

HSW Engineering, Inc. is an integrated earth science and engineering firm providing proactive, innovative, and cost-effective solutions for civil/land development, environmental, and water resource projects.

Incorporated in the State of Florida, with offices located in Tampa, Orlando, Sarasota, and Gainesville, Florida; HSW was founded in 1988 by three professionals with experience in engineering, earth science, and environmental disciplines. Staff members have backgrounds in engineering (chemical, civil, environmental, structural and mining), geology, hydrogeology, soil physics, hydrology, hydrologic (groundwater and surface water) and solute transport modeling, chemistry, ecology, toxicology, GIS, and mapping. All professional and technical staff members, including the principals, maintain focus on their areas of practice and client relationships.

HSW capabilities also include implementation of mitigation measures such as dust control, biological surveys, on-site environmental monitoring, consultation with DPW Cultural Resources, placing sensitive areas off-limits, and providing education briefings for all incoming soldiers. HSW history over the past 20 years has encompassed applications in each area of environmental concern present in range operation and maintenance, including erosion control, water quality, air quality, prevention of metals accumulation, wetlands and habitat protection, and stormwater pollution prevention. We have performed wetlands delineations, reconstructions, and degradation prevention. We have routinely prepared Stormwater Pollution Prevention Plans and have been involved in all aspects of related permit issues, including air quality permitting and water quality investigations.

HSW is a small business firm with access to a Federal Supply Service Schedule Contract from GSA, providing faster and more cost-efficient means to meet our client's needs.



## CONTACT INFO

**Stuart Artman, PE, CGC, LEED AP BD+C**  
sartman@hsweng.com

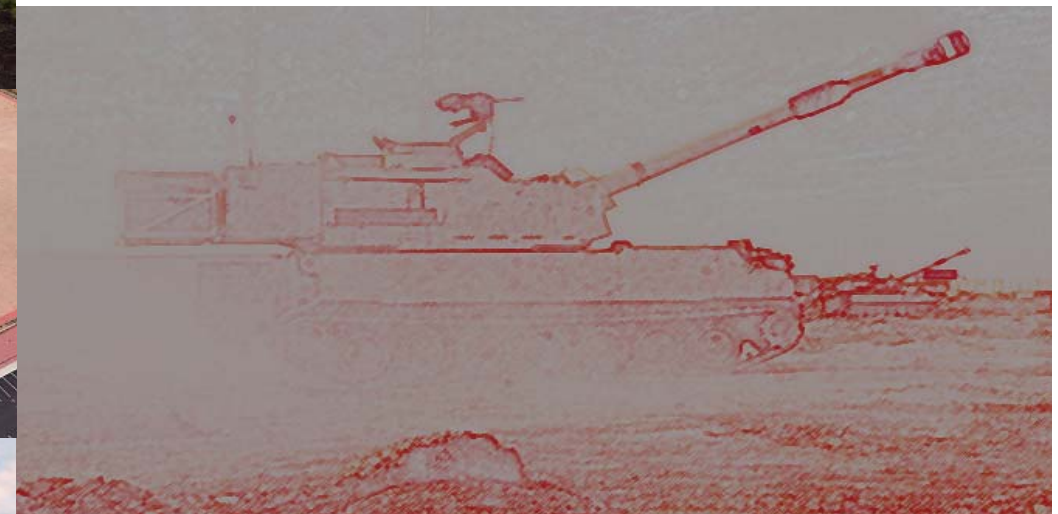
**HSW Engineering, Inc.**  
15711 Mapledale Blvd., Suite B  
Tampa, Florida 33624  
(813) 968-7722

[www.hsweng.com](http://www.hsweng.com)



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MILITARY TRAINING FACILITY DESIGN





**Training Support Center (TSC)**  
Ft. Carson, Colorado



**Combat Pistol Qualification Course (CPQC)**  
Ft. Bliss, Texas



**Infantry Platoon Battle Course (IPBC)**  
Ft. McCoy, Wisconsin

HSW, a 20-year old engineering and science firm with an extensive history of federal facility work, is one of the prime contractors under the Range and Training Land Program (RTLTP) for the US Army Corps of Engineers to provide full-discipline A/E support services CONUS and OCONUS. HSW range design projects include:

- Battle Command Training Center, Ft. Carson, CO
- Training Support Center (TSC), Ft. Bliss, TX
- Live Fire Shoot Houses (LFSH), Two Ranges, Ft. Bliss, TX
- Combat Pistol Qualifications Course (CPQC), Ft. Bliss, TX
- Light Demolition Range Complex (LDRC), Ft. Bliss, TX
- Infantry Squad Battle Course (ISBC), Ft. Bliss, TX
- Convoy Live Fire (CLF), Ft. Bliss, TX
- Urban Assault Course (UAC), Ft. Bliss, TX
- Close Combat Technical Trainer, Ft. Bliss, TX
- 800- Meter Known Distance Range Design-Build RFP, Ft. A.P. Hill, VA
- Infantry Platoon Battle Course (IPBC), Fort McCoy, WI
- Multipurpose Machine Gun (MPMG) Transition Range, Fort Knox, KY
- 1200 Meter Asymmetrical Warfare Group Specialized Range, Ft. A.P. Hill
- Battle Area Complex (BAX), Pohakuloa Training Area, HI
- Combined Arms Collective Training Facility (CACTF), Fort A.P. Hill, VA
- Multipurpose Training Range (MPTR), Fort Indiantown Gap, PA
- Qualification Training Range (QTR) with Combat Pistol Qualification Course (CPQC), Schofield Barracks, HI
- Battle Area Complex (BAX), Schofield Barracks, HI
- Antiarmor Live Fire and Tracking Range (AALFTR), Pohakuloa Training Area, HI
- Squad Defense Range (SDR), Fort McCoy, WI
- Development of Environmentally Stable Range Design Elements and Quality Control Guidance to Reduce Maintenance Requirements on Training Ranges
- IPBC - Camp LeJeune, NC
- Sniper Field Fire (SFF), Scout, LDRC and UAC ranges - Ft. Bliss, TX
- TSC - FY10 Ranges, USACE, Omaha District - Ft. Carson, CO
- SDR, Heavy Sniper Range (HSR), LDRC, and LFSH - FY11 Ranges, USACE, Ft Worth District - Ft. Bliss, TX
- LFSH, ISBC, QTR, IPBC, and KD - FY11 Ranges, USACE, Kansas City District - Ft. Riley, KS
- CLF - Fort Hood, TX
- Special Missions Training Branch (SMTB) Battle Course, Marine Corps Base (MCB) Camp Pendleton, CA
- ANA Training Range Complexes, Herat, Mazar-e-Sharif, Jalalabad, Kandahar, Shindand, and Helmand, Afghanistan



We have a continuous record of success with military projects, specifically those supporting military planning, design, and evaluation of firing ranges and training facilities. Since 2003, HSW has performed range and facility design work under 55 different task orders involving nine Districts and 14 installations. HSW has lead 18 Charrettes to prepare 15% design/DD3086's; lead Charrettes to prepare 12 Project Definition Reports PDRs; prepared five 35% Design / Build packages; completed 31 100% Full Designs; and performed specialty services (R&D, geotechnical, surveying, standard designs) on 35 projects. Our ACASS ratings range from Above Average to Excellent.

Many of our design professionals are trained in MCACES and MII and have experience using PCCost and PAX in the development of PDRs and 3086 estimates. In late 2008, we were given access to PCCost 6 for the development of costs for Project Definition Reports (PDRs) on 11 projects. We are currently using the MII 2010 Cost Book and latest edition of MII on multiple FY11 Range Projects.

In addition, the HSW Team provides a unique blend of expertise in engineering design, environmental compliance, permit acquisition and knowledge of range requirements and military facilities as users, trainers, and developers. HSW has acquired a national reputation for using innovative and streamlined approaches to assess and resolve a broad range of complex engineering and environmental concerns.

*HSW Team design capabilities include:*

- Full Service A/E for MILCON
- Range and Training Land Program (RTLTP) Planning
- DD 1391/DD 3086 Data Submission Packages
- Civil/Site Grading, Drainage, and Range Access/Downrange Trails
- Range Operations Support Buildings
- Power and Fiber Optic Design
- Surface Danger Zone Analysis
- Line of Sight Evaluation
- Environmental Permitting
- Surveying and Geotechnical Investigations
- Innovative Technology Application Analysis
- Sustainable Design Applications
- NEPA Documentation and Investigations
- Cost Estimates (M-CASES and M II)
- Engineering Services During Construction



**Urban Assault Course (UAC)**  
Ft. Bliss, Texas



**Special Missions Training Branch (SMTB) Battle Course**  
Camp Pendleton Marine Corps Base (MCB)



**Close Combat Tactical Trainer (CCTT)**  
Ft. Bliss, Texas