

To Whom It May Concern:

As the past Program Manager for all Arizona Highways Intelligent Transportation System (ITS), I had a great many opportunities to work with CS Construction, Inc (CSCI). In fact, in the past 4 years, I am directly familiar with CSCI's work to implement, integrate, construct and install over 35 miles of ITS on Arizona highways. In addition to full ITS projects they were responsible for installing DMS signs statewide from the Utah border to southeastern Arizona. The projects that CSCI worked on were especially challenging since ADOT had not constructed an ITS project in over 5 years. CSCI was responsible for implementing new technology, blending the new devices with legacy systems, and ensuring that all the devices both new and old were fully functioning. They got the job done.

Adding to the technical challenges, the projects CSCI worked on were extremely high profile. The phase 10 and 11 projects were on a tight deadline as the work needed to be complete in less than a year for use by Superbowl XLII. In all, 27 new Pelco CCTV cameras were deployed at field locations by CSCI. CSCI was responsible for providing a complete communications system in order to transport CCTV signals back to the ADOT TOC. Within the TOC CSCI configured the Camera Chameleon software system in order to provide operator access to the newly installed cameras. CSCI also developed the CCTV test procedures utilized on the projects. These test procedures are now the same ones in use by other contractors conducting ADOT projects.

CSCI installed, tested and integrated vehicle detection, ramp metering and traffic signal controllers throughout the phase 8 and 13 projects in Mesa. CSCI was responsible for delivering all traffic data to the ADOT TOC production server as well as constructing and integrating the first new Node building with updated electronics, SCADA systems, and CWDM. CSCI ensured the integrity of all traffic data delivered to the production server. This data was derived from both existing and new field devices.

CSCI is familiar with building a system from scratch and also integrating a system that combines new and legacy technologies. They faced challenges and changes with a "get the job done" attitude. This was especially appreciated since blending old and new technology frequently produces unique conditions that require practical field adjustments. In all the work CSCI completed they never hesitated to do what was required to make the system work. This included callouts at 2:00am, practical solutions when design adjustments were needed and the patience to start-up new, never used systems with state staff that had no previous experience on the hardware, construction and software integration as well as new vendors working with the state for the first time.

CS Construction, Inc. has both the knowledge base as well as the resources to install and integrate complete ITS systems. They provided training seminars for the systems they installed. CSCI produced quality work without direct oversight and could be trusted to use their experience to make each project successful. This included handling integration of systems such as, Camera Chameleon and Daktronics (VANGUARD) server and client software; older legacy systems and new technology and providing training.

I would highly recommend CSCI without reservation and be pleased to discuss further details of any of these projects.

Sincerely Yours,
Debra Bieber, PE
Signal System Engineer
City of Chandler