responsible for the payment of taxes on materials they purchase to fulfill the contract. A Project Tax Exemption Certificate will be furnished to the successful bidder upon request.

Unless otherwise provided for in the solicitation documents, payment for all equipment, supplies, and/or services required herein shall be made in arrears. The Missouri Highways and Transportation Commission (MHTC) shall not make any advance deposits.

The MHTC assumes no obligation for equipment, supplies, and/or services shipped or provided in excess of the quantity ordered. Any authorized quantity is subject to the MHTC’s rejection and shall be returned at the contractor's expense.

Notarized weekly payroll documentation for prime and subcontractors will be required from start to finish of this contract showing compliance with prevailing wage rates. Lien Waivers from materials suppliers shall also be provided. Additional documents shall be furnished as required by other provisions in the bid package.

Payment shall be made per contractor invoice upon satisfactory completion of all work items and the receipt of the required documentation.

**(15) PROHIBITION OF EMPLOYMENT OF UNAUTHORIZED ALIENS:** Pursuant to Section 285.530, RSMo. no business entity or employer shall knowingly employ, hire for employment, or continue to employ an unauthorized alien to perform work within the State of Missouri. As a condition for the award of any contract or grant in excess of five thousand dollars by the State or by any political subdivision of the State to a business entity, or for any business entity receiving a state-administered or subsidized tax credit, tax abatement, or loan from the state, the business entity shall:

By sworn affidavit and provision of documentation, affirm its enrollment and participation in a federal work authorization program with respect to the employees working in connection with the contracted services. E-Verify is an example of a federal work authorization program. The business entity must affirm its enrollment and participation in the E-Verify federal work authorization program with respect to the employees proposed to work in connection with the services requested herein by providing acceptable enrollment and participation documentation consisting of completed copy of the E-Verify Memorandum of Understanding (MOU). For business entities that are not already enrolled and participating in a federal work authorization program, E-Verify is available at [http://www.dhs.gov/files/programs/gc\\_1185221678150.shtm](http://www.dhs.gov/files/programs/gc_1185221678150.shtm)

By sworn affidavit, affirm that it does not knowingly employ any person who is an unauthorized alien in connection with the contracted services. A copy of the affidavit referenced herein is provided within this document.

Proof of Lawful Presence For Sole Proprietorships and Partnerships: If the business entity is a sole proprietorship or partnership, pursuant to Section 208.009, RSMo., each sole proprietor and each general partner shall provide affirmative proof of lawful presence in the United States. Such sole proprietorship or partnership is eligible for temporary public benefits upon submission by each sole proprietor and general partner of a sworn affidavit of his/her lawful presence on the United States until such lawful presence is affirmatively determined, or as otherwise provided by Section 208.009, RSMo. A copy of the affidavit reference herein is provided within this document.



**SCOPE OF WORK: REMOVE AND INSTALL WIRELESS DETECTION SYSTEM**

**1.0 Description.** Furnish all personnel, equipment and materials necessary for removal, installation, and testing of Commission furnished wireless detection system components to obtain and report real-time traffic data at 11 intersections on MO 141 in St. Louis County. In particular, this work shall consist of removing existing and installing necessary Commission furnished travel time sensors, count class sensors, access points, and repeaters:

Location	MAG2 Sensor Qty	Access Point Qty	Repeater Qty
141 @ Clayton	10		
141 @ Milldale	21		
141 @ Burgundy	10		
141 @ Highlands (N. End)	32		
141 @ Highlands (S. End)	21		
141 @ Meramec Station	21		
141 @ Briarhurst	10		1
141 @ Helfrich	22		
141 @ I-44 EB	5		
141 @ I-44 WB	5	1	
141 @ Bowles	21		
<b>Total quantity</b>	<b>178</b>	<b>1</b>	<b>1</b>

**Table 1.**

The Contractor shall coordinate this work with MoDOT ITS staff for equipment pick up, and to ensure that the installed equipment is online and working accurately. ITS staff can be reached at 314-275-1578 and/or via email at [slits@modot.mo.gov](mailto:slits@modot.mo.gov).

**2.0 Materials.** Following SENSYS Networks materials and equipment will be provided by the Commission:

- 1 AccuSense Repeater
- 178 Flush-Mount MAG2 wireless sensors
- 1 AccuSense Control (Rack Mount) with Enhanced Ethernet Access Point
- 178 (450-ML) Pour-Pacs of Orange Epoxy

### **3.0 Construction Requirements.**

**3.1** The contractor shall present to the Engineer 2 weeks prior to the start of work at the first intersection written documentation of the order of work related to the disruption of the existing in-pavement detector devices. Consideration will be made to minimize the anticipated down time of the existing devices. A member of the Commission's local ITS staff will review and approve the schedule if the devices are used for either travel time or count and classification purposes.

**3.2** Before any of the construction operations disrupt the existing operation of the detectors, the Contractor shall present to the Engineer certification from the manufacturer for the removal and installation of the devices in this Section.

**3.3** The contractor shall exercise reasonable care in the handling of the equipment during removal, temporary storage, and installation. Should any of the equipment be damaged by the contractor's negligence, it shall be replaced at the contractor's expense.

**3.4** The sensors shall be removed from the pavement according to manufacturer's specifications.

**3.5** The contractor will be responsible for the proper temporary storage of the removed devices in a manner to prevent damage as per the manufacturer's recommendation.

**3.6** The contractor shall install detector units in the pavement at the exact locations and in the exact configuration as the units were prior to removal unless otherwise indicated in this document or by the Engineer. Contractor will be responsible to install detector units in the pavement following the manufacturer recommended procedures for installation. The detector units shall not extend above the top of the pavement. The contractor shall use Commission furnished epoxy in orange color for in-pavement sensor installation.

**3.7** If requested by the Engineer, a factory certified representative from the supplier shall be available for on-site assistance for a minimum of one day during installation.

**3.8** Mount access points to the structures using existing brackets and/or bandings. Route the existing composite data and power cable from access point to controller cabinet through the existing conduit system. The cable shall enter a horizontal pole at a point closest to the ground, and enter a vertical pole as soon as practical following the formation of a drip loop. The cable entrance hole shall be fitted with a suitable rubber grommet.

**3.9** Mount repeater units to the structures using existing bandings or mountings.

**3.10** The contractor shall use MoDOT Standards for lane closures and shoulder work. See examples in MoDOT’s Engineering Policy Guide at:

[http://epg.modot.mo.gov/index.php?title=616.23\\_Traffic\\_Control\\_for\\_Field\\_Operations](http://epg.modot.mo.gov/index.php?title=616.23_Traffic_Control_for_Field_Operations)

**4.0 Acceptance Testing and Completion Date.**

**4.1** Develop a proposed test procedure for the installed in-pavement wireless sensors and submit it to the Engineer for approval at least 2 weeks before the start of work at the first intersection. Additionally, develop a proposed test procedure for the removed Flush Mount MAG2 in-pavement wireless sensors and return the working units to the Commission. Contractor shall be responsible for disposal of all other types of in-pavement wireless sensors and other removed non-working devices. Each detector and device shall be tested separately. Revise the proposed test procedure until it is acceptable to the Engineer.

**4.2** The Contractor shall confirm to the satisfaction of the Engineer that each newly installed detector’s live status is viewable through the Commission’s communication network before acceptance.

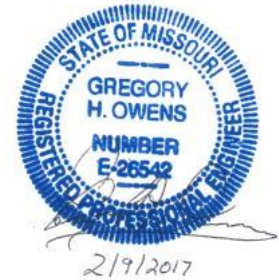
**4.3** The Contractor shall provide all equipment and personnel needed to safely conduct the tests. Arrange for the Engineer’s representative to witness the tests. Provide the Engineer a report documenting the result of the tests.

**4.4** All work to be completed by May 15, 2017.

**5.0 Measurement and Payment.**

**5.1** Measurement and payment for items covered by this specification include the documentation, and acceptance testing, in addition to all materials and equipment necessary to restore the system to be fully operational. No direct pay for installation of any device by the manufacturer to re-enable a fully functional system. Standard Traffic Control set up shall be included for each device site.

<b>Item Number</b>	<b>Type</b>	<b>Description</b>
910-99.01	Each	Remove and Install In-Pavement Wireless Detection System
910-99.02	Each	Remove and Install Access Point Assembly
910-99.03	Each	Remove and Install Wireless Repeater



**SCOPE OF WORK: SIDE RADAR DETECTOR ASSEMBLY INSTALLATION  
& ANALOG CCTV CAMERA REPLACEMENT AT EXISTING MoDOT CCTV POLES**

**1.0 General.**

**1.1 Description of Work.** The contractor shall install 34 Commission furnished side radar detector (RTMS Sx-300) kits to the existing MoDOT CCTV Camera assembly in set locations (see Attachment A). The contractor shall install, configure, calibrate and test detectors for proper operation per manufacture specifications and manual (see Attachment B). Each detector shall collect vehicle volumes, speeds, classifications for all traffic lanes (on both directions) per manufacture manual.

The contractor also shall replace the noted existing 23 analog CCTV cameras with Commission furnished IP Cameras and cables (see Attachment A for detail locations). The contractor shall dispose the existing cable and return the existing CCTV, encoder, and device server to the MoDOT TMC.

Contractor shall coordinate this work with MoDOT ITS staff (call 314-275-1578 and/or email [slits@modot.mo.gov](mailto:slits@modot.mo.gov)) to verify detectors & IP CCTV cameras are online and the detector is collecting accurate data.

**1.2 Qualified Personnel.** The Commission's agreement with the detector manufacturer obligates the manufacturer to train the Commission's installation contractors in the unpacking, assembling, mounting, positioning, connecting to the communication network, set up, and testing of the detectors. The training is free to the contractor, and is conducted at the jobsite. The contractor shall not perform any work until the manufacturer has certified the contractor as qualified. Only personnel who have been trained by the manufacturer shall participate in the detector installation, setup, and testing. A Commission representative will be present to observe the training.

**1.2.1** Contractors certified under a previous Commission contract need not be trained a second time, but only personnel who received the training shall participate in the detector installation and testing.

**1.3 Support During Installation.** The Commission's agreement with the detector manufacturer obligates the manufacturer to provide both on-site and remote factory support.

## **2.0 Materials.**

### **2.1 Commission Furnished Detector Kit includes the following parts:**

- RTMS SX-300 Detector Unit
- Mounting Bracket
- TCP Interface Panel
- 40' cable

### **2.2 Commission Furnished CCTV Kit includes the following parts:**

- Cohu CCTV Camera
- CCTV Cable
- Surge Arrestor kit (including the power supply)

The contractor shall check Commission Furnished CCTV Camera's housing pressurization and make necessary adjustment per the manufacture recommendations prior to installation. If they are unable to achieve the proper housing pressure, MoDOT will replace it with another Commission furnished CCTV Camera.

**2.3** The Contractor shall furnish any other miscellaneous hardware required to complete this task per manufacture and MoDOT specifications.

## **3.0 Construction Requirements.**

**3.1** The contractor shall install the detector in accordance with the manufacturer's recommended procedure for side-fired installation. The contractor shall take care to install it at the recommended height, and note that the recommended mounting height is relative to the road surface, not the base of the pole. The contractor shall strap the detector's mounting bracket to the pole with metal bands so that it faces the detection zones shown on the plans.

**3.2** The contractor shall use the existing CCTV Camera cabinet power outlet and network devices for this detector. The contractor shall use silicone sealant at the point where the two cables enter the connector to prevent the entry moisture and bugs.

**3.3** The contractor shall aim and lock the detector to provide the coverage area required for one detection zone per lane.

**3.4** Using the set-up software from the detector manufacturer, the contractor shall set up the detection zones and operating parameters for all available traffic lanes including on and off ramps, if applicable. The set up shall include speed calibration using measured reference speeds. The contractor shall provide all equipment needed for the setup work, such as a radar gun, software, computer, tools, and cables. When the detector is operating properly and has passed its acceptance test, the contractor shall deliver the

values of all the detector's operating parameters to the engineer in printed or computer-readable form.

**3.5** The contractor shall use MoDOT Standards for lane closures and shoulder work. See examples in MoDOT's Engineering Policy Guide at:

[http://epg.modot.mo.gov/index.php?title=616.23 Traffic Control for Field Operations](http://epg.modot.mo.gov/index.php?title=616.23_Traffic_Control_for_Field_Operations)

#### **4.0 Acceptance Testing and Completion Date.**

**4.1** After installing the detector, the contractor shall test it using procedures developed by the contractor and approved by the engineer. These tests shall include confirmation of the accuracy of counts and average speed in each lane. Both results shall be within ten percent of independently measured values during a 15-minute period. The test will be witnessed by the engineer. If the installed detector fails to operate properly and the problem cannot be fixed by changing the setup parameters, the detector shall be deemed defective and the contractor shall return it to the manufacturer for replacement. Except for costs borne by the manufacturer under his warranty agreement, the cost of replacement shall be borne entirely by the contractor.

**4.2** All work to be completed by May 15, 2017.

**5.0 Basis of Payment.** Measurement and payment for detector & CCTV camera installation includes all miscellaneous hardware required for a safe, fully operational detector and CCTV (see attached list). Standard Traffic Control set up shall be included for each device site. Payment will be made as follows:

<b>Item No.</b>	<b>Type</b>	<b>Description</b>
910-99.04	Each	Microwave Detector Installation only
910-99.05	Each	Microwave Detector, Installed and CCTV Camera Removal and Installed

(Revised 08/96)

**BID BOND**

KNOW ALL PERSONS BY THESE PRESENTS, that we \_\_\_\_\_

\_\_\_\_\_ as principal and \_\_\_\_\_ as surety, are held and firmly bound unto the state of Missouri (acting by and through the Missouri Highways and Transportation Commission) in the penal sum of \_\_\_\_\_ Dollars (\$) to be paid to the commission to be credited to the state road fund, the principal and surety binding themselves, their heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

Sealed with our seals and dated this \_\_\_\_\_

THE CONDITION OF THIS OBLIGATION is such that

WHEREAS the principal is submitting herewith a bid to the commission on Route 141 and various freeway locations in St. Louis City, St. Louis County, Jefferson County, and St. Charles County, MO, project SL17-080-R7, Detection & CCTV Removal and Replacement, for construction or improvement of state highway as set out in said bid;

NOW THEREFORE, if the commission shall accept the bid of the principal and if the principal shall properly execute and deliver to the commission the contract, contract bond, and evidence of insurance coverage in compliance with the requirements of the bid, the specifications, and the provisions of section 227.100 RSMo, to the satisfaction of the commission, then this obligation shall be void and of no effect, otherwise to remain in full force and effect.

In the event the said principal shall, in the judgment of the commission, fail to comply with any requirement as set forth in the preceding paragraph, then the state of Missouri, acting by and through the commission, shall immediately and forthwith be entitled to recover the full penal sum above set out, together with court costs, attorney's fees, and any other expense of recovery.

The principal and surety hereby certify that the document is the original or a verbatim copy of the bid bond form furnished by the Commission, in accordance with Sec 102.9 of the Missouri Standard Specifications for Highway Construction.

\_\_\_\_\_  
Principal

SEAL

By \_\_\_\_\_  
Signature

\_\_\_\_\_  
Surety

SEAL

By \_\_\_\_\_  
Signature of Attorney in Fact

NOTE: This bond must be executed by the principal, and by a corporate surety authorized to conduct surety business in the state of Missouri.

**PRICING PAGE**

The bidder shall provide a firm, fixed price in the table below for the original contract period for providing the deliverables/services in accordance with the provisions and requirements of this RFB. All costs associated with providing the required deliverables/services shall be included in the prices stated below.

<b>Detection &amp; CCTV Removal and Replacement</b>					
<b>Item #</b>	<b>Description</b>	<b>QTY</b>	<b>U/M</b>	<b>COST U/M</b>	<b>EXTENDED COST</b>
<b>Remove and Install Wireless Detection System</b>					
001	Remove and Install In-Pavement Wireless Detection System	1	Ea		
002	Remove and Install Access Point Assembly	1	Ea		
003	Remove and Install Wireless Repeater	1	Ea		
TOTAL EXTENDED PROJECT COST					
<b>Side Radar Detector Assembly Installation &amp; Analog CCTV Camera Replacement at Existing MODOT CCTV Poles</b>					
004	Microwave Detector Installation only	1	Ea		
005	Microwave Detector, Installed and CCTV Camera Removal and Installed	1	Ea		
TOTAL EXTENDED PROJECT COST					
<b>TOTAL EXTENDED COST FOR BOTH PROJECTS</b>					<b>\$</b>

**COMPANY:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**SIGNATURE:** \_\_\_\_\_

**PRINTED NAME/ TITLE:** \_\_\_\_\_



**APPLICANT AFFIDAVIT FOR SOLE-PROPRIETORSHIP OR PARTNERSHIP**

(a separate affidavit is required for each owner and general partner)(*if applicable*)

STATE OF \_\_\_\_\_ )  
 ) ss  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me appeared \_\_\_\_\_, personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instruments, who being by me duly sworn, deposed as follows:

***My name is \_\_\_\_\_, and I am of sound mind, capable of making this affidavit, and personally certify the facts herein stated, as required by Section 208.009, RSMo, for failure to provide affirmative proof of lawful presence in the United States of America:***

I am the \_\_\_\_\_ of \_\_\_\_\_, which is  
owner or partner applying for a public benefit (grant, contract, and/or loan) administered/provided by the Missouri Highways and Transportation Commission (MHTC), acting by and through the Missouri Department of Transportation (MoDOT). I am classified by the United States of America as: (check the applicable box) \_\_ a United States citizen \_\_ an alien lawfully admitted for permanent residence.

I am aware that Missouri law provides that any person who obtains any public benefit by means of a willfully false statement or representation, or by willful concealment or failure to report any fact or event required to be reported, or by other fraudulent device, shall be guilty of the crime of stealing pursuant to Section 570.030, RSMo, which is a Class C felony for stolen public benefits valued between \$500 and \$25,000 (punishable by a term of imprisonment not to exceed 7 years and/or a fine not more than \$5,000 – Sections 558.011 and 560.011, RSMo), and is a Class B felony for stolen public benefits valued at \$25,000 or more (punishable by a term of imprisonment not less than 5 years and not to exceed 15 years – Section 558.011, RSMo).

I recognize that, upon proper submission of this sworn affidavit, I will only be eligible for temporary public benefits until such time as my lawful presence in the United States is determined, or as otherwise provided by Section 208.009, RSMo.

I understand that Missouri law requires MHTC/MoDOT to provide assistance in obtaining appropriate documentation to prove citizenship or lawful presence in the United States, and I agree to submit any requests for such assistance to MHTC/MoDOT in writing.

I acknowledge that I am signing this affidavit as a free act and deed and not under duress.

\_\_\_\_\_  
Affiant Signature

\_\_\_\_\_  
Affiant's Social Security Number or  
Applicable Federal Identification Number

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
Notary Public

My commission expires: