



## Federal

CEMS Engineering | Architecture offers a comprehensive range of design solutions to satisfy even the most diverse federal program requirements. From concept to completion, this team of planning, design, and construction experts works with clients to make visions become reality.

Our philosophy of a holistic, collaborative, and integrated approach brings together all the necessary disciplines from the beginning to the end of a successful project. The CEMS office is viewed as a “communal workroom” for the collaborative efforts of all team members including the client, contractor, and consultants. An aesthetically pleasing exterior, attractive interior, functional floor plan, and a thoughtful combination of building systems are the cornerstones of a quality facility.

CEMS develops designs that incorporate cost-effective solutions, while addressing sustainable architecture and engineering practices that are good for both the client and the community.

### Services Include:

- + Architecture
- + Structural Engineering
- + Civil Engineering
- + Mechanical Engineering
- + Electrical Engineering
- + Fire Protection Engineering
- + Commissioning Services
- + Master Planning
- + LEED Consultation
- + Program management
- + Facility and project programming
- + Request for Proposal (RFP) development
- + Space planning and utilization studies
- + Site planning and analysis
- + Feasibility Studies
- + Building permit drawings
- + Code review/consultation
- + GIS

CEMS Engineering, Inc.

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### **108th Air Defense Brigade Complex Fort Bragg, NC**

Complete site design for a 340-acre new brigade complex to support a Brigade HQ, three battalion HQs, Company Operations Facilities, Dining Facility, six barracks, and four Tactical Equipment Maintenance Facilities. Part of the design was to complete a Life Cycle Cost Analysis to evaluate three HVAC options for the Complex. Complete site design was provided, including site master planning and development of full plans and specifications. Coordinated facility utility services with Centers of Standardization.



### **Addition & Alterations to Auditorium/Base Theater Joint Base Charleston, SC**

Total renovation of and new lobby addition to a circa 1950's 800 seat base theater/auditorium to bring the facility up to current operational, HVAC, electrical, lighting, aesthetic, seismic, and force protection standards. Structural features included reinforcing steel columns and trusses to resist seismic forces and upgraded to new AT/FP standards. Strengthening of tall unreinforced masonry walls with linex to reduce damage due to blast effects was also included. Civil features included new utility services, upgraded of storm drainage system, modification of parking lot and entry drives to meet AT/FP criteria, and erosion/sediment control Best Management Practices.



### **Consolidated Dining Facility MCRD Parris Island, SC**

CEMS provided comprehensive A/E services for preparation of a Design/Build RFP of a 54,605 SF state-of-the-art Consolidated Dining Facility, which can accommodate up to 6,000 patrons in support of the Second, Third and Support Recruit Training Battalions at Parris Island, SC. The facility includes all dining, food production, receiving and storage areas, as well as general spaces for both recruits and permanent party personnel.



### **Multipurpose Machine Gun and Sniper Range Fort Bragg, NC**

CEMS performed all engineering services necessary for this 2 phase, LEED Silver project. Phase 1 – Prepared all plans and specs, including supporting design analysis, cost estimates, etc., as defined by the DD Form 1391 and code 3 effort. CEMS also conducted all charrettes. Phase 2 – Provided full design-bid-build documents for the 1,500 meter, six firing position/lane Multipurpose Machine Gun and Sniper Range with Stationary Infantry Targets (SITs), Moving Infantry Targets (MITs), and Stationary Armor Targets (SATs) in a tactical array with various machine guns; grenade machine guns; and sniper rifles.