



OKALOOSA COUNTY, FLORIDA FIXED-PRICE DESIGN-BUILD CDM

Okaloosa County needed increased water treatment capacity and new treatment technology to treat future flows. The plant was past its effective life span and had serious odor control problems which generated numerous community complaints, given its location adjacent to an elementary school and residential area. The county determined it needed a new facility in a new location.

CDM was chosen as the design-builder. The 10 MGD, \$50 million Arbennie Pritchett water reclamation facility was built on land leased from the U.S. Air Force in order to be far from the original facility. To facilitate project communication and efficiency, CDM used intelligent 3D design across all disciplines for more than 20 buildings and structures. The project also incorporated 4D design, which integrates a living database into the 3D model by linking operations and maintenance manuals, a computerized maintenance management system, and process monitoring and control



software. This intelligent process and instrumentation database was used as the single source of data from which the design of the facility was developed.

Construction was completed on time and on budget due to timely completion of complex designs and a collaborative environment with real-time technical and visual data. In addition, the design-build approach streamlined the aggressive project schedule, allowing final design to be completed in 5.5 months and producing a seamless project delivery.

