



SONORA POLICE DEPARTMENT

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"Maintaining a Safe Community since 1851"

April 21, 2021

Subject: ALPR Systems Project

Perspective Vendor,

Enclosed/Attached you will find a Request for Proposals (RFP) which would provide two (2) fixed Automated License Plate Recognition (ALPR) and two (2) Public Safety Camera ("PSC") systems to include CJIS-compliant cloud hosting, vehicle classification and backend software, automated license plate hotlist uploading and matching, real-time "hit" alerts, installation, operator and administrator training, warranties, and all the equipment necessary to install, stand up, operate, maintain, and support ALPR hardware/software for a period of up to five (5) years. **The deadline for receipt of completed proposals is 4:00 PM on Friday, May 14, 2021.**

Proposals must, at a minimum, include the following:

1. Company name, address and telephone number(s) of the firm submitting the proposal.
2. Company Tax Identification Number
3. If reseller or distributor, indicate the name of the vendor/manufacturer and product/s being proposed.
4. Provide a statement which includes the language "proposal shall be valid and binding for ninety (90) days following proposal due date and will become part of the contract that is negotiated with the City."
5. Provide contact information for the person authorized to negotiate on behalf of the bidder, to include, name, title, email, phone number.
6. Must contain signature of duly authorized representative of the bidder, having the legal authority to make the proposed offer.
7. Provide your company's background and introduce to your products and services. Describe your company's experience providing similar fixed ALPR products/services. Provide an overview the features and benefits of your proposed solution.
8. Cost of Products/Services
 - a. The proposal must include a fee schedule that indicates subscription and/or purchase costs for the proposed services/products.
 - b. Vendor must provide pricing as set forth in the Request for Estimate. All

proposals must be itemized and include the per unit and total extended cost of items. Pricing must include all shipping, labor, training, and all charges for complete implementation of all proposed ALPR equipment. Pricing must include installation technical support.

- c. All proposals must include full 5-year cost of ownership (with any annual cost escalations clearly identified for each year), to include hardware warranties and all associated software licensing.
- d. Alternatives, variations and exceptions must be clearly stated.

All written proposals must be submitted in triplicate bid to:

City of Sonora Police Department
Attn: Lieutenant Jennifer Hannula
100 South Green St.
Sonora, Ca. 95370

Faxed and email submissions are accepted and must be submitted to:

City of Sonora Police Department
Attn: Lieutenant Jennifer Hannula
jhannula@sonorapd.com
FAX: 209-532-4845

Regards,

Turu VanderWiel
Chief of Police
Sonora Police Department
209-532-8141

Cc: City of Sonora Administration

CITY OF SONORA

REQUEST FOR ESTIMATE

To provide Fixed Automated License Plate Recognition and Fixed Public Safety Camera Systems

LOCATION:

100 South Green Street, Sonora, CA

PROJECT DESCRIPTION:

On behalf of the Sonora Police Department (“Department”), the City of Sonora, California (“City”) is soliciting proposals from qualified Vendors (“Vendor”) for the purchase or lease of fixed Automated License Plate Recognition (“ALPR”) and Fixed Public Safety Camera (“PSC”) systems.

PROJECT SCOPE OF WORK:

The goal of this project is to contract with a qualified vendor who will provide ALPR and PSC systems that meet all of the requirements detailed herein. The City is interested in proposals which would provide two (2) fixed ALPR and two fixed (2) PSC systems. The ALPR to include CJIS-compliant cloud hosting, vehicle classification and backend software, automated license plate hotlist uploading and matching, real-time “hit” alerts, installation, operator and administrator training, warranties, and all the equipment necessary to install, stand up, operate, maintain, and support ALPR hardware/software for a period of up to five (5) years. The City’s previous experiences with PSC systems has led to the decision to standardize PSC systems to an Avigilon platform which allows for the integration of some existing cameras to keep costs down but also provides a standardized PCS system for the future so as to avoid the problems of operating different PSC systems.

ALPR systems must meet the following minimal performance requirements:

1. ALPR Camera Systems
 - a. Fixed ALPR systems must be able to perform with high read accuracy at night, in dim lighting and in extreme weather conditions.
 - b. Fixed ALPR cameras must have the capability to perform video processing at the edge and not require data transfer/streaming of video to the cloud.
 - c. Fixed ALPR systems must be able to capture vehicle make, model, body type, color, and travel direction, in real time via artificial intelligence-based software, on the edge, as opposed to reliance on motor vehicle registration database lookups.
 - d. Fixed ALPR cameras must be able of continuing to read, evaluate and retain license plate captures if cellular connectivity is interrupted and to

subsequently send all collected data during the interrupted connectivity period to the cloud-based central system when cellular connectivity is reestablished.

- e. Fixed ALPR systems must capture the Global Positioning System (“GPS”) coordinates for every recorded license plate read.
 - f. Vehicle detection from fixed ALPR cameras must provide an HD (“High Definition”) video clip of the vehicle as it passes the cameras field of view.
 - g. Fixed ALPR cameras must be able to store and make accessible to the City 30 days of continuously recorded HD video enabling historical review.
 - h. Fixed systems must be capable of supporting “live viewing” through the camera at any time to provide situational awareness.
 - i. Video monitoring and recording must not be disabled when using cameras for ALPR purposes.
 - j. Fixed ALPR systems shall have an alerting latency of not more than 10 seconds.
 - k. Fixed ALPR camera systems must be capable (from a single camera) of reading license plates:
 - i. Across at least three (3) lanes of traffic simultaneously;
 - ii. At a capture range of at least 275 feet during daylight hours and 140 feet during nighttime hours;
 - iii. At vehicle speeds of at least 120 MPH; and
 - iv. In daytime and nighttime from all fifty (50) states, including vanity plates, multiple plates and half-height characters.
 - l. Fixed ALPR camera systems shall support optional solar or AC power.
2. ALPR Back Office System:
- a. Retention and enforcement:
 - i. The system shall support definable retention in accordance with the agency’s policy.
 - ii. The system must allow for policy-based retention wherein the retention periods can be individually defined, and automatically implemented, based on being a non-hit read or a hit (against a hotlist). The “hit retention” shall be further definable based on severity and hotlist.
 - iii. ALPR system use of data must be compliant with California Senate Bill 34 (SB34).
 - b. Searching and investigative activities:
 - i. The system shall support the finding and locating of vehicles based on:
 - 1. License tag characters, using an exact or “fuzzy” search
 - 2. License tag state
 - 3. Any combination of vehicle make, body type, color or direction of travel
 - ii. Searches shall be filterable and limited by camera identifier and geographic location, date and time ranges.
 - iii. The following defined searches shall be supported:

1. Interdiction Analysis: Find vehicles that are traveling on a defined path.
 2. Convoy Analysis: Find vehicles that are commonly associated with each other.
 3. Common Vehicle Analysis: Find vehicles associated with one or more locations of interest such as a crime location a certain day and/or time.
 4. Bulk Search Analysis: Find vehicles associated with a defined list.
 5. Vehicle Speed Analysis: Speed estimated by time between two know locations.
- iv. The data captured by the system must be capable of being made anonymous for historical traffic flow analyses.
- c. Remote Support: Fixed ALPR cameras must provide for automatic functionality alerting as well as supporting remote diagnostics and monitoring on a 24/7 basis.
 - d. Sharing:
 - i. The system shall be capable of ingesting data from and sending data to any approved Department-approved third-party database.
 - ii. The system shall support sharing with a common "data lake".
 - iii. The system shall support definable sharing partners and supporting searches in a peer-to-peer architecture without the need to export to a common "data lake".

PSC Systems must include the following or equivalent items:

- (1) Two (2) Avigilon 20C-H4A-4MH-360 4X5 MP, WDR, LightCatcher, 2.8mm, Cameras
- (2) Two (2) Avigilon H4AMH-AD-PEND1 Outdoor pendant mount adapter
- (3) Two (2) Avigilon IRPTZ-MNT-WALL1 Mount, Pend wall, IR PTZ
- (4) Two (2) Avigilon H4AMH-DO-COVR1 Dome bubble and cover, for outdoor surface mount or pendant mount, clear.
- (5) Two (2) Avigilon H4AMH-AD-IRIL1 Optional IR illuminator ring, up to 30m (100ft), for use with H4AMH-DO-COVR1.
- (6) Two (2) Avigilon H4-MT-POLE1 Pole mount adapter for use with H4A-MT-WALL1, H4-BO-JBOX1, H4SL, H4F
- (7) Two (2) OLM POE-INJ2-60W-NA Indoor single port Gigabit PoE++ 60W
- (8) Two (2) PP350 Pelco PP350 Parapet Wall Mount
- (9) One (1) Avigilon VMA-AS3-8P2-NA HD Video Appliance 8-port 2TB unit, NA
- (10) One (1) Samsung - 32" Class Q50R Series LED 4K UHD & Rocketfish™ - Tilting TV Wall Mount
- (11) Two (2) Avigilon ACC 7 Enterprise Edition camera license
- (12) One (1) MH-B100-CCS-PoE-MWB MultiHaul™ Base Unit
- (13) Two (2) MH-T201-CNN-PoE-MWB MultiHaul CTU, Base 100 mbps, UPG to 100 mbps, 1 RJ45 MK PoE injector IP 65
- (14) One (1) SR-EW-3Y-MH-B SikluCare "Silver" Service&Support Plan

- (15) Two (2) SR-EW-3Y-MH-T SikluCare "Silver" Service&Support Plan
- (16) Two (2) MH-UPG-TU-100-1000 MultiHaul™ Software Upgrades
- (17) One (1) MH-UPG-BU-500-1800 MultiHaul™ Software Upgrades

SPECIFICATIONS:

Any proposed specified material change must be pre-approved, in writing, by the City of Sonora.

TIME OF WORK:

Estimated delivery times of material or equipment must be included in the proposal. Project is anticipated to begin on or before June 1, 2021 .

ENGINEERS ESTIMATE:

There is no Engineers Estimate for this project.

PROJECT MANAGER:

All questions related to the estimate submittal should be directed to Jennifer Hannula, Operations Lieutenant, (209) 532-8141, jhannula@sonorapd.com.

INSURANCE REQUIREMENTS:

The Contractor, prior to the start of work, shall comply with the requirements under Attachment A, City of Sonora Standard Insurance Requirements.

ESTIMATE PROCESS/OPENING:

All estimates must be received on or before 4:00 pm on the 14th day of June, 2021 . Estimates shall be valid for ninety (90) days after the received by date.

No estimates will be accepted from a Contractor who is not licensed in accordance with the provisions of Chapter 9 of Division 3 of the Business and Professions Code or on the State Debarred List.

Project Manager