

AMENDMENT ONE TO AGREEMENT FOR  
DESIGN AND ENGINEERING SERVICES FOR  
HILL ROAD CORRECTIONAL FACILITY SECURITY ELECTRONICS SYSTEMS UPGRADE  
IN LAKE COUNTY, CALIFORNIA

THIS AMENDMENT ONE TO AGREEMENT is made this \_\_\_\_\_ day of \_\_\_\_\_, 2017, by, and between, the County of Lake, hereinafter referred to as "COUNTY", and AVS Engineers, hereinafter referred to as "CONSULTANT".

WITNESSETH

WHEREAS, COUNTY and CONSULTANT entered into an AGREEMENT dated April 5, 2016, to upgrade the existing security electronics systems at the Hill Road Correctional Facility (HRCF); and

WHEREAS, the AGREEMENT scope of work was based on concurrent efforts to be performed by CONSULTANT as part of a proposed HRCF expansion project to include a new mental health clinic, female housing, and inmate program space; and

WHEREAS, COUNTY cancelled the proposed HRCF expansion project; and

WHEREAS, COUNTY still desires to upgrade the existing HRCF security electronics equipment and control stations; and

WHEREAS, CONSULTANT is duly licensed, qualified and experienced to perform said services; and

WHEREAS, Article XIV, Section A, "MODIFICATION", of said Agreement allows that matters concerning scope of services which affect the agreed price may only be modified by written amendment thereto, executed by both parties; and

WHEREAS, COUNTY AND CONSULTANT now desire to amend said Agreement to complete the necessary work,

NOW, THEREFORE, the parties hereto agree as follows:

1. Article I, "CONSULTANT'S RESPONSIBILITIES", sections "A" and "B", are hereby modified to read as follows:

"A. CONSULTANT shall perform the services described in Exhibit "A-1", attached hereto and incorporated herein by this reference hereinafter called Scope of Work. In the event of a conflict between this Agreement and Exhibit "A-1", the provisions of this Agreement shall control.

B. Time of Beginning and Completion of Services: Work on the PROJECT shall begin no later than five (5) calendar days after CONSULTANT's receipt of a COUNTY issued Notice to Proceed. CONSULTANT shall perform services within the times provided in Exhibit "A-1", which by reference are made a part hereof, except that, if applicable, the schedule shall be adjusted to reflect any delay in issuance of the Notice to Proceed, or other delay factors not subject to CONSULTANT's reasonable control."

2. ARTICLE V, "COMPENSATION AND TERMS OF PAYMENT", Section C, is hereby modified to read as follows:

"C. Compensation: The COUNTY agrees to pay CONSULTANT a stipulated sum of \$123,488, broken down by project phase as provided in Exhibit "B-1", including cost of labor and expenses, to perform the professional services provided by this agreement and as presented in Exhibit "A-1", attached hereto and incorporated herein. Total payments to CONSULTANT shall not exceed the stipulated sum without prior written authorization by COUNTY and formal Amendment to this Agreement.

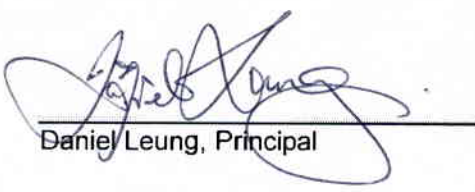
Except as specifically modified herein, all other terms and conditions of the AGREEMENT dated April 5, 2016 shall remain in full force and effect.

COUNTY and CONSULTANT have executed this Amendment One to Agreement on the day and year first written above.

COUNTY OF LAKE:

\_\_\_\_\_  
Chair, Board of Supervisors

CONSULTANT

  
\_\_\_\_\_  
Daniel Leung, Principal

ATTEST: CAROL J. HUCHINGSON  
Clerk of the Board  
of Supervisors

APPROVED AS TO FORM:  
ANITA L. GRANT  
County Counsel

By: \_\_\_\_\_

By:  \_\_\_\_\_

12/01/2016

**LAKE COUNTY HILL ROAD CORRECTIONAL FACILITY SECURITY UPGRADE, LAKE, CA**

AVS will provide the full design and construction support services of the Security Electronics Systems Upgrade for the **Lake County Hill Road Correctional Facility in Lake, California**, as outlined in the Scope of Work below:

**General Description**

The existing Lake County Hill Road Correctional Facility currently operates on antiquated control electronics. Staff control and monitor doors, intercoms, duress stations, lighting, TV, telephone, and other utilities primarily via hard control panels, which take up much valuable space and can be inefficient to operate due to the overall large number of physical panels to navigate. In addition, much of the equipment either has reached or is near the end of its life cycle. Consequently, Sheriff's Operations would like for the security electronics equipment to be upgraded/replaced and new control stations to replace all existing hard panels in each control room.

**Detailed Scope of Work**

1. Replacement of all existing intercoms under Phase I and Phase II. All existing wiring is assumed intact and usable. New digital intercoms and servers will be provided, along with new master intercom stations at existing Control Rooms in Phases I and II.
2. Reuse of all existing paging speakers and defined zones. Provide new paging amps and paging controllers for digital integration with the new Intercom System.
3. Reuse of all existing electronic/pneumatic door locks, door positions switches (DPS), duress alarms, and lighting/TV/telephone/shower relay controls. Replace all existing control electronics headend equipment (including interface boards and relays) with new PLC electronics and relays. Provide new HMI interface at existing Control Rooms in Phases I and II to operate concurrent with existing hard panels during cutover to reduce overall downtimes.
4. Demolish existing hard control panels during cutover and tie-back/label unused wiring.
5. Demolish existing custom casework housing the removed hard panels and provide new control stations and casework accordingly.
6. All new headend equipment and interfaces to be housed in existing equipment rooms. Provide new fiber network to new Security Electronics Room in the new Housing/Treatment Building.
7. Network all the control electronics together so that takeover capabilities are achieved via Central Control.
8. Reuse of all CCTV cameras. It is assumed (per Sheriff's input) that the cameras are all IP based and will be available for integration via existing camera network. A fiber connection will be provided from existing single POC to new CCTV system. Integrated auto-call up and recording will be programmed into the new system NVR and HMI interface. Add new cameras throughout the facility as needed.

9. New centralized storage for all cameras (facility wide) will be provided, unless otherwise directed by the County. Storage will be 13 months.
10. It is assumed that existing power and cooling in the existing electronics rooms are sufficient for the replaced electronics.

With the consideration of many assumptions and unknowns including camera quantities, casework arrangement, and existing device county, our best estimated turn-key construction cost is in the range of \$1.05-1.25M at this time (based on 100 existing cameras and 50 additional needed).

\* Note that device counts and interfaces are based on as-built information provided by the County. Actual field conditions may not match as-builts and affect the construction cost.

**Under Basic Services, the following Electronic Security Systems are INCLUDED:**

- Door/Gate Control and Position Monitoring System.
- Card Access Control and ID Badging System.
- Video Surveillance and Recording System.
- Two-way Intercommunication System.
- Facility Paging System.
- Duress/Panic Alarm System.
- Security Control Electronics.
- Security Operator Interfaces.
- Graphics Control Panels and Alarm Annunciators.
- Miscellaneous Utility Controls.
- Security Equipment Room Layout.
- Security Uninterruptible Power Supplies.
- System Infrastructures (signal raceway and cabling)
- System Signal Grounding.

Note: All systems and tasks not specifically indicated will be considered Additional Services.

**Exclusions:**

- Telecommunications (Voice and Data) Structured Cabling.
- Fire Alarm System.
- Perimeter Fence Detection/Protection System.
- Personal Alarm Locating system (wireless).
- Two Way Radio Communications.
- Smoke Control System.
- Building Management System.

- Design of Door/Gate Hardware.
- Additional Design/Coordination Meetings and Site Visits/Meetings.
- BIM Drawings / Revit Modeling or Documentation.
- Installation of Anything.

**Deliverables:**

- Deliverable documents shall be made electronically for Drawings, Specifications and Reports. Drawings will be produced in AutoCAD format and distributed in PDF format for review. A hard copy of the final sealed bid documents (plans and specifications) will be provided for bid package reproduction by County.

**Schedule:**

- Design Development - 3 months
- Design Documents - 3 months
- Bidding and Awards - 2 months
- Construction Period – 6 months

END



EXHIBIT B-1

December 1, 2016

Mr. Lars Ewing  
Dept. of Public Works  
255 N. Forbes Street, Rm. 309  
Lakeport, CA 95453

Subject: Lake County Hill Road Correctional Facility Security Upgrade, Lake, California  
Fee Proposal for Design and Engineering Services (Revised 12/1/16)  
Security Electronics Systems

Dear Mr. Ewing:

Thank you for the opportunity to provide you with a fee proposal to perform the following Scope of Work: Provide fully designed plans, details and specifications for bid solicitation purposes, a probable construction cost estimate, and construction support services for the Security Upgrade services of the existing Hill Road Correctional Facility in Lake, California, and summarized in attached Exhibit A.

Our proposed Scope of Services will include a maximum of two (2) design/coordination meetings, one (1) site investigation trip, and three (3) site visits for submittal reviews, general observations and system performance/punch list testing. Construction support services will include RFI responses and submittal reviews.

AVS proposes to perform the Basic Scope of Services for a Lump Sum fee of **\$123,488.00 (One hundred twenty-three thousand, four hundred eighty-eight dollars and zero cents)**, including all expenses and according to the basis of compensation below:

Design Development	\$ 46,890.00
Construction Documents	\$ 52,120.00
Bidding Support	\$ 3,753.00
Construction Support	\$ 20,725.00

**Fee Total** **\$ 123,488.00**

Please review the revised Scope of Work in Exhibit A and feel free to contact me should you have any questions or comments. We look forward to working with you on this project.

Sincerely Yours,

A handwritten signature in black ink, appearing to read 'Daniel Leung', is written over a light blue horizontal line.

Daniel Leung, Principal  
AVS Engineers, Inc.