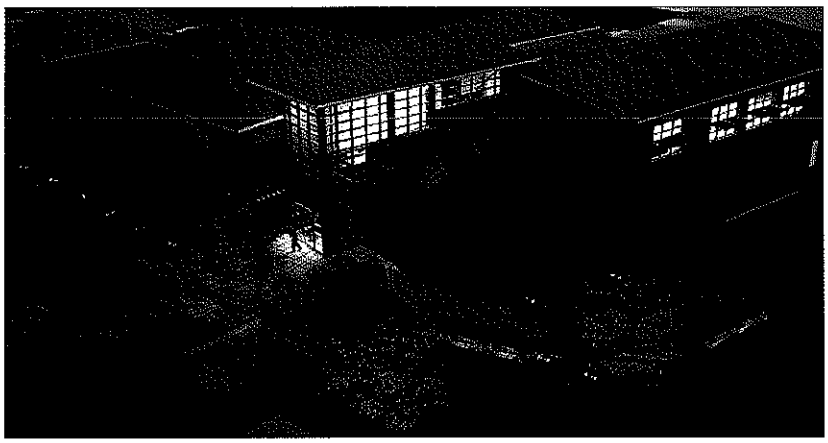
Expression of Interest

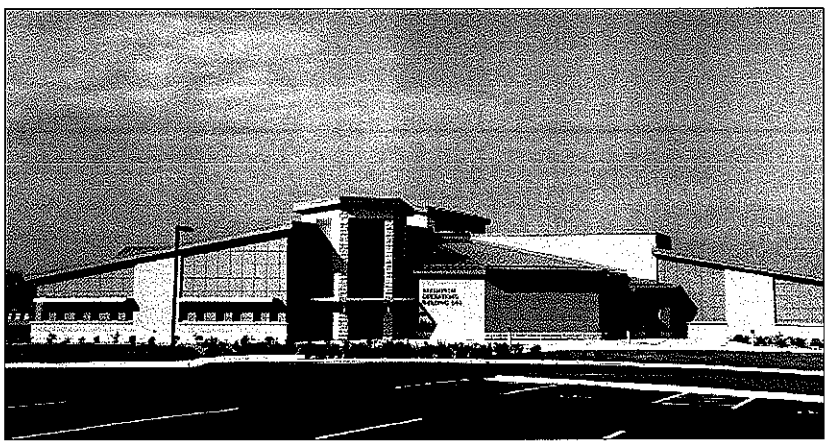
Design of Joint Operations Center

#DEFK11028

West Virginia Army National Guard
Charleston, West Virginia

March 22, 2011





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Joint Venture

March 22, 2011

Ms. Tara Lyle
Purchasing Division
2019 Washington Street, East
PO Box 50130
Charleston, WV 25305-0130

Dear Ms. Lyle:

The Tetra Tech/Mead & Hunt Joint Venture (Joint Venture) is excited to submit our qualifications for your project to design the new West Virginia Joint Operations Facility. As one of the teams holding the national Indefinite Delivery Indefinite Quantity (IDIQ) contract with the National Guard Bureau, we are pleased to be working together again to continue our excellence in client service and facility design for your project. Additionally, RPM Engineers in Charleston recently merged with Mead & Hunt to now offer a greater depth of skills and years of experience as a full-service, full-discipline architecture and engineering design firm. This adds further credibility to our joint venture motto: National in Scope, Local in Service.

The Joint Venture is committed to providing excellent professional services to the West Virginia National Guard. As a team we have been providing services to the National Guard since 2003, while Mead & Hunt has been continuously supporting the National Guard for the past 20 years. Because of the high-quality service we offer our clients, Mead & Hunt has been awarded every follow-on IDIQ contract we have held. This team also currently holds architecture and engineering (A-E) IDIQ contracts nationally and in California, Oregon and Wisconsin.

The following points demonstrate our team's unique qualifications and ability to bring success to this West Virginia National Guard project. We will expand on each within the proposal.

Professional qualifications – Each team member was carefully selected for their expertise, location, and flexibility to meet the demands of this project. Our team is immediately available and capable of meeting the anticipated schedule milestones. With our local office just minutes away, in Northgate Business Park, we are ready to begin immediately and quickly respond to your needs.

Specialized experience – With the "lessons learned" we bring from developing and designing similar facilities, we will work with you to complete this project on budget, on schedule and meet all of your expectations and requirements. Our team is very experienced in project planning, designing, estimating and administering the construction of National Guard facilities. And in order to ensure that the emergency operations aspects of the project have the appropriate expertise, we have engaged Cosentini Associates, a Tetra Tech company. Cosentini brings unparalleled experience in the layout and design of specialized, high-value and mission-critical facilities. And as our projects in this proposal demonstrate, we have broad experience to match your needs – from focused operations facilities to state-of-the-art emergency operations complexes.

Additionally, we have world-class expertise in both force security and energy conservation. Experts from our firms have been dedicated to your project in order to provide these specialties. If blast analysis or renewable energy is required, we have the experience and skill sets committed to you.

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Location and familiarity – In addition to our knowledge of National Guard missions, facilities, and requirements, our local familiarity comes from living and working in West Virginia for more than 25 years. We know the unique requirements of the applicable state agencies, such as the Department of Environmental Protection, and can leverage our experience and relationships with those agencies to facilitate permits, approvals and other coordination as required. Our office is practically around the corner from the West Virginia National Guard State Headquarters, and several of our team members are current or former West Virginia National Guard members.

Our team is committed to you and the success of this project and we are ready to begin immediately. We appreciate your thorough review and consideration of this proposal and look forward to working for you.

Sincerely,
Tetra Tech/Mead & Hunt Joint Venture

Matthew Rathsack, PE
Contract Manager

Jeffrey S. Sorenson, PE, CFM, DBIA
Deputy Contract Manager

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Project approach

The Tetra Tech/Mead & Hunt Joint Venture (Joint Venture) has many years of experience delivering high-quality facilities to our clients. Our approach to this project is a result of more than 20 years of support to the National Guard in various states throughout the country. The Joint Venture's approach encompasses four distinct phases: kickoff, preliminary design, final design, and construction engineering and inspection—all sequenced and built around NG pamphlet 415-5 compliance.

1. Kickoff – Upon selection and notice to proceed, we propose to hold an on-site kickoff meeting with National Guard staff to introduce key team members, determine schedules for the project deliverables, and set objectives and expectations for the successful completion of the design. This is similar to a partnering meeting because our Joint Venture team fully believes in the advantages of teaming, and aims to support our clients' needs and goals through a partnership. The result of the kickoff meeting will be a project management plan, establishing the project team and setting clear project objectives and milestones for success.

2. Preliminary design – One of our first tasks in beginning the design process will be to collect available site and project information including mapping and GIS data, utility locations, and quantities and design criteria. We then propose to facilitate a design charrette with the National Guard and specifically, the future occupants of the Joint Operations Facility.

The charrette process has been used and refined by our team members over the past 25 years. It accomplishes many goals, the most important being the melding of divergent ideas from multiple users and project stakeholders, into one common facility vision. Through early involvement of stockholders and users, the potential for sustainable features to be incorporated into the design is enhanced. We have consistently demonstrated the ability to facilitate a meeting of minds as we clarify project details and what it will take to implement the scope of work. Through this process, holistic alternatives can be discussed and developed with the ultimate goal of meeting the stakeholders' specific requirements in an energy efficient, cost effective and timely manner.

The design charrette process usually takes two to three days. A typical charrette agenda is illustrated below.

- ***Goals and objectives are developed.*** This includes input from stakeholders on their mission, purpose and needs.
- ***Current scope, budget and schedule are reviewed.***
- ***Interviews are conducted.*** This helps flush out space, room finish and equipment requirements.
- ***Concept alternatives are developed.*** This process utilizes information from the interview to create alternatives which includes active participation from the stakeholders to determine a preferred direction.
- ***Eco-Charrette – sustainable design strategies are developed.*** A consensus is determined taking into account alternative approaches and related cost tradeoffs to optimize the environmental/energy objectives of the facility.

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Joint Venture

Project approach

Approach to scope of services

Elements developed during the design charrette include:

Site development plan – A diagram including access roads, landscaping, parking, pedestrian circulation, stand-off distances, utility layouts and points of connection

Floor plans – Single-line plans representing functional requirements typically including definitive area requirements to correspond with the allocated area documented in the 1391 documents

Elevations – Drawings depicting the architectural vocabulary and compatibility with installation design guides or area context

Area tabulations – Tabulations corresponding to floor plan consensus drawings, indicating conformance to standards and authorized square-footage requirements

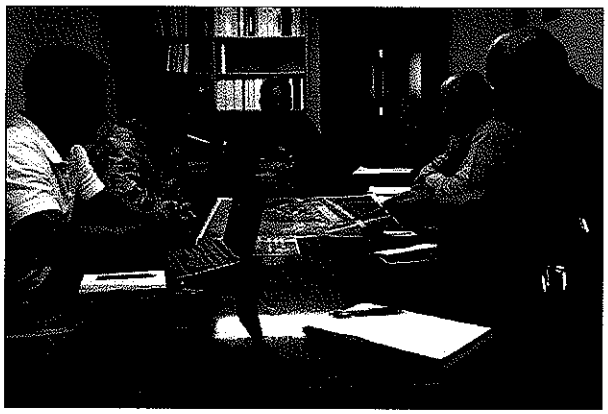
Parametric estimate – A budget taking into account historical facility costs and location factors to verify or establish constraints and compare to DD Form 1391 authorizations

Design criteria and systems narrative – Documents providing assumptions for engineering and cost development

Sustainable design documentation – An outline of prescriptive and performance based goals and requirements, including potential energy conserving features for design development

To enhance and facilitate the specialized design required for your mission-critical facility, we have engaged Cosentini Associates, a Tetra Tech company, because of their highly-specialized expertise with these types of facilities. We will optimize the function of your facility by incorporating their experience with space planning, interior design and integrating audio/video/recording/switching systems for such high-value facilities as:

- Security Command Center, US Department of Homeland Security



- Security Command Center, US Capitol Hill Complex
- Joint Communications Control Center, NASA
- Chief's War Room, US Capitol Police
- Command and Control Center, US Air Force Strategic Air Command

From years of experience designing facilities for the National Guard, we know your facility requirements, allowances, authorizations and design criteria. We find that working with the users and design working groups through a design charrette process facilitates our ability to obtain the desired characteristics of the facility and carry that forward into full contract documents for construction.

The first deliverable following the design charrette will consist of a set of preliminary drawings and specifications, cost estimates and a summary report. This set of drawings will be progress drawings (at the conceptual design level) depicting the site layout including building locations, physical security measures, parking and utilities. Additional drawings will depict floor plans, building sections and elevations. The cost estimate will allow approvals by higher headquarters, with the assurance that the project will be feasible within the allotted budget. The summary report will include narrative descriptions of building systems including structural, mechanical and electrical, as well as physical security considerations and energy conservation opportunities.

TETRA TECH Mead & Hunt Joint Venture

Project approach

Approach to scope of services

Our Joint Venture team has a great deal of expertise with energy conservation and designing US Green Building Council Leadership in Energy and Environmental Design (LEED®)-certified facilities at every level up to and including Platinum. We commit to challenging our team to develop adequate points for a facility that can be certified at the LEED®-Gold level, if you so choose.

Following this initial submittal, we will hold a preliminary design meeting with your staff to discuss desired changes and review proposed resolutions to comments prior to final design development.

3. Final design – Our team of experts is fully versed in translating conceptual documents into complete working plans and specifications, ready for bidding and constructing. Throughout the project we will provide continuous support by communicating with CFMO and user personnel concerning the design of this project. To meet requirements and expectations we anticipate holding several progress meetings to confirm design decisions, gather user input and feedback and coordinate unique requirements, such as special equipment. In addition, our Joint Venture will be available to you throughout the process for project consultation. Our goal is to present a set of documents that clearly demonstrates your intended outcome for the project.

We know the requirements for National Guard deliverables and what it takes to gain concurrence and approval from the National Guard Bureau. The final deliverable will consist of a set of complete construction documents, construction cost estimate and estimated construction schedule. The contract documents will include project technical specifications and drawings to execute the construction of the Joint Operations Facility.

4. Construction engineering and inspection – We are prepared to assist you through the construction phase of the process by providing any level of assistance you may require. From participating in developing the construction solicitation, or making recommendations on contractor selection, to conducting project oversight and inspection, we have capabilities and expertise in each of these areas.

"Mead & Hunt consistently delivers project designs which meet our budgets and has met tight design schedules allowing us to beat funding deadlines."

– Lt Col David Mack
Assistant BCE
USAF ANG 115 FW/CEE

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Joint Venture

Project approach

Project management approach

Project management approach

From years of experience, we know that the right management team is one of the most important keys to a successful project and to your satisfaction. Our Joint Venture team has selected John Eskrich, PE, CPD, LEED® AP, as the Project Manager; and Jamie Bumgarner, MBA, PE, as the Deputy Project Manager. While John will be focused on the technical execution and successful delivery of the project, Jamie will be your direct and local point of contact for all issues. John will be the design team's day-to-day leader. He will know the project's technical aspects and will be responsible for execution of the project, including – its timeliness, finances, technical quality, coordination and success.

Client communication

Jamie will prepare regular progress reports on behalf of our Joint Venture team. He will listen to you to understand your requirements and expectations and work to meet your goals. He will regularly communicate with John on the status of the project in order to be thoroughly versed in all aspects of the work and able to converse with you on any issue at any time.

Internal communication

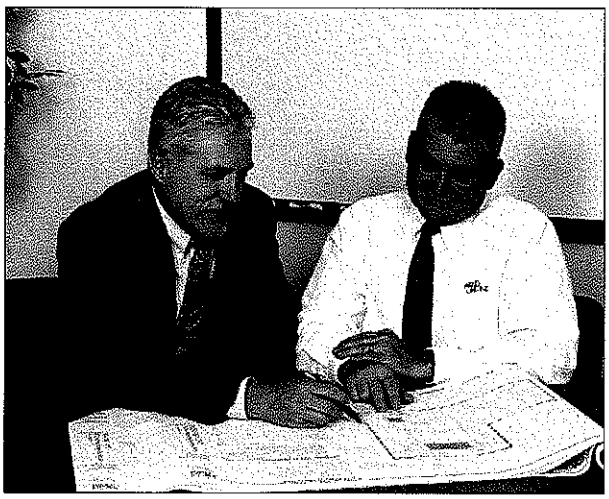
Jamie will communicate all new information from you to the project team. The better informed the team, is the better the end results.

Cost control

John will regularly monitor the current working estimate (CWE) for the project, as compared to the maximum construction cost or construction budget. He will take personal responsibility to see the project is designed in order to be constructed within your budget.

Schedule conformance

John will monitor the design schedule and take necessary measures to meet agreed upon design schedules. These measures include monitoring staffing levels, staffing changes and shifting priorities. He will enlist additional staff, as needed, to meet every commitment.



Quality Assurance/Quality Control (QA/QC) conformance

John will schedule quality control audits as outlined in our QA/QC plan. He will maintain proper filing, coding and maintenance of project documentation in an organized fashion to make it retrievable during and after the project. John will work closely with QA/QC leaders Dan Callan and Jeff Sorenson for quality reviews.

Staffing

As project manager, John will personally maintain adequate Joint Venture staff resources for this project. John will regularly evaluate design quality and timeliness, making staffing additions and changes as necessary to meet schedules and quality expectations.

Subcontractor management

We have years of experience working together. Throughout the execution of this project, John will conduct regular meetings/calls with team members, including our subcontractors, to meet the project objectives, and delivery on time and on budget.

The organization chart and resumes that begin on page 24, in Section 3, further demonstrate what we bring to this project.

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Project approach

Sustainable design

The Tetra Tech/Mead & Hunt Joint Venture is devoted to the principles of sustainable design. Our designers have reduced negative impacts on the environment and improved the health and comfort of building occupants, in addition to improving building performance.

We have provided engineering, design and consulting services for more than 190 LEED® certified buildings and have more than 180 LEED®-accredited professionals in our companies. The LEED®-accredited professionals in infrastructure planning, architecture and engineering have earned TetraTech a national ranking as the 10th greenest A-E firm (*Engineering News Record*, 2010). Additionally, Tetra Tech is one of only two architecture engineering firms included in the Dow Jones Sustainability Index, an index of publicly traded firms dedicated to these principles.

Our proposed Joint Operations Facility design team of architects and engineers is committed to incorporating principles of sustainable design and energy efficiency into your projects. While meeting all federal and state requirements such as EPACT05, EISA07, EO13423, and 13514, these professionals will also endeavor to:

- Optimize site potential
- Minimize non-renewable energy consumption
- Use environmentally preferable products
- Protect and conserve water
- Enhance environmental quality
- Optimize operational and maintenance practices.

With respect to energy conservation, Joint Venture partner Tetra Tech is involved with the management of more than $700 million in federal utility budgets and has programmed projects valued at more than $500 million. The ongoing Energy Resources Efficiency Management (REM) program seeks to minimize the energy use at military installations through in-depth analyses of base infrastructure, local utilities and natural energy conservation or alternatives. The expertise of these professionals, coupled with a strong sustainability strategy for this project, will provide the West Virginia National Guard with an energy-efficient facility that supports emergency operations and mission readiness.

Current LEED® Projects	
Certification level	Quantity
LEED® Platinum	2
LEED® Platinum	2 (pending)
LEED® Gold	25 (pending)
LEED® Gold	15
LEED® Silver	72 (pending)
LEED® Silver	7
LEED® Certified	64 (pending)
LEED® Certified	12

Our professionals provide support to Department of Defense (DoD) energy programs at both command and base levels. In this role we work on-site at military facilities assisting active duty and civilian personnel with energy, water and resource conservation programs. We are currently providing services at 60 DoD sites. Our work at these installations encompasses all aspects of energy management including audits, project development, design, construction management, sustainable design and reviews, project programming, developing SOWs and DoD 1391 forms, commissioning and retro-commissioning, data analysis, quarterly and annual reporting, data presentation, awareness and training, policy and strategic planning and much more.

While legislative and political elements are ever-present, so are fiscal restraints. Utilities are a "must pay" bill and in times of increasing utility costs, budgets rarely, if ever, keep pace. This reality results in other programs having to be cut just to pay the utility bills. We have been successful in helping to develop sound projects, policies and programs to save our DoD clients utility money that can then be put toward mission requirements and other improvements.

TETRA TECH Mead & Hunt
Joint Venture

Project approach

Quality control plan

Quality management organization

We firmly believe quality is a fundamental responsibility of each member of our design teams. Three members of our team will head up our quality management program for this contract:

Project manager – John Eskrich, PE, CPD, LEED® AP, who manages the design of more than 40 National Guard projects per year

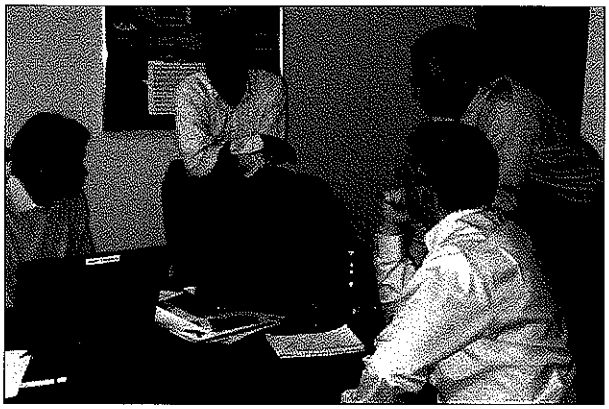
Quality managers –
Jeff Sorenson, PE, CFM, DBIA, Mead & Hunt's Federal Programs Leader, who has more than 25 years of facility and utility design, construction and operations expertise.

Dan Callan, AIA, DBIA, LEED® AP, Tetra Tech's Senior Architect, who has more than 30 years of experience in management and design, and has designed numerous award-winning projects for DoD clients around the country.

Jeff has overall responsibility for establishing quality control procedures for military design projects. His responsibilities include:

- Reviewing established quality assurance procedures and processes for application to each specific project
- Incorporating client quality processes and expectations into the overall program
- Tailoring processes to allow continuous improvement to occur throughout the project
- Organizing and integrating peer and/or quality processes into our overall program
- Reviewing individual projects for completeness and compliance with the contract and client's requirements and/or expectations

Likewise, Dan will review project deliverables, checking for completeness and compliance with the contract and with your requirements and/or expectations.



As the Project Manager, John will maintain day-to-day responsibility to provide the quality deliverables on this project. Our quality program establishes and documents methods to help us meet design requirements. This translates into quality drawings, specifications and accurate cost estimates, with projects built on schedule and budget, and meeting your expectations.

The Joint Venture project quality management process adopts Mead & Hunt's ten-step program:

1. Assessment of initial government provided statement of work and construction cost estimates following a scoping meeting or a criteria review conference (CRC)
2. Peer review within each discipline at each design phase
3. Continual review by project engineer and/or project manager
4. Checks by project manager
5. Checks by quality manager
6. Phase checks prior to client presentation (typically 35 percent, 65 percent, 95 percent and 100 percent)
7. Unofficial client feedback through interim quality reviews
8. Client and/or customer quality, value and overall satisfaction interview visits at each phase during design, construction and after final acceptance
9. Performance review with the CFMO Project Engineer/ Project Manager at distinct milestones and after project completion
10. Post-construction performance review with users to ensure satisfaction and document lessons learned

TETRA TECH Mead & Hunt
Joint Venture

Project approach

Quality control plan

This team approach to management of individual project tasks assists in quickly identifying technical challenges, developing effective solutions and allowing efficient use of available resources.

To prevent over committing our internal resources, the Project Manager will participate in meetings to assess staffing and production needs of ongoing projects, and that the proper level of dedicated staff are committed to your project. Together, the team will review project schedules and design commitments so adequate internal resources are allocated. The Project Manager and QA/QC Managers will review design deliverables for technical compliance, client quality assurance requirements, and budget performance. Whenever necessary, actions will be taken to keep the project on schedule and within budget.

The Tetra Tech/Mead & Hunt Joint Venture has the experience and qualifications needed to successfully perform this project. We have more than 3,000 professional service professionals with an excellent track record of providing quality military projects. Over the past 60 years, we have worked with the Army, the Air Force, the National Guard, and the Army Corps of Engineers. Our team members have planned, designed and constructed projects at military installations nationwide. In addition, we offer one of the strongest local design teams in all of West Virginia. This enables us to tackle your projects, whether big or small.

"Outstanding architecture and engineering! Honest about capabilities and schedule. Works issues through to the end."

-Lt Col Angela Alexander (Ret)
Former BCE, 129 RQW

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Past experience

Our philosophy

To provide the most comprehensive architect-engineer (A-E) services possible, Tetra Tech and Mead & Hunt have formed a joint venture affording an integrated team of professionals with proven experience delivering projects to the National Guard.

The Joint Venture is an extension of our firms' long-term relationship and commitment to grow our National Guard business together. During the past ten years of teaming experience, we have developed a strong understanding of each other and a very successful approach to collectively working projects.

As Joint Venture partners, Tetra Tech and Mead & Hunt are currently supporting the National Guard on IDIQ A-E services contracts for the Wisconsin, Michigan, Oregon, Indiana and California National Guard and the National Guard IDIQ for A-E services throughout the country.

Quality of work

Because of the quality of our work, schedule adherence and cost control, Mead & Hunt has been reselected for every DoD IDIQ contract we've held. Our design team has QA/QC procedures in place which integrate senior experts into each project and include quality control reviews at each milestone prior to submission to you.

Tetra Tech has garnered many awards, commendations and ACASS ratings from DoD clients throughout the world, demonstrating the ability to deliver high-quality technical services on time and within budget. Collectively, Tetra Tech has received 268 ACASS ratings of "Exceptional" or "Very Good." In the past three years, Tetra Tech has received more than 100 commendations recognizing project management and schedule compliance.

Cost control

We constantly monitor estimates. As demonstrated in the table below, we design to your budget. But we also try to maximize the return on your investment. We are here to help you get the most out of your facility for your scarce project dollars.

The following table contains recent results on projects we've designed.

Project	Year	MCC	Bid Results	Remarks
Fresno ANGB Fire/ Crash Station	2009	$2.15 M	$2.14 M	9 OBI awards
Fresno Squadron Operations	2010	$8.52 M	$7.99 M	Base Bid OBIs TBD
Camp Roberts Dining Facility	2010	$2.25 M	$2.01 M	5 OBIs awarded
Moffett Medical Clinic	2009	$2.20 M	$2.15 M	4 OBIs awarded
Meadowview Armory Moderization	2010	$1.50 M	$1.14 M	3 OBIs awarded
Mather AASF Pavement	2009	$1.20 M	$1.17 M	2 OBIs awarded

Schedule adherence

The anticipated delivery schedule for your project is very familiar to the Tetra Tech/Mead & Hunt Joint Venture design team. From our experience in delivering numerous National Guard projects, we commit to deliver the Type A-1 Concept Design by 15 May, 2011, and the Type A-2 Concept Submittal by 15 July, 2011. In fact, these dates mirror quite closely the delivery schedule used for the Squadron Operations Facility project we recently completed for the Fresno ANG Base, California.

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Past experience

Our philosophy

Strategy for sustainability

An excellent indication of past performance is recent and relevant results. The key members of our proposed team recently successfully completed design of a project with similar technical and schedule requirements for the Fresno ANG Base. This project had the following results:

- High quality design (nominated for a 2011 USAF Design Award)
- Successful construction contract award with all optional bid items, within the MCC
- Fast-paced design that met an aggressive design schedule
- Sustainable design requirements met and exceeded (vying for LEED® Gold)

Our sustainable design seeks to reduce negative impacts on the environment, and the health and comfort of building occupants, thereby improving building performance. The basic objectives of sustainability are to reduce consumption of non-renewable resources, minimize waste, and create healthy, productive environments. We are committed to incorporating principles of sustainable design and energy efficiency into all of our design projects. The result is an optimal balance of cost, environmental, societal and human benefits while meeting the mission and function of the intended project. It is our intent that sustainable design will be integrated as seamlessly as possible into the existing design and construction process for this project.

Our success in assisting DoD clients in meeting their energy challenges is exemplified by the number of awards that our clients have won during our partnerships with them. In 2005, programs assisted by Tetra Tech won three out of five Presidential Awards for Leadership in Federal Management that were presented. Overall, our clients have won five Presidential Awards, 12 Federal Energy Management Program Awards, six Secretary of the Navy Awards and four Environmental Protection Agency Greening the Government Awards. We are extremely proud of the honors and positive publicity that have been garnered by our clients during our tenure as active partners in their programs.

Energy conservation and sustainability

Our team has dedicated itself to the principles of sustainable design and is a charter member of the US Green Building Council (USGBC). We are a leader in sustainable design as outlined by the USGBC and we support the DoD in its Sustainable Development Policy.

We were involved with sustainable design before the LEED® program was introduced, and we have been involved with LEED® since its introduction in 1998. Our commitment to sustainable principles is central to our business practices and extends well beyond the LEED® Program.

Dedicated Energy Team

- Working on-site at more than 70 DoD bases
- $700 million in DoD utilities budget
- More than $80 million in energy projects
- Eight Presidential Awards for Leadership in Federal Energy Management
- Eighteen Federal Energy Management Program (FEMP) Awards for energy and water conservation

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Past experience

Our philosophy - recent example

Following is additional information on this team's results on this project related to cost control, quality of work, schedule adherence and sustainability:

Fresno ANGB Squadron Operations Facility

Controlling costs

Project Phase MCC = $8.526 M	Base Bid Estimate	Optional Bid Item Estimates	Total Estimates	Budget Adherence
Type A-1 Concept Proposal	$7.67 M	$0.85 M	$8.526 M	Yes
Type A-2 Concept Design	$7.72 M	$0.81 M	$8.52 M	Yes
Type B-1 CDDM	$7.57 M	$0.95 M	$8.52 M	Yes
Type B-2 Prefinal Design	$7.88 M	$0.65 M	$8.52 M	Yes
Type D-3 Final Design	$7.31 M	$1.19 M	$8.51 M	Yes
Construction Contract Award	**$7.99 M**	**$0.65 M**	**$8.64 M**	**Yes**

Quality of work

The Contracting Officer's Representative (COR), Capt Tim Riley completed an overall assessment of the design team's effort at the end of the project's design phase. This written evaluation is attached for your convenience. Please read the Section 20 Remarks. The COR has used this project's submittal documents as an example of what he expects other A-E firms to achieve in terms of clarity, thoroughness, attention to detail, resolution of previous review comments, coordination between specifications-drawings-technical disciplines and cost control.

"We meet schedules"

Project Phase	Contract Period	Actual Delivery	Schedule Compliance
Type A-1 Concept Proposal	45 Days	43 Days	Yes
Type A-2 Concept Design	30	28	Yes
Type B-1 CDDM	120	119	Yes
Type B-2 Prefinal Design	90	81	Yes
Type B-3 Final Design	21	20	Yes
TOTALS	**306**	**291**	**Yes**

Sustainability

The Fresno ANGB Squadron Operations Facility was designed to LEED® Gold requirements by integrating the following design elements:

- Daylighting for non-classified areas
- An affordable yet highly insulated building envelope
- High-efficiency HVAC equipment and systems
- High-efficiency lighting and appropriate controls
- Segregation of HVAC systems by occupancy schedules
- Use of instrumentation and verification methods to control and monitor building performance
- Water conservation with low-flow fixtures and native landscaping
- Locally manufactured and procured building materials throughout
- Photovoltaic panels (as bid options)
- Requirements for commissioning and retrocommissioning

Summary

The Joint Venture design team can deliver a high quality Joint Operations on your aggressive schedule and budget. We have the staffing expertise and depth to meet your technical and schedule requirements. On the following pages we have included a recent performance evaluation for the previously mentioned work on the Fresno ANGB Squadron Operations Facility.

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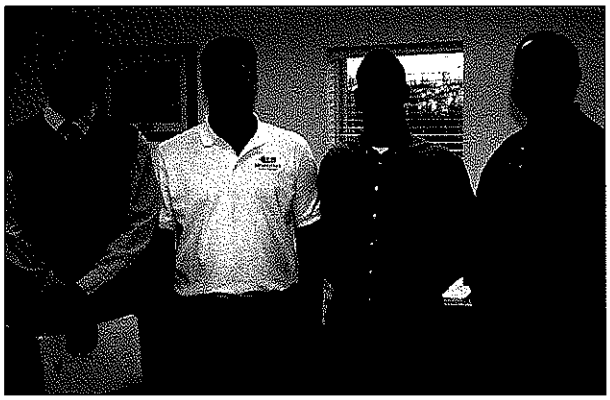
Past experience

Why Mead & Hunt?

Why select the Tetra Tech/ Mead & Hunt Joint Venture?

Our office's proximity to the West Virginia National Guard State Headquarters, brings an understanding of the area and its challenges. Our team also has a long-standing relationship with the National Guard, which stems from the more than 20 years Mead & Hunt has held indefinite delivery/indefinite quantity (IDIQ) contracts with the National Guard. We understand the needs and requirements associated with projects through the National Guard. Our military design teams are focused exclusively on military projects and our business thrives on providing the National Guard the highest quality of engineering services.



"While working directly for State of West Virginia's Cabinet Secretary of Commerce, I serve as the project lead (for the WV Department of Commerce) on the $126 Broadband Grant for the Governor's Executive Office, State of West Virginia; thereby, I have direct knowledge of RPM and Ms. Teresa Schuller and their performances. On this project, they are required to frequently coordinate with federal and state agencies. In this role, their efforts are superb. Their knowledge of the NEPA project is the single most direct cause for WV to receive full grant funding within the next several months. Unequivocally, I can state that this company and their employees are exemplary in every fashion. Deadlines are met. Work performed is quality. Honesty and integrity is their standard. I highly recommend this company for any work that falls within their areas of expertise."

– Michael L. Todorovich, Deputy J3, Continuity
Lieutenant Colonel (Ret), WV National Guard

Experience – The Joint Venture team is staffed with architects, engineers, scientists and planners with extensive National Guard expertise. We are nationally-recognized especially in the area of military facilities. We have designed numerous operations complexes and facilities around the country and understand the unique technical challenges of such facilities.

Performance – To successfully execute your projects, you need work completed on time, designed within budget, and prepared to meet applicable guidelines and regulations. In the last 20 years, we have delivered military projects on time so they have been awarded in the same fiscal year they have been funded. We have been reselected for every Department of Defense (DoD) IDIQ contract we've held and have had every contract extended to its limit. We have quality procedures integrating senior expertise into each project. Peer and constructability reviews are performed at every design stage. Finally, we are vigilant about designing to your budget and have worked to help provide input on 1390/91 development to have accurate up front programming estimates.

TETRA TECH Mead & Hunt
Joint Venture

Past experience

Similar projects

Communications and audiovisual facility, Truax Field, Air National Guard (ANG) – Madison, Wisconsin

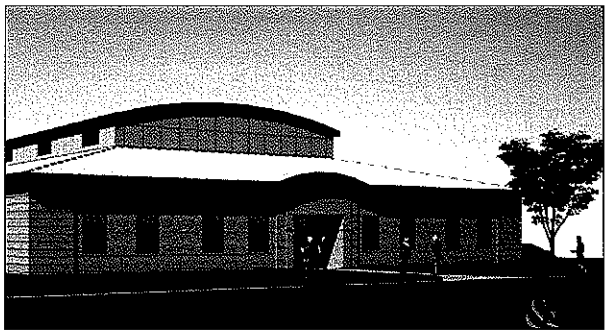
The $5.5 million Communications and Audiovisual Facility is a new building designed to meet the US Green Building Council's Leadership in Energy and Environmental Design (LEED®) Silver Certification for new construction.

The facility is a 13,100-square-foot single-story structure designed to comply with the Department of Defense's (DoD) requirements of anti-terrorism/force protection for military installations. While maintaining the current architectural theme of the base, the facility incorporates modern design trends. This includes the use of architectural precast concrete for the exterior walls of the building and a standing seam metal roof system, which promotes the life of the building up to 50 years without any major maintenance required.

This facility serves the base as the communications distribution center. All tele-communications and networking is routed through the communication's security system for both external connections and internal connections on the base. All top-secret electronic communications are encrypted and decrypted at this facility before being distributed electronically on base or externally. Additional space is provided for computer, telephone, and radio maintenance, a base video teleconferencing center, a multimedia studio and the base's postal service.

Mead & Hunt also designed the facility to provide flexibility for the future. The use of buildings on military installations routinely change use due to reprogramming by the DoD to meet current needs for national security. The building can be renovated with minimal effort and expense to meet future uses or needs of tenants.

Exterior work for this project includes utility access, pavements, fire protection, site improvements, communications systems and other support.



To achieve a LEED® Silver certification, Mead & Hunt focused its efforts on reducing consumption of energy, water, and lighting. The building utilizes high performing building systems that reduce the heating and cooling load by 30 percent over baseline standards, plumbing fixtures that reduce water consumption by 20 percent and automatic lighting controls.

TETRA TECH Mead & Hunt Joint Venture

Past experience

Similar projects

"HIRE THIS FIRM!
Truly an outstanding A/E firm! Although there is no perfect A-E their proximity to flawless execution is noteworthy. Extremely responsive at addressing issues, adhered to an incredibly tight design schedule, and delivered well beyond my expectations. Knowledge of USAF facility requirements, processes, and technical expertise are second to none. Construction bids came in within budget and this project is posed to win LEED® Gold certification. Design sets the Wing standard for LEED® compliance, architectural excellence, and quality of work environment."

- Capt Timothy Riley,
Former Deputy BCE,
Fresno ANGB, California

Replace Squadron Operations Facility, Fresno Yosemite International ANG Base (ANGB) – Fresno, California

Mead & Hunt completed design on this $9.8 million, 23,300-square-foot, building, a centerpiece for the Fresno ANGB, which is designed to LEED® Gold standards. The 144th Fighter Wing (FW) and its subordinate fighter squadron will use this new building for staff training and preparing for flying operational and training missions.

The building also contains several classified areas: the 144 FW Command Post, the 144 FW Intelligence Division, an Aircrew Mission Planning area, a Wing Project Office, three 250-square-foot Aircrew Briefing Rooms and a 40-person Main Aircrew Briefing Room. The building also houses men's and women's Aircrew locker rooms, an Aircrew Flight equipment locker room, Aircrew Flight management offices, the Squadron administrative offices, a visiting pilot's briefing room, the Operations and Weather Center and an 80-person auditorium.

Mead & Hunt provided the project programming, design, contract document and procurement support services for all disciplines on this project. Mead & Hunt is also under contract to provide construction administration services.

This facility required complex (sensitive compartmented information facility (SCIF) and anti-terrorism/fire protection (AT/FP) requirements. Our team utilized BIM 3-D modeling and designed for LEED® Gold certification. Areas of the facility include JAFAN 6/9 secure area, Flight planning, weather, dispatch, training, open and private office space, SIPR, aircrew life support, survival and equipment storage.

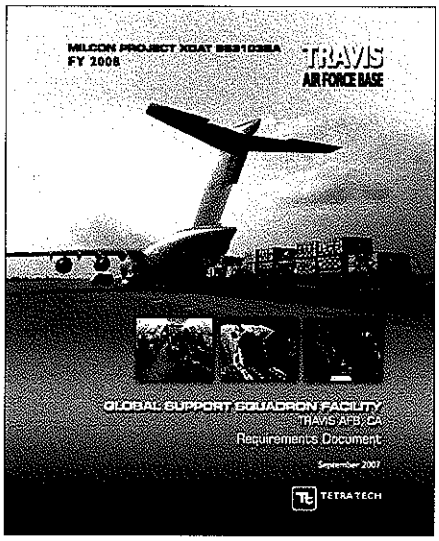
The Fresno ANGB Squadron Operations Facility was designed to LEED® Gold requirements by aggressively integrating the following design elements:

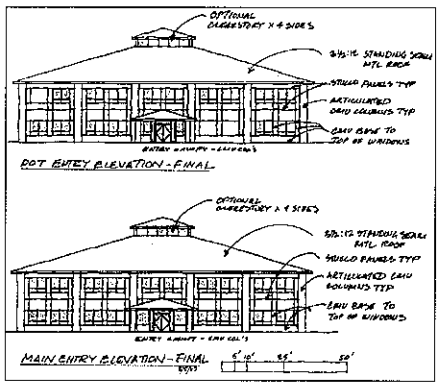
- Daylighting for non-classified areas
- An affordable yet highly insulated building envelope
- High efficiency HVAC equipment and systems
- High efficiency lighting and appropriate controls
- Segregation of HVAC systems by occupancy schedules
- Use of instrumentation and verification methods to control and monitor building performance
- Water conservation with low flow fixtures and native landscaping
- Locally manufactured and procured building materials throughout
- Photo-voltaic panels (as bid options)
- Requirements for commissioning

TETRA TECH Mead & Hunt
Joint Venture

Past experience

Similar projects





Global Support Squadron Facility, Travis Air Force Base, Fairfield, California

Tetra Tech, Inc. as the prime consultant provided comprehensive architectural and engineering planning and design services for preparation of a Requirements Document (RD). Through a series of meetings with the client and user groups, Tetra Tech (and its consultants) developed the RD providing preliminary design options and construction cost estimates for the initial phase and future master planning. The scope of work consists of the construction of a two story structural steel framed Global Support Squadron Command and Operations facility.

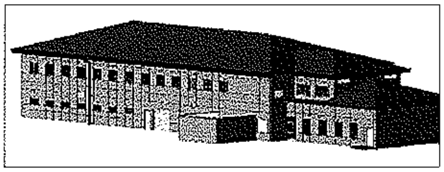
The key elements of the project included the design of a consolidated, operations facility to facilitate effective management and timely deployment of unit personnel and assets. The new campus will support command and control of unit operation, training of personnel, marshaling of Global Ready Laydown rapid deployment forces and preparation of personnel to manage Air Mobility Command's airlift and tanker resources. Global Support Squadron personnel are currently located in eight inadequate and aged storage and operations facilities that are seismically vulnerable; the facilities present a potential risk for mission failure. Unit personnel and mobility assets are widely dispersed throughout the installation causing loss time due to excess handling of equipment throughout the installation.

Tetra Tech conducted a design charrette with representatives from the Air Force and the Navy with the purpose of planning the campus layout including the siting and orientation of the buildings, Anti Terrorism Force Protection measures and the master planning of parking, circulation and utilities. Tetra Tech was able to coordinate the design and phasing of this project with adjacent design projects and provide for the on-going use and access to this building during the future construction phasing of the campus. The project was completed within schedule and on budget.

TETRA TECH Mead & Hunt Joint Venture

Past experience

Similar projects



C-5 Squadron Operations and Aircraft Maintenance Facility, Travis Air Force Base – Fairfield, California

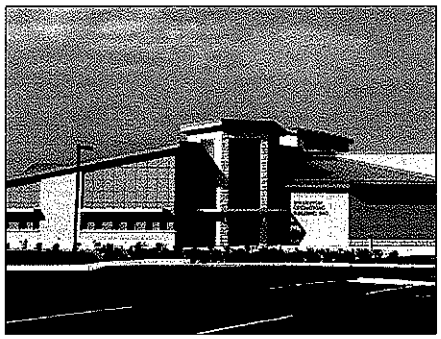
Tetra Tech, Inc., as the prime consultant, provided comprehensive architectural and engineering planning and design services for preparation of 100 percent Design-Bid-Build construction documents for this 19,785-square-foot, $6.842 million facility. Through a series of meetings with the client and user groups, Tetra Tech (and its subconsultants) developed the scoping report for the preliminary phase of the project, and final design options and construction cost estimates for final phase.

This project will construct a two-story facility to support and provide space for flight crews and administrative support personnel along with flight line maintenance personnel for the C-5 Reserves Flying Squadron of the 348th Air Mobility Wing. Space will be provided for mission planning, scheduling, tactics, pilot and loadmaster work space, along with storage and locker room facilities. The facility will be co-located with the Active Duty Flying Squadron Operations in order to enhance integration of the associated missions. The facility will include reinforced concrete footings, foundation, and floor slab, with structural steel framing. Fascias and trim will be constructed in accordance with installation architectural standards. This completed project shall be able to receive a LEED® Silver rating.

Tetra Tech conducted a design charrette and a series of meetings with client and user representatives with the purpose of planning the facility layout including the siting and orientation of the building, building components, AT/FP measures, environmental concerns and the master planning of parking, circulation, sustainable design and utilities. The final Design stage was just completed, with the project now entering the Bid phase. Tetra Tech will continue to support the client during the Bid phase and will ultimately provide construction support. Overall, the Design of this very complex project was completed within schedule and on budget.

Past experience

Similar projects



Squadron Operations Facility, Volk Field Combat Readiness Training Center (CRTC) – Camp Douglas, Wisconsin

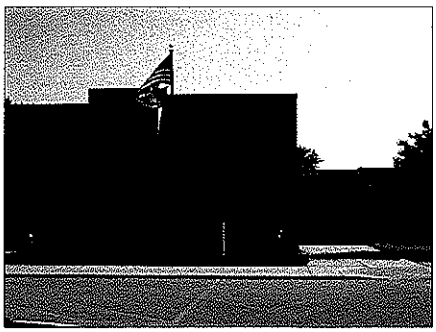
This Joint-Use Squadron Facility replaced three aging, undersized and disjointed facilities. The facility is 14,400 square feet in size and houses the Command Post, Wing Operations Center, Survivability Recovery Center and general command and control functions. These four components, as well as the air crew mass briefing area form the basic components of the facility. The facility is designed to blend with the building colors and architectural styles of the new control tower, squadron operations, RAPCON and fire station.

Because this project was at an Air National Guard-operated Combat Readiness Training Center (CRTC), it was necessary to provide an effectively laid out Squadron Operations Facility to support visiting units and the training mission. Particular attention needed to be paid to the needs of the visiting units to allow for optimum flexibility, durability and ease-of-use. Special security measures were used in the design of the Air Crew Planning Area in order to meet SCIF requirements. A SIPRNET room was provided with RJ45 cable in conduit back to the fiber in the communications equipment room.

Mead & Hunt's ongoing open communication with the CE Department tradesman has allowed for compatible system and integrated base-wide compatibility. The whole facility was designed and sited to meet AT/FP regulations. In addition, the building was sited in respect to the flight line in accordance with the Mead & Hunt-drafted master plan and flight line clearances. In order to help visualize the facility, a 3D rotating model of the facility was created to represent it at the commander's briefing and during the presentation to the Guard Bureau. This model also assisted in the coordination of the building elements by the design team. Burnished block walls in the main corridors and hardened plaster-covered walls in briefing areas were specified to take the abuse of ORIs and OREs. Special consideration was given to circulation areas to accommodate wider doors and hallways for exercises. The HVAC system was designed to be used for smoke evacuation during exercises. The exterior of the facility is made of durable brick, metal wall panels and a standing seam roof.

Past experience

Similar projects



Headquarters Building 500 – Truax Field Air National Guard Base (ANGB), Madison, Wisconsin

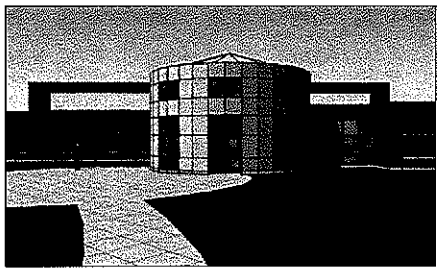
Mead & Hunt was responsible for the architectural, structural, mechanical, electrical, plumbing, fire protection, and special systems (voice/data, audio visual, security, CATV, PA) for this project. The design work included renovation and reconfiguration of the existing facility offices, dining hall, and kitchen including significant upgrades to the mechanical and electrical systems. The mechanical system upgrades include a heat pump/geothermal system to reduce the buildings long term energy consumption. The project construction is divided into five phases to allow the building to operate during construction.

Truax Headquarters Building 500 is a 36,342-square-foot building that was built in 1982 and houses the offices of the Reserve Force Operation Training, Flying Unit; Reserve Forces Medical Training Administration; Dining Hall; and the full time personnel of Services Flight. This includes the Wing Commander and Staff, Support Group Staff, Financial Management, Mission Support Flight, Family Services, Equal Opportunity, Chaplain, Judge Advocate, Safety Office, and Medical Training personnel for physical and dental exams, immunization, and classrooms.

The Air National Guard places significant emphasis on the energy conservation and maintenance in the selection of finishes and building systems. As part of the Bases commitment to reducing long term energy consumption, the base is replacing its existing, traditional central station VAV mechanical system with a central station heat pump VAV mechanical system connected to a geothermal field. The geothermal field consists of 70 wells. The building will be heated and cooled through the new geothermal/heat pump system and strive to achieve greater than a 20 percent reduction in energy consumption of the building systems. When the project is completed the area above the wells will become a landscaped garden and aircraft display in front of the Headquarters office building.

Past experience

Similar projects



Missile Procedures Training Operations Facility (MPTOF) – Minot AFB, North Dakota

The purpose of this project is to provide a consolidated missile training complex of nearly 25,000 square feet to effectively manage and direct missile training operations, including classified training, briefing, and work areas for missile combat crews and support staff. The facility incorporates advanced technology for weapons-systems monitoring and management, with command and control functions paramount.

This project is designed to be LEED® Gold certifiable, and will be submitted to the US Green Building Council for certification. The project is currently registered under LEED® v2.2.

The facility consists of a one-story structure with a steel frame, concrete slab-on-grade, cold-formed steel framed walls, aluminum windows (with tempered glazing to meet force protection criteria) metal roof deck, and non combustible roof materials. The exterior walls are clad with face-brick veneer to match existing Base structures, with composite metal panels utilized at the main entry rotunda.

The facility is Phase I of a two phase project, and will provide space for the 91st OSS, Pre-Deployment briefing rooms, simulators, and warehouse areas for missile feeding operations and non-food storage.

The intent of the design is to compliment the Missile Wing Headquarters facility, which is across Minute Man Drive from the site. The site layout creates a campus setting that allows the two facilities to work well together. The second future phase will provide administrative space for approximately 270 personnel with the three missile squadrons, as well as the 91st Operations Group staff.

Past experience

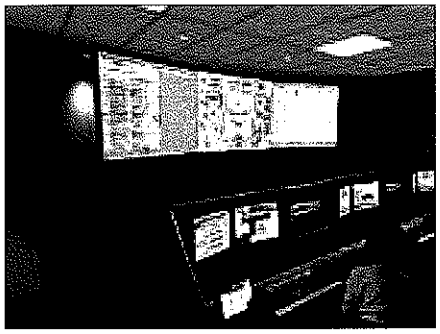
Similar projects

US Department of Homeland Security Headquarters, Security Command Center – Washington, DC

Tetra Tech-Cosentini was contracted to provide design and engineering services for the new Headquarters of the United States Department of Homeland Security (DHS) in the National Capital Region, in Washington DC. The project is the "Security Command Center" for the DHS headquarters campus, which is about 38 acres and includes 34 architectural structures. The requirement was for a very sophisticated perimeter security system with a large number of cameras and various sensor arrays to protect the facility from intrusion or espionage. Various technical subsystems were designed to cumulatively provide complete access control and intrusion detection for the campus, and to provide the means to respond to natural or terrorist threats and events. The Security Command Center's mission is to also interact with other DHS facilities in the National Capital Region and other locations in the case of a regional or national threat condition. Tetra Tech- Cosentini's role was to design and engineer the Mission Critical Command Center facility and systems. We utilized advanced 3D Computer Aided Design techniques to study the Human Factors and Ergonomics and to generate 3D Animated Flythroughs of the facility for DHS and Government Services Agency (GSA) review and approvals. This work included space planning, console design, audio, video, remote control, communications, computer, display, cabling, information technologies infrastructure, equipment room design, and the systems integration requirements for a large number
of subsystems. The command center included state of the art "video analytics" for automated monitoring and response functions, as well as a graphical user interface to aggregate human-machine functions. Included is a digital video recording and switching system, computer network integration, and a high resolution videowall display system, with automated interface to the cameras and video analytics, based on threat conditions and locations of intrusion events. Custom consoles were designed to optimize ergonomics and the management of various displays, radios, computers and other hardware. Secure videoconferencing and audioconferencing were integrated into the system solution, as well as communications links to various government and military agencies. Tetra Tech worked under Northrop Grumman Mission Systems, DHS, and the GSA in the execution of this contract.

Past experience

Similar projects



US House of Representatives, Technology Solutions Operations Center – Washington, DC

The mission of the US House of Representatives Technology Solutions Operations Center (TSOC) is to gather and analyze information related to the "health" of the IT infrastructure (hardware, software, network, data, etc). Also, the facility must identify actual or potential degradations of service and coordinate the actions of appropriate organizations to prevent degradation of services. TSOC will also communicate information about solutions which are not performing up to established service-level objectives to affected House customers and to Chief Administrative Officer (CAO) organizations involved in trouble-shooting reported customer problems, which may be a direct or indirect result of the degraded solution or degraded component of a solution. Cosentini Information Technologies is providing full telecommunications infrastructure design as well as audio-visual systems, which require extensive ergonomic and console design to deliver aggregate data to each console position. Responsibilities include space planning, interior design, and all display, control and integrated electronic systems.

Security Command Center for the United States Capitol Hill Complex – Washington, DC

Cosentini Information Technologies' Audiovisual Group has successfully completed the design, engineering and construction management of the Security Command Center for the United States Capitol Hill Complex. This 1.5 mile by 1.5 mile complex, with approximately 20 million square feet, houses the Senate, House of Representatives, Capitol Building, Library of Congress, Supreme Court, Senate and House Office Buildings and numerous additional federal facilities. Charged with the task of protecting these congressmen, congressional staff and the physical assets of Capitol Hill, the Security Command Center is responsible for physical security including nuclear, biological and chemical warfare response as well as all local, municipal, and national emergencies that relate to the operation of United States Congress and Capitol Hill Complex, at the heart of the federal government. The project includes a wide array of cameras, sensors, detectors, computers, and advanced systems integrated into a state-of-the-art, fully digital, inter-agency command center facility. In addition to engineering design, responsibilities included space planning, interior design, and all display, control and integrated electronic systems. Utilizing photo-realistic, 3D CADD techniques and animated fly-throughs, the design team fully integrated sophisticated ergonomic and technical systems into the architectural space. This "virtual" design process simultaneously applies ergonometric principles and human factors with technology to create the optimum final product. The scope of work included building an interim Command Center during construction.

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Past experience

Similar projects

Chief's War Room/Conference Room – Headquarters, U. Capitol Police, Capitol Hill Complex – Washington, DC

The Chief of Police of the US Capitol Police force is the most senior security officer responsible for the 24/7 security of the Capitol Hill Complex and its occupants, including the Senators and Members of the House of Representatives. With thousands of uniformed officers, a vast array of security systems and subsystems, and an unending series of events and alert conditions, the Chief and his staff must maintain situational awareness and regularly need to engage in tactical and strategic planning. Cosentini Information Technologies' Audiovisual Group was contracted to design, engineer, and oversee the construction of the Chief's space in which many incoming feeds from visual and information assets are provided in a multi-screen configuration. A custom "Graphical User Interface" (GUI) touch screen system was provided to make it simple to access and display any number of computers, cameras, broadcast, and other sources of information. The electronics include high-resolution digital imaging and annotation. Audioconferencing and videoconferencing Communications play a key role in controlling real time events, and this system includes the most advanced means to instantly communicate with his own Security Command Center, as well as other government and military agencies, personnel, command centers, and senior officers located throughout the Complex and elsewhere. Cosentini's work included initial space planning, furniture design, interior design elements, and the integrated audio, video, control, display, recording, and switching systems, as well as the interface to telecom and infotech subsystems. Completion date was May 2004.

Communications Control Center for the Capitol Hill Complex – Washington, DC

Capitol Hill, at the heart of the Federal Government, is one of the most secure and protected group of buildings and personnel assets in the world, utilizing multiple state-of-the-art security systems, cameras, and sensor electronics. As alarms and events occur, trained officers at consoles respond via radio dispatch and other communications to US Capitol Police and other government agencies. At the hub is the Communications Control Center for the Capitol Hill Complex, providing security situational awareness and all of the integrated technologies that aggregate in a 24/7 operational facility. This Control Center is closely coupled to the Security Command Center. Cosentini Information Technologies' Audiovisual Group, was contracted to create the design concept for the new Communications Control Center. A thorough examination of current means and methods and hardware was performed, as well as a "task analysis" to understand the human factors and ergonomics of the complex security systems and processes and information management issues. Our effort culminated in a set of "photorealistic 3D renderings" and a motion animated "flythrough" of the forthcoming new Center. Given the opportunity to provide "space planning" design services, we started with the raw architectural space and conceived the layout, systems technologies solutions, custom consoles, interior design and lighting, creating a well received design package, ready for the final stages of engineering and build. The space is being prepared for the implementation of our approved design.

Past experience

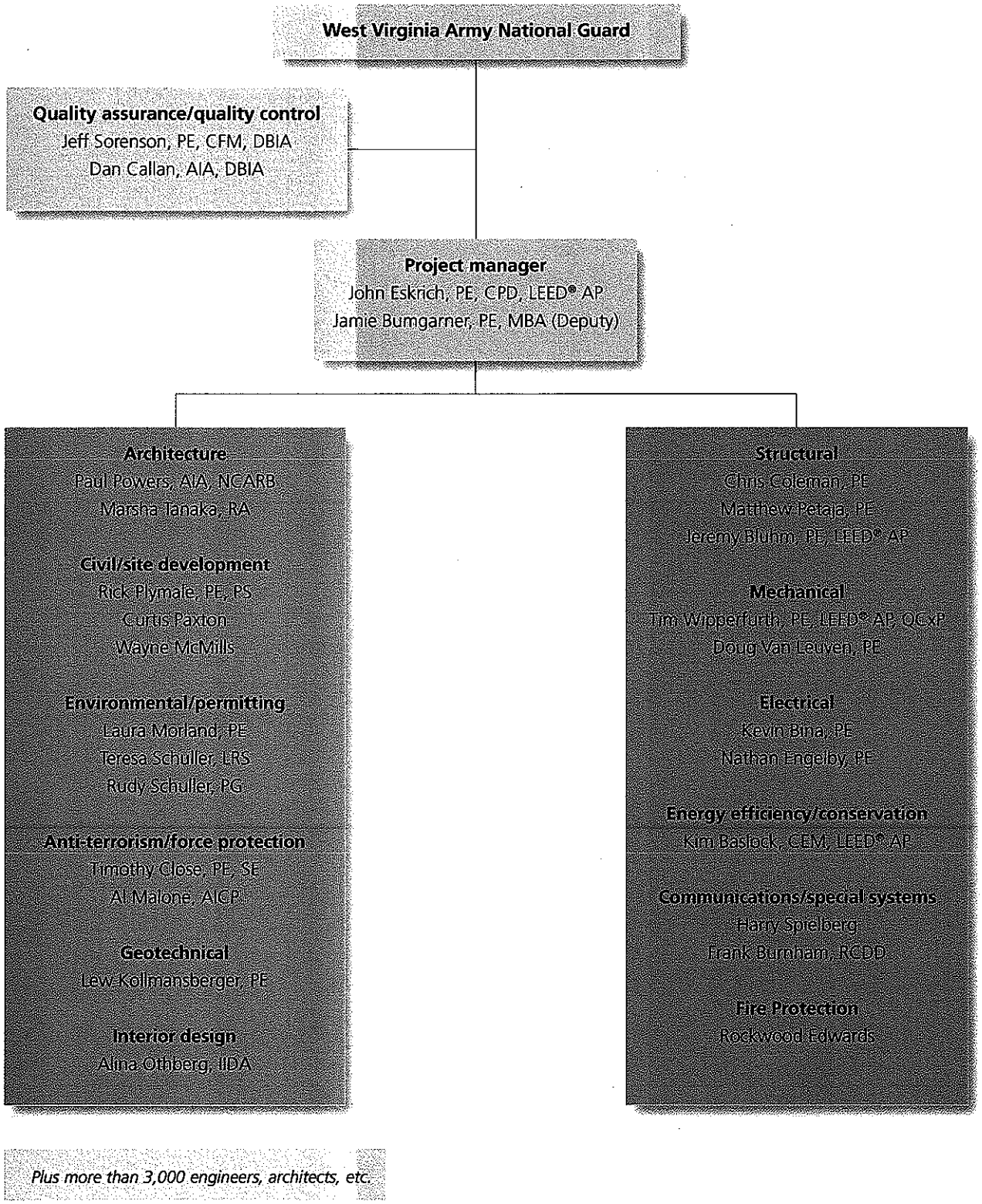
Similar projects

Joint Agency Conference Room, Headquarters, US Capitol Police – Washington, DC

The US Capitol Police, since their inception in the 1800s, have had a mission to protect the Senators, Members of Congress, their staff, the buildings and the land occupied by the Federal Government on the Capitol Hill Complex. In addition to their own staff of thousands, the Capitol Police interface very closely with many other government agencies, engaged in security planning and responses to real events. Cosentini Information Technologies Audiovisual Group has been contracted to design, engineer, and oversee the installation of a new high technology Joint Agency Conference Room, where key personnel from multiple agencies such as Federal Emergency, Emergency Response teams, Intelligence, Security, Investigative, Metropolitan Police, the Military, and agencies, associates, consultants, technologists, officers, and security specialists converge for briefings and planning sessions. After providing the space planning, room layout, and custom table design for the new facility, our team developed the dual-room technical system solutions, which will incorporate and integrate audio, video, computer, conferencing, telecom, LAN, recording, digital video analysis, and other technology systems. Because of the diverse nature of the guests who will use this room and its presentation systems, the graphical user interface touch screen has to be very simple for first time users, but powerful enough to give full access to a large number of visual tools and incoming streams of available information. Since security briefings and planning often use maps and digital images, the display systems allow for high-resolution viewing and real time annotation and printing and sharing of any displayed image. Integrated into the facility are enhanced audio conferencing and videoconferencing systems, with a direct inter-room speech and camera link to other conference and control room spaces. Completion date was November 2004.

Expertise of your team

Organizational chart



Expertise of your team

Resumes

John Eskrich, PE, CPD, LEED® AP
Project manager

Education

BS, Mechanical Engineering, Iowa State University

Registration

Licensed Professional Engineer – Wisconsin
Certified in Plumbing Design – National
Leadership in Energy and Environmental Design (LEED®) Accredited Professional (AP)

John Eskrich has nearly 24 years of experience in project management, mechanical engineering, specifications, field inspection, planning and cost estimating. He specializes in managing multi-discipline professional services projects. His experience is focused in military facilities. Due to the long-term nature of his position, he has been involved in managing facility design projects for all of the following project types: control towers, main gates, weapons training and maintenance, squadron operations, secured storage and briefing areas, readiness centers, vehicle maintenance, aircraft maintenance, aircraft storage, fueling systems, corrosion control, fire training facilities, munitions complexes, troop training facilities, communications facilities, mailrooms, dining halls and small arms ranges. His management experience also includes site infrastructure, utility, GIS, storm water and master planning projects.

John's approach to project design is focused on establishing clear design objectives at the outset of a project to match the client's goals and expectations. He has extensive training in the effective delivery of professional engineering services and uses this training to coordinate a team's expertise and capabilities for our clients' projects.

John's past responsibilities also included designing plumbing, fire protection and fuel systems; preparing drawings and specifications; conducting field inspections and surveys; providing opinions on construction costs; issuing contract documents to governing agencies for review; reviewing submittals; conducting construction observation; providing final inspection and punch lists; and coordinating record drawings for submission to clients.

Related projects

Replace squadron operations facility, Volk Field Combat Readiness Training Center (CRTC) – Camp Douglas, Wisconsin

John was the project manager for this joint-use squadron operations facility. The project included replacing three aging, undersized and disjointed facilities. The facility is 14,400 square feet and houses the command post, wing operations center, survivability recovery center and general command and control functions. Great attention was paid to user input and assuring that the circulation and layout accommodated the exercise functions of visiting units. The building was designed to meet current anti-terrorism/force protection (AT/FP) requirements. In addition, this project incorporated SiperNET and a Sensitive Compartmented Information Facility (SCIF) room in accordance with JAFAN 6/9. LEED® points evaluation and consideration were incorporated. The cost of this project was $6 million.

Addition/Alter Fire Crash Rescue Facility, Truax Field, WI Air National Guard (ANG) base – Madison, Wisconsin

John was the project manager for this project that was a 16,000-square-foot expansion of the fire crash and rescue station at the Dane County Regional Airport for the 115 Fighter Wing at the Wisconsin ANG. The project also included the complete remodel of the existing 8,000-square-foot facility. The station provides structural response and medical first response for the Dane County Regional Airport and the vicinity around the airport. The

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Joint Venture

John Eskrich, PE, CPD, LEED® AP, continued

facility is designed for 24-hour occupation, seven days a week, by a full-time staff of ten firefighters. The project cost $5.2 million.

Addition/Alter Base Civil Engineering (BCE) Facility Building 701, General Mitchell International Airport, WI ANG base – Milwaukee, Wisconsin

John was the project manager for this project that involved a 3,300-square foot addition and 14,400-square-foot alteration of the existing BCE facility (Building 701). This facility supports the base engineering administration, engineering maintenance shops and associated support services. Alterations made to the building included much needed improvements and expansions of staff toilet/locker areas, office, break room and tool rooms. Expansion of the building included the addition of two general assembly multi-purpose classrooms. The cost of this project was $1.8 million.

Addition/alter corrosion control Building 304, General Mitchell International Airport, WI ANG base – Milwaukee, Wisconsin

John was the project manager for this project that involved the conversion of an existing nose dock style hangar (Building 304) to a full KC-135R maintenance hangar which houses the complete aircraft, including the tail section and refueling boom. When construction is complete, the hangar will allow for the full environmental protection of the aircraft to allow for complete inspection, maintenance and repair at an ANG base. This maintenance complex was the third major upgrade or addition phase in the Base Master Plan developed by Mead & Hunt. The project helps the base fulfill its mission requirements in a northern climate. Included was mechanical, electrical, communications systems, HVAC and electrical lighting were updated with more energy efficient systems. This building addition was 7,741 square feet, the alteration was 25,790 square feet and the project cost $3.8 million.

Replace troop quarters, Volk Field CRTC – Camp Douglas, Wisconsin

John is the project manager for the addition of 140 person, two story billeting facility. The facility will be located next to an existing 280 person facility, which is equipped with training rooms and classrooms. Special considerations for incorporating AT/FP requirements in the civil design will resolve existing conflicts with newer regulations and existing facility during the design of this project. Facility is to be LEED® Silver certified.

BCE facility, 133rd Air Lift Wing United States Air Force (USAF) – Minneapolis, Minnesota

John provided the plumbing and fire protection design for a new Base Civil Engineering Facility for the 133 Air Lift Wing - Air National Guard at Minneapolis-St. Paul International Airport. This project consisted of a 25,300-square-foot facility which consolidated all civil engineering functions into one facility. Facility included administration and office areas, training and classroom areas, electrical, mechanical, carpentry, and other related shops as well as material and vehicle storage all in one facility.

Expertise of your team

Resumes

Jamie Bumgarner, PE, MBA
Deputy project manager

Education

MBA, Business Administration, Marshall University
BS, Civil Engineering, West Virginia University
AAS, CADD, West Virginia State College
Certificate in Financial Planning, Florida State University

Registration

Licensed Professional Engineer – West Virginia, Ohio, South Carolina, Maryland, Virginia and Pennsylvania

Jamie Bumgarner brings nearly 13 years of engineering experience to this project. As a project manager, roadway engineer and hydraulic engineer, Jamie has performed various duties associated with the preparation of plans, specifications and estimates for various projects including: drainage design, roadway design, geometric layout, utility relocation design, permitting, plan preparation/presentation and detailed quantity/cost estimates.

Jamie's approach to project management is focused on establishing clear goals at the outset of a project and utilizing thorough and effective communication to align the work of Mead & Hunt with the client's goals and expectations. He has received extensive training in the effective delivery of professional engineering services and uses this training to provide a high level of project management in order to coordinate a team's expertise and capabilities for our clients' benefit. He is a great listener and always strives to understand client desires and expectations and deliver more than required.

Related projects

The Summit Bechtel Family National Scout Reserve, Boy Scouts of America – Fayette County, West Virginia

Jamie was the project manager for the transportation design of this prominent project covering more than 15 miles of roadway design, 17 miles of pedestrian trail design and the design of a 600-foot, five-span concrete arch bridge over a recreational lake. The National Scouting Center, which will also include a high-adventure base and summer camp, the Boy Scouts of America reviewed and decided on a 10,600-acre location atop Garden Ground Mountain, near Glen Jean in Fayette County. The total construction cost for the transportation portion was estimated at more than $30 million.

Cabela Drive Extension, Ohio County Development Authority – Ohio County, West Virginia

Jamie served as one of the lead designers responsible for many aspects of the roadway design and plan development for the preliminary and final design of this project. The five-lane urban collector was designed to connect the new Highlands interior access road to the existing Cabela Drive within the Highlands development near Triadelphia, West Virginia. This 800-foot-long project included grading, drainage, paving, lighting, signing and pavement markings. Combination curb and gutter was used along each side of this five-lane roadway. The project had a total construction cost of more than $500,000.

Cattle Pass Bridge, West Virginia Department of Transportation (WVDOT) – Berkeley County, West Virginia

Jamie worked as the roadway project manager, lead roadway engineer and hydraulic engineer for this bridge replacement project. His responsibilities included completion of the roadway design, construction plan and right-of-way plan preparation, permit documents, the hydraulic analysis using HY-8 and the preparation of a final hydraulic report.

TETRA TECH Mead & Hunt
Joint Venture

Expertise of your team

Resumes

Jeff Sorenson, PE, CFM, DBIA
Quality assurance/quality control

Education

BS, Architectural Engineering, California Polytechnic State University – San Luis Obispo, California
MSE, Construction Engineering and Project Management, University of Texas – Austin
Air Command Staff College, USAF Air University

Registration

Licensed Professional Engineer – Ohio
Certified Facility Manager
Design-Build Institute of America

Jeff Sorenson has more than 25 years of leadership and management experience with large and diverse public and private sector engineering and construction organizations. Jeff is responsible for all military projects coast to coast. He is an innovative thinker and problem solver with the proven ability to formulate strategic plans and translate plans into successful results. Jeff personally gets involved with clients to ensure client satisfaction and other feedback on Mead & Hunt's success in meeting their project objectives. He is conversant in a wide range of disciplines with experience spanning infrastructure and facilities including design and design management and is an expert in federal contracts, policies and procedures, particularly Department of Defense.

Jeff served in a variety of base and command level positions while on active duty with the US Air Force. He has been a Base Closure Officer, Chief of Operations, Chief of Environmental Compliance, Staff Civil Engineer, Instructor, Chief of Readiness, Chief of Design and Design Manager.

Related projects

Replace squadron operations facility, 144th Fighter Wing (FW), Fresno Air National Guard (ANG) base – Fresno, California

Jeff is providing contract and quality management for this project, which is soon to start construction. This $9.8 million, 23,300-square-foot building, a centerpiece for the Fresno ANG base, is designed to LEED® Gold standards. The 144 FW and its subordinate Fighter Squadron will use this new building for staff training and preparing for flying missions. The building contains JAFAN 6/9 and DoD 5200 compliant classified areas: Command Post, Intelligence Division, Aircrew Mission Planning areas, Aircrew Briefing Rooms. Other functional areas within the building are life support, survival equipment, flight equipment locker room, mobility equipment storage, locker rooms, command and administrative offices, visiting pilots conference room and an auditorium.

Consolidated dining facility, Camp Roberts Army National Guard (ARNG) installation – California

Jeff provided contract management and quality control for this project to design an 8,000-square-foot, $2 million commercial kitchen and dining area at a major ARNG training installation. The facility has the capacity to prepare more than 450 meals per session and can seat more than 220 people at a time. The Mead & Hunt design team include in-house architects, civil, structural, mechanical, electrical and storm water engineers.

Vehicle Maintenance Complex, Volk Field – Camp Douglas, Wisconsin

Jeff participated in the design charrette with users and the design team and participated in project reviews throughout the design process. Jeff's primary role was ensuring the quality of the design and constructed facility and that client satisfaction was achieved.

TETRA TECH Mead & Hunt
Joint Venture

Expertise of your team

Resumes

Dan Callan, AIA, LEED® AP, DBIA
Quality assurance/quality control

Education

MS, Architecture
BS, Urban Planning

Registration

Registered Architect – Idaho, Nevada, Washington and Oregon
Leadership in Energy and Environmental Design (LEED®) Accredited Professional (AP)
Design-Build Institute of America

Dan Callan has more than 30 years of experience in all areas of management and design, from site planning, programming and schematic design through construction documents, award of contracts, and construction administration. He has been responsible for the site/master planning and design and renovation of many small and large-scale projects, including housing, administrative and industrial facilities. He is extremely well versed in DoD standards and processes, including the Design-Build delivery method, leadership of Design Charrettes, M-CACES cost estimating, anti-terrorism/force protection (AT/FP), and extensively in quality control management, including the use of DrChecks.

Related projects

Mission Support Center, Building 100 – McChord AFB, Washington

Dan was Principal-In-Charge/Project Manager of this project involving the renovation of the Mission Support Center Building 100, a Headquarters facility, which was formerly a Barracks building on the Historic Register. The administrative office facility accommodates multiple base service agencies as well as the base commanders Headquarters and judicial court. The programming utilization strategy, as well as project phasing was developed utilizing a Charrette process to garner the multiple users requirements The renovation consisted of upgrading existing life safety systems, updating the existing building structure for seismic stabilization, upgrading the existing building envelope to conform to current energy regulations, reviewing requirements for AT/FP measures, and maintaining and refurbishing existing features identified as historically significant. Work also included comprehensive interior design.

194th Regional Support Wing Headquarters, 194th Medical Group and Base Civil Engineering Facility, Camp Murray ANG – Washington

Dan was Principal-In-Charge/Project Manager for this project. Responsible for leading client negotiations, managing project deliverables to meet timely delivery within budget, management of the quality assurance process, and regular communication with the client. The new space consisting of 30,700 square feet provided for training engineers in electrical, structural, plumbing, equipment, surveying, HVAC, vehicle maintenance, food service, and administrative skills. Under a previous task order in 2003, also provided project leadership in the development of a master plan outlining growth strategy for the ANG compound at Camp Murray, a site with numerous constraints. The user needed six new buildings (57,900 square feet) within five years, and two others (47,600 square feet) within ten years. Site plans reflected various building configurations.

Expertise of your team

Resumes

Paul Powers, AIA, NCARB
Architecture

Education

M Arch, Montana State University
B Arch, Montana State University
Engineering studies, Montana Tech

Registration

Registered Architect – Arizona, California, Colorado, Idaho, Illinois, Indiana, Iowa, Massachusetts, Michigan, Minnesota, Missouri, Montana, Nebraska, New Mexico, Ohio, Oregon, Pennsylvania, South Dakota, Texas, Washington, West Virginia, Wisconsin and Wyoming
National Council of Architectural Registration Boards (NCARB) Certified
American Institute of Architects (AIA)

Paul Powers, a registered architect with more than 28 years of experience, leads Mead & Hunt's architecture department and directly supervises architectural projects. A highly-skilled project manager, Paul is responsible for a broad range of professional services including master planning, programming, analyzing existing buildings, space planning, project design, interior design, and the development of construction drawings and specifications. He has completed military and aviation projects across the US.

Paul has specialized skills in contract administration and coordination, integrating engineering services, construction cost estimation, and construction administration. His project experience ranges from aviation to military support facilities, vehicle maintenance and storage facilities; county highway garages, public works, postal, and park facilities; schools and civic services facilities; and corporate and commercial offices. Paul has extensive experience in building design, renovation, rehabilitation, historic preservation, urban revitalization, and urban planning.

Related projects

Replace squadron operations facility 144th Fighter Wing (FW), Fresno Air National Guard (ANG) Base – Fresno, California

Paul is the architect of record on this project. This $9.8 million, 23,300-square-foot building, a centerpiece for the Fresno ANGB is designed to LEED® Gold standards. The 144 FW and its subordinate Fighter Squadron will use this new building for staff training and preparing for flying missions. The building contains JAFAN 6/9 and DoD 5200 compliant classified areas: Command Post, Intelligence Division, Aircrew Mission Planning areas, Aircrew Briefing Rooms. Other functional areas within the building are life support, survival equipment, flight equipment locker room, mobility equipment storage, locker rooms, command and administrative offices, visiting pilots conference room and an auditorium.

Consolidated dining facility, Camp Roberts Army National Guard (ARNG) installation – California

Paul provided the architecture for this fast-track project to design an 8,000-square-foot, $2 million commercial kitchen and dining area at a major ARNG training installation. The facility has the capacity to prepare more than 450 meals per session and can seat more than 220 people at a time. The Mead & Hunt design team include in-house architects, civil, structural, mechanical, electrical and storm water engineers.

Paul Powers, AIA, NCARB, continued

Riverside County Sheriff aviation facility – Riverside County, California
Paul was the principal-in-charge for the $25 million, new sheriff's helicopter storage and maintenance hangar, education center, and aircraft storage and maintenance hangar. Mead & Hunt provided programming, design, construction administration services for the facilities. This project involved development of a 20-acre green field site.

Replace troop training facility #1, Volk Field Combat Readiness Training Center (CRTC) – Camp Douglas, Wisconsin
Paul was the lead architectural designer for a new training center and dormitory facility located at Volk Field. The building was programed at 65,000 square feet and a maximum construction cost of $5.4 million. The building included a 220-bed dormitory, day room and bathroom facilities, laundry and billeting areas, and a large assembly area for multi-use training.

Officers' quarters, Volk Field ANG base – Camp Douglas, Wisconsin
Paul was the lead architect for the renovation of an existing unused building into officers' quarters including new individual sleeping rooms and toilet rooms as well as administrative support areas. This project included the structural repair of the existing building, removal of abandoned fireplaces, an entry addition to match the character of Volk Field and complete interior renovation.

Repair and construct Medical and Dental Clinic, 129 Rescue Wing (RQW), CA ANG, Moffett Federal Airfield – San Jose, California
Paul provided the architecture for the $2.2 million, comprehensive repair and realignment of space within Building 650 for use as a new Medical and Dental Clinic. The facility includes a full-service clinic that is operational and used for training during guard drill weekends with an administrative area utilized daily by full-time personnel, as well as during drill weekends. The work included constructing approximately 11,300 square feet within the 34,200-square-foot building to provide a new medical and dental area, MDG administrative area and support areas. The project included major upgrades to all of the mechanical, plumbing and electrical systems with a new separate entrance and expansion and reconfiguration of the existing parking lot.

Expertise of your team

Resumes

Marsha Tanaka, RA
Architecture

Education

MA, Architecture
BA, Environmental Design

Registration

Registered Architect – Washington

Related projects

Marsha brings more than 25 years experience in the field of space planning and architecture. Her work at Tetra Tech encompasses a wide range of project types including work for governmental, institutional, municipal, industrial, and medical clients. She has been responsible for space planning, programming, development of bid and construction documents, specifications, and construction administration. Marsha has worked on new construction as well as alterations and renovations to existing structures. Marsha has been Project Architect for the Squadron Operations Facilities at McChord Air Force Base (AFB),Fairchild AFB, and Travis AFB and the KC-135 Flight Simulator Facility Addition at Fairchild AFB and two C-17 Flight Simulator Additions at McChord AFB.

Related projects

ADAL C-17 Flight Simulator – McChord AFB, Washington

Marsha was the project architect for this work, which included developing the Requirements Document for the fourth C-17 simulator bay at McChord. The Programmed amount is $5.5 million, the area is 7,600 square feet. It is funded as a fiscal year (FY)2009 project. The previous C-17 simulator bay at McChord, was a FY1993 project.

C-5 Squadron Operations AMU Facility – Travis AFB, California

Marsha was the project architect on this project which included the design of a 19,800-square-foot facility to support the C-5 flying squadron of the 349th Air Mobility Wing.

Eagle View Housing Area, Improve Family Housing – Mountain Home AFB, Idaho

Marsha was the project architect for this Improve Family Housing project involves interior renovation of 12 historical housing units including seismic upgrade, complete interior reconfiguration, replacement of front porches and addition of rear porches for enhanced entry experience.

Squadron Operations Facilities – four at McChord AFB and four at Fairchild AFB, Washington

Marsha was project architect for the operations components in each of these facilities includes command staff, administration offices, flight planning and scheduling, brief and debrief, data storage, training, classroom, and multi-function Auditoriums. Maintenance functions include administration offices, technical libraries, tool storage and issue, ready rooms and locker facilities. WJA refined the Air Force's standard plans to resolve area requirement shortages and create more efficient circulation and utilization of limited space, while maintaining required areas and functional relationships.

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Expertise of your team

Resumes

Rick Plymale, PE, PS
Civil/site development

Education

MBA, West Virginia Graduate College

BS, Civil Engineering, West Virginia Institute of Technology

Registration

Licensed Professional Engineer – West Virginia, Pennsylvania, Florida, Ohio, North Carolina, Kentucky, Georgia and Virginia

Surveyor – West Virginia

Rick Plymale has more than 26 years of bridge and roadway design, site development, surveying and construction inspection experience, ten years of which was acquired while an employee of the West Virginia Department of Transportation (WVDOT). Rick was also responsible for all the transportation projects completed in the Northern Region for RPM Engineers. He has served as project manager on numerous projects, ranging from major four-lane highways and large bridges to bridge inspection projects.

Related projects

Interstate 64, I-64 Eastbound Kanawha River Bridge (approach spans), Steel Alternative, WVDOT – Kanawha County, West Virginia

Rick served as the principal-in-charge and worked closely with the WVDOT, Federal Highway Administration and the prime consultant in preparing plans for this major crossing of the Kanawha River between South Charleston and Dunbar. The design included the curved steel plate girder approach spans for this structure. The West Approach is a 982-foot-long four-span structure and the East Approach is a 210-foot-long simple-span structure. The approach spans were designed with the 2005 Interim (LRFD Curved Girder) from the American Association of State Highway and Transportation Officials (AASHTO) LRFD Bridge Design Specifications.

WV Route 10, Man to Rita, WVDOT – Logan County, West Virginia

Rick served as project manager for the design of a four-mile section of a new four-lane highway near Man, West Virginia. The Man Bridge is a 2,200-foot-long curved, welded plate girder twin structures designed using high performance steel.

I-64 design study, WVDOT – Putman County, West Virginia

As project manager on a five-mile design study for the widening of I-64 from Nitro to Winfield, West Virginia, Rick managed eight structures, one Kanawha River structure and two major interchange designs.

Milton Covered Bridge – Cabell County, West Virginia

Rick was the project manager for the restoration of a historic structure. The project included the design of new foundations and abutments and a complete analysis and design of the historic superstructure.

Hall Bridge, WVDOT – Barbour County, West Virginia

As project manager, Rick led the design of a three-span, prestressed concrete structure for the WVDOT. The structure carries County Route 46/1 over the Buckhannon River.

Peytona Bridge, WVDOT – Boone County, West Virginia

Rick was the project manager for the design of a two-span, steel plate girder structure for the WVDOT. This structure carries WV Route 3 over the Big Coal River.

Expertise of your team

Resumes

Curtis Paxton
Civil/site development

Military experience

Served in the West Virginia Army National Guard- 1092nd Combat Engineer Battalion – March 1991-August 2004, Veteran- Operation Iraqi Freedom- Deployed February 2003-May 2004, Awards- AAM, ASR, NDSM, ARCAM and ARCOM

Curtis Paxton has more than 15 years of experience related to the surveying and AutoCAD field. He has served as survey manager and survey party crew chief on various surveys including boundary, ALTA/ACSM land title surveys, condemnation surveys, West Virginia Division of Highways (WVDOH) design projects, GPS aerial control, topographical, construction and building layouts, wireless communications projects, sewer and waterline extensions, construction layout and topographic site surveys.

Related projects

Design Surveys, West Virginia Department of Highways (WVDOH) – West Virginia

Curtis served as survey party crew chief, project manager and survey manger on a variety of roadway and bridge design projects for the WVDOH. Representative projects include:

- East Huntington Bridge survey
- WV Route 9 in Martinsburg
- Grade Road in Martinsburg
- Flowing Springs Road in Charleston
- Corridor G six-lane upgrade in Charleston

Bridge Surveys, WVDOH – West Virginia

Curtis served as survey party crew chief, project manager and survey manger on a variety of bridge design projects for the West Virginia Division of Highways, Curtis worked on projects such as:

- Leon Bridge
- Edwight Bridge
- Bartley Branch Bridge
- Hartland Bridge

Site Design Surveys – West Virginia

Curtis served as survey party crew chief and survey manager on a variety of site development and design projects for a variety of clients including:

- Thomas Memorial Hospital
- Greenbrier County Hospital
- Gilbert Middle and High Schools
- Tri-State Greyhound Park
- Doddridge County High School
- Princeton Elementary School

Transmission Line Surveys, Rocksprings Coal Company – Wayne, West Virginia

Curtis served as project manager for the site layout and easement plats for the Rocksprings Coal Company. The project extended approximately 3.7 miles.

Expertise of your team

Resumes

Wayne McMills
Civil/site development

Education

BS, Civil Engineering Technology, WVU Institute of Technology

Military experience

West Virginia Army National Guard: Troop B 1-150th ARS- Current member with 20 years military service, Veteran: Operation Iraqi Freedom-Deployed December 2008- January 2010

Wayne has more than ten years of experience as a civil design/survey technician on a variety of projects to include: boundary surveys, ALTA/ACSM surveys, GPS control networks, topographic mapping, construction and building layouts, roadway design and corridor modeling, development of erosion and sediment control plans, site grading and surface modeling and wireless communications projects.

Related projects

East Huntington Bridge survey, West Virginia Department of Highways (WVDOH) – Huntington, West Virginia

Wayne served as a civil/survey design technician on roadway/bridge design projects for the West Virginia Department of Highways. Services included GPS survey reduction, verification of field survey data, property boundary research and survey control networks.

Hartland Bridge, WVDOH – Clay, West Virginia

Wayne served as a civil/survey design technician on roadway/bridge design projects for the West Virginia Department of Highways. Services included GPS survey reduction, verification of field survey data, property boundary research and survey control networks.

Survey design, Boy Scouts of America – Glen Jean, West Virginia

Wayne served as civil/survey design technician. Services included topographic base mapping, alignment studies, roadway design and corridor modeling, construction stakeout and plan production.

Site design projects, Various clients – Various locations

Wayne served as civil/survey design technician on a variety of site design projects. Services included topographic base mapping, boundary mapping, site grading and surface modeling, GPS survey reduction, survey control networks and construction stakeout. Representative projects include:

- Bible Center Church, Charleston, West Virginia
- Tri-State Greyhound Park, Cross Lanes, West Virginia
- Thomas Memorial Hospital, South Charleston, West Virginia
- Princeton Elementary School, Princeton, West Virginia
- WVDEP Offices, Kanawha City, West Virginia
- Fifth-Third Bank (Virginia Street), Charleston, West Virginia

Expertise of your team

Resumes

Laura Morland, PE
Environmental/permitting

Education
BS, Civil Engineering, Purdue University

Registration
Licensed Professional Engineer

Laura has more than 20 years of experience, including 14 years as project manager and team member of surface water and environmental projects. She develops hydrologic and hydraulic models for Flood Insurance Studies, floodplain management plans, stream restorations, bridge replacements, Federal Energy Regulatory Commission (FERC) hydropower licensing and dam safety studies. She is familiar with the most commonly used surface water computer models for quantity and quality. Laura performs calibration and frequency analyses. Laura's experience includes resident engineering services, hydraulic and hydrologic studies/design for storm water and flood mitigation and participation in Environmental Assessments. Projects include a storm water study for the Wisconsin Air National Guard at General Mitchell International Airport (GMIA) and wetland mitigation for the Dane County Regional Airport which incorporated off-site stream restoration. She develops monitoring programs for regulatory compliance. In addition, she has participated in numerous feasibility studies.

Related projects

Hydraulic studies, GMIA, WI Air National Guard (ANG) base – Milwaukee, Wisconsin
Laura performed hydraulic studies to determine a course of action to mitigate the frequent flooding that occurs at the WI ANG's auxiliary facility on the west side of the airport. The project required coordination with GMIA, the Southeastern Regional Planning Commission and Milwaukee Metropolitan Sewerage District. The study included calibration of an historic event with HEC-RAS model, evaluation of potential mitigation and recommendations with cost estimates.

Environmental assessment, Dane County Regional Airport – Madison, Wisconsin
Laura was the project manager for the environmental assessment and preliminary engineering for a $28 million safety area compliance project. The project included developing a comprehensive mitigation plan for more than 30 acres of wetland impact.

Runway Safety Area improvement study, GMIA, WI ANG base – Milwaukee, Wisconsin
Laura served as project manager for a multi-phase project to bring the Airport's two longest runways' safety areas into compliance with Federal Aviation Administration (FAA) standards. Part one was a planning study to identify technically feasible alternatives to bring its three non-compliant runways into FAA compliance. Part two was an environmental assessment to identify a preferred alternative which received a FONSI in 2008. Part three is the design phase. The FAA Great Lakes Region awarded Laura and two other Mead & Hunt staff an Outstanding Environmental Documentation Award for this complex project which includes a substantial public outreach component.

Technical analysis of Lake Michigan water supply withdrawals, US Army Corps of Engineers (USACE), Chicago District – Chicago, Illinois
Laura performed an uncertainty analysis on the water metering systems of ten City of Chicago and five suburban pumping stations. The analyses required identifying sources of error and determining the level of uncertainty of the total volume pumped on an hourly and yearly basis. Project results included investigating back up metering components existed. This project is part of a study by the USACE to simplify the Lake Michigan Diversion Accounting process.

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Expertise of your team

Resumes

Teresa Schuller, LRS
Environmental/permitting

Education

MS, Chemistry, West Chester University
BS, Chemistry, Eastern Illinois University

Registration

Licensed Remediation Specialist, LRS 174 – West Virginia

Teresa Schuller has 30 years of experience in environmental research as well as state and consulting experience. As an analytical chemist, her research has included organic and inorganic compounds fate and degradation in soil, surface water, sediment and ground water. Teresa has also conducted environmental and Occupational Safety and Health Administration training.

She has managed manual preparations that include pollution, prevention and control (PPC); spill, prevention, control and countermeasure (SPCC); spill response and ground water protection plan. She has prepared Regulation 13 air applications for various industries and Title V applications for landfills as well as Tier II and III air submissions for industries. Teresa managed and prepared US Army Corps of Engineers (USACE) permits for a variety of projects while assisting concrete and timber industries with storm water permitting and discharge monitoring report compliance. In addition, Teresa has been responsible for permitting and construction management of housing authority redevelopment projects and an energy sector-compressor station.

Teresa possesses 14 years of experience in applicable risk assessment work, conducting and managing more than 100 various types of risk assessments for industry and PRP committees. Teresa managed, prepared and defended Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and Resource and Conservation Recovery Act (RCRA) risk assessments.

Related projects

Environmental Site Assessment (ESA), Confidential Client– West Virginia

Teresa conducted Phase I ESAs for the purchase of 250- and 280-acre tracts of land in southern West Virginia.

ESA, Boy Scouts of America – Fayette County, West Virginia

Teresa conducted Phases I and II ESAs for an 11-acre sawmill property as part of the purchase for the Boy Scouts of America project. She provided management of the field team, laboratory, driller and asbestos subcontractors.

Site Remediation, West Virginia Division of Highways (WVDOH) – Various locations, West Virginia

Teresa handled site remediation oversight for three WVDOH facilities, including CAP preparation, groundwater monitoring, ORC applications and soil excavation with underground storage tank removals.

Wetland Permitting, Various Clients – Various Locations

Teresa managed wetland permitting and mitigation aspects of projects for commercial and residential developers.

Expertise of your team

Resumes

Rudy Schuller, PG
Environmental/permitting

Education

MS, Geology, Wright State University

BS, Geology, Youngstown State University

Registration

Professional Geologist - Pennsylvania

Rudy Schuller brings more than 33 years of diverse geologic, site remediation, strategic environmental management and regulatory compliance experience in Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), Resource Conservation and Recovery Act, Clean Air Act and Clean Water Act. He has 15 years of experience in environmental consulting and seven years as partner and branch manager with P/L responsibilities, where duties included strategic planning, marketing/sales, budgeting and staff development. Rudy offers a full range of environmental services both locally and internationally for local clients. He has been responsible for meeting the requirements of an Environmental Protection Agency (EPA) Superfund Administrative Order of Consent, with activities including characterization and remediation at more than 240 large facilities and thousands of smaller sites. He also has five years' experience working in environmental research and has served as the manager of 12 engineers, geologists and biologists.

Related projects

Branch Manager, Principal, ERM, Inc. – Pennsylvania and Ohio

Rudy was responsible for staff of up to 15 professionals, including engineers, geologists and scientists serving facilities and corporate offices in western Pennsylvania and northeastern Ohio. Projects included site remediation, site assessments, audits, risk assessments, Resource Conservation and Recovery Act Facility Investigations, industrial hygiene and safety audits and air quality studies.

Superfund, Confidential Client – Pennsylvania, Delaware and New Jersey

Rudy was primarily responsible for the overall direction and project management of Superfund Amendments and Reauthorization Act/CERCLA/Remedial Investigation Feasibility Studies (RI/FS) at Superfund sites in Pennsylvania (three sites), Delaware (one site) and New Jersey (one site) for industrial clients. He was responsible for day-to-day scheduling of up to 20 technical staff, budgeting, reporting and interfacing with both clients and regulatory agencies. Rudy provided geochemical rick expertise to groundwater/soil studies.

Underground Injection Control Program, United States Environmental Protection Agency (USEPA) – Kentucky and Ohio

Rudy served a project manager responsible for projects in the USEPA's Underground Injection Control Program including 40-hour training to EPA technical personnel on groundwater geochemistry and sampling techniques and a major study of surface water impacts from oil/water separators in Kentucky oil field. He was project manager for an RI/FS at a highly-publicized Superfund site in Ohio. Rudy was responsible for day-to-day scheduling of up to ten technical staff, budgeting, reporting and communicating with clients.

Solubility and Behavior of Contaminants, Illinois Geologic Survey – Champaign, Illinois

Rudy conducted research into the mechanisms controlling the solubility and behavior of contaminants from solid and hazardous wastes, groundwater monitoring protocols and the use of lysimeters for studying contaminant behavior in the vadose zone. He participated in the publication and/or presentation of more than 30 papers related to this research. All projects were totally funded by outside agencies.

TETRA TECH Mead & Hunt Joint Venture

Expertise of your team

Resumes

Tim Close, PE, SE
Anti-terrorism/Force Protection (AT/FP)

Education

BS, Civil Engineering, University of Wisconsin
AS, Electrical Power Distribution, District 1 Technical College

Registration

Licensed Professional Engineer since 1989 – Wisconsin, Colorado, Hawaii, Idaho, Illinois, Indiana, Kansas, Michigan, Minnesota, Missouri, Nevada, Oregon and Pennsylvania
Licensed Structural Engineer – Illinois and Indiana

Tim Close has considerable experience in all phases of industrial and commercial projects with responsibilities that include preliminary and final design. He develops plans and specifications and prepares construction cost estimates on rehabilitation, expansion, and new facilities. Tim is responsible for design and construction duties to develop, expand or renovate steel, concrete, masonry, and timber structures. Tim has completed structural design duties for bridge replacement, bridge rehabilitations, industrial manufacturing, food and dairy processing facilities, cold storage and warehouse facilities, and low rise office buildings. He is responsible for code compliance of plans and specifications including wind and seismic capacities. He has had project responsibility for primary structural design and project coordination. Tim's typical duties are preliminary and final design calculations, wind and seismic analysis, and plan and specification development for bidding and construction. He provides shop drawing review, construction coordination/ inspection, technical assessments and report writing, and construction and engineering cost estimates.

Related projects

Addition/Alter Fire Crash and Rescue Facility Truax Field, WI Air National Guard (ANG) base – Madison, Wisconsin

This $5.2 million project was a 15,700-square-foot expansion of the fire crash and rescue station at the Dane County Regional Airport for the 115th Fighter Wing (FW) at the WI ANG. It included the complete remodel of the existing 9,200-square-foot facility. The station provides structural response and medical first response for the Dane County Regional Airport and the vicinity around the airport. The facility is designed for 24-hour occupation, seven days a week, by a full-time staff of ten firefighters. Tim was supervising structural engineer and quality check.

Terminal improvements, Klamath Falls Airport – Klamath Falls, Oregon

Tim provide structural engineering services for this distinctive $1.7 million passenger terminal project. The building's siting and eastern facade with dramatic windows showcase stunning views of the airfield and surrounding environment. Integral to the rustic design of the terminal was the use of local materials. Unique features of the expansion include an enlarged passenger hold room, new security checkpoint and a new elevator to improve accessibility to the second-floor restaurant. Joint meetings of the county, airport, tenant, airline and Transportation Security Administration gained community and operational consensus on the lay-out of the expansion.

Addition/Alter Base Civil Engineer (BCE) Facility, Building 701, General Mitchell International Airport, WI ANG base – Milwaukee, Wisconsin

This $1.8 million project, outlined in the Base Master Plan developed by Mead & Hunt, involved a 3,300-square-foot addition and 14,400-square-foot alteration of the existing BCE facility, Building 701. This facility supports base engineering administration, engineering maintenance shops and associated support services. The existing toilet/locker areas were significantly under sized for female staff. Other areas of the building required upgrades to comply with current building codes. Alterations made to the building included much needed improvements and expansions of staff toilet/locker areas, office, break room and tool rooms. Expansion of the building included the addition of two general assembly multi-purpose classrooms.

TETRA TECH Mead & Hunt
Joint Venture

Expertise of your team

Resumes

Al Malone, AICP
Anti-terrorism/Force protection (AT/FP)

Education

Masters in Community and Regional Planning (MCRP), University of Nebraska – Lincoln, Nebraska
USAF Air War College, Maxwell Air Force Base – Montgomery, Alabama
BS, Architectural Studies, University of Nebraska – Lincoln, Nebraska

Registration

American Institute of Certified Planners

With more than 30 years of experience in aviation, facility management, architectural engineering, and community support, Alan Malone, Colonel USAF (Ret.) is responsible for technical planning and analysis, and report writing for military and airport planning projects. He is also responsible for developing project work scopes and negotiating contracts for planning services. He is involved in client, agency, and public communications and meetings. In his successive positions for the Nebraska Air National Guard in Lincoln, Nebraska, he served as Executive Support Officer, Supervisory Architect, Base Civil Engineer and Civil Engineer. In addition, Alan has six years of experience as an Air National Guard RF-4C pilot and four years of experience as an Air National Guard RF-4C aircraft navigator. His accomplishments in master planning and construction development implementation include the development of two major master plans for the modernization of facilities and infrastructure that have been widely accepted as two of the finest examples of master planning and development in the Air National Guard in the past several years, oversight of the development and construction of more than 40 major facilities at a value of more than $120 million, management of annual budgets of between $1.5 million and $15 million per year, and involvement in the development of large-scale environmental impact statements involving bombing ranges and training areas, and involvement in an ongoing environmental mitigation program. As the base civil engineer, he was directly responsible for all master planning, land use decisions, agency facility agreements, and real estate management. In this capacity, he was responsible for all facility maintenance, construction management, disaster planning and preparedness, fire protection and emergency response, environmental protection and compliance, state contracting and explosive ordinance disposal.

Related projects

Salem Army aviation support facility (AASF) #1 master plan, Oregon Army National Guard (ARNG) – Salem, Oregon

Alan was the project manager for updating the 1999 master plan for the Oregon Military Department's Army aviation support facility complex located at McNary Field in Salem, Oregon. The work includes a new alternative scheme for the site with consideration of it's image and relationship to the neighboring users and streets. Work includes incorporation of SDSFIE Geographical Information System database (Geobase) into reports. The cost of this project was $75,000.

Rotary wing apron charrette, Truax Field, WI ARNG – Madison, Wisconsin

Alan was the project manager for this charrette. The charrette established the needs and requirements to park UH-60 Blackhawk helicopters assigned to the AASF #2. The information will be used to provide design criteria for the architectural and engineering firm selected for design of this project. The information will be used to complete programming documents for the National Guard Bureau. The cost of this charrette was $60,000.

Expertise of your team

Resumes

Lew Kollmansberger, PE
Geotechnical

Education

BS, Civil Engineer, South Dakota State University

Registration

Licensed Professional Engineer – Iowa, Minnesota and Wisconsin
Radioactive Materials License - Wisconsin

As a senior project engineer, Lew Kollmansberger performs civil site design for military, industrial and commercial developments and redevelopments. His design experience includes grading and drainage plans, utility extensions, storm water management plans, erosion control, pavement design, geotechnical engineering and specification preparation. Lew is experienced with government and regulatory agency reviews and permit process and is aware of the importance of communication between the reviewers, the designer, the owner and the contractor. Lew has experience with construction materials such as concrete, asphalt and aggregates and has provided mix designs and geotechnical designs for many types of projects. Lew has supervised and trained technicians and engineers in the areas of soils, materials and civil site design. Lew serves as a primary and assistant instructor for soils and materials testing courses at the University of Wisconsin – Platteville for the Highway Technician Certification Program.

Related projects

Troop training facility, Wisconsin Air National Guard, Volk Field Air National Guard (ANG) base – Camp Douglas, Wisconsin

Lew was responsible for civil site design, including geotechnical earthwork analysis, storm water drainage and pavement design for a new training dormitory facility and parking lot.

Addition/alter Base Civil Engineering (BCE) Facility, Building 701, General Mitchell International Airport, WI ANG base – Milwaukee, Wisconsin

This project, outlined in the Base Master Plan developed by Mead & Hunt, involved a 3,300-square-foot addition and 14,400-square-foot alteration of the existing BCE facility, Building 701. This facility supports base engineering administration, engineering maintenance shops and associated support services. The existing toilet/locker areas were significantly under sized for female staff. Other areas of the building required upgrades to comply with current building codes. Alterations made to the building included much needed improvements and expansions of staff toilet/locker areas, office, break room and tool rooms. Expansion of the building included the addition of two general assembly multi-purpose classrooms. The project cost $1.8 million.

Replace squadron operations facility Volk Field Combat Readiness Training Center (CRTC) – Camp Douglas, Wisconsin

Lew performed quality assurance for utilities and site grading design for the a new squadron operations facility. The new facility is 14,400 square feet in size and houses the command post, wing operations center, survivability recovery center, and general command and control functions. These four basic components and the air crew mass briefing area, form the basic components of the facility.

Addition/Alter Communication Facility, Building 313, Volk Field CRTC – Camp Douglas, Wisconsin

This 1,711-square-foot, $1.3 million addition to the north-center portion of Building 313 involved extensive interior remodeling to provide spaces that better support the needs of the facility occupants. New light gauge metal roofs trusses over the upper and lower center roof area were installed, supported by a rigid frame structure. In addition, a standing seam roof system was installed over the entire new and existing roof slopes. Lew was the project manager for all civil infrastructure and geotechnical investigation.

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Expertise of your team

Resumes

Alina Othberg, IIDA
Interior design

Education
BS, Interior Design

Registration
National Council for Interior Design Certification

Alina Othberg has worked collaboratively in all phases of the design process, participating with multi-disciplined teams to create highly performing environments for government, office, training, hospitality, medical, education and housing uses. She excels in solving problems for the client through investigative programming, efficient space planning, sustainable design principles, and by designing building interiors in complete coordination with architecture and building systems. Her selections for materials, finishes and color schemes evoke the goals of the project. She works in collaboration with the client, builder and design team to design facilities that promote the health, safety and welfare of occupants and visitors.

Related projects

Whole Barracks Renewal Design-Build FY2004, FY2005 and FY2006 – Fort Lewis, Washington

Alina provided structural interior design and furniture, fixtures and equipment design services. Program elements include new barracks, dining, company administration, battalion headquarters and brigade command and control complex for North Fort Lewis. WJA's design includes distinctive architectural treatment to distinguish each separate brigade area and establish a sense of unit integrity. The fiscal year 2004 projects are designed and meet LEED® Silver rating, and fiscal year 2005 project designed to achieve LEED® Gold criteria for sustainability.

Global Support Squadron Facility – Travis AFB, Fairfield, California

Alina was the interior designer on this project which included comprehensive architectural and engineering planning and design services for preparation of a Requirements Document (RD). The project involved constructing a new Global Support Squadron Operation facility. The scope of work consists of the construction of a two story structural steel framed Global Support Squadron Command and Operations facility. The new campus will support command and control of unit operation, training of personnel, marshaling of Global Ready Laydown rapid deployment forces and preparation of personnel to manage Air Mobility Command's airlift and tanker resources.

Operations & Maintenance Complex – Mountain Home AFB, Idaho

Alina provided structural interior design and furniture services. The project consists of two new buildings integrated with an existing squadron complex, supply and services building of 11,092 square feet, and vehicle maintenance facility with second-story administration space of 29,474 square feet. Received 2006 SAME Award (Silver) for Design Excellence. Recipient of 2007 ACC Design Awards, demonstrating outstanding commitment to the achievement of excellence in Air Combat Command facility design and construction.

Rehabilitation of the Fort Lewis Museum – Fort Lewis, Washington

Alina provided structural interior design services for the renovation of World War I –era structure listed on the National Register of Historic Places. The 46,930 square foot, three story structure required extensive work including repairing and rehabilitating the exterior envelope, adding an elevator to facilitate wheelchair access, expanding museum display areas on the second floor, and converting the third floor into space for classrooms and additional offices. In addition, the project included preservation and replication of three rooms' interior finishes depicting differing points in the history of the building.

TETRA TECH Mead & Hunt
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Expertise of your team

Resumes

Chris Coleman, PE
Structural

Education

MS, Structural Engineering, University of Louisville
BS, Civil Engineering, University of Louisville

Registration

Licensed Professional Engineer – Arizona, Kentucky and Indiana

Chris Coleman is a structural engineer, project manager, and discipline leader of the Structural-Architectural group with more than 14 years of design experience in steel, concrete, masonry, and wood structures. His experience includes industrial and automotive facilities, municipal, commercial, health care, government, and multi-story structures in the high seismic zones in the Central US. He has also participated in forensic investigations related to structural failures, inspections of civil works projects related to levee and flood protection systems. He also has experience utilizing STAAD Pro, Ram Frame, ADAPT Floor Pro & PT, AutoCAD, Microstation, and Microstation Triforma Building (Architectural and Structural BIM), and Revit.

Related projects

Homestead Sim. Bay + Bldg. 191 Upgrade – Homestead Air Rreserve Base, Florida

Chris was lead structural engineer for a 14000-square-foot flight simulator building. The structure is a single story structure with load bearing CMU walls and open web steel joists located in the hurricane zones of south Florida.

Weapons System Support & Training Facility, Detroit Arsenal – Warren, Michigan

Chris was the lead structural engineer for a new 30,000-square-foot multi-roof height maintenance and training facility. The project includes a 30 ton, 77 foot span bridge crane, a 5 ton 40 foot span bridge crane, high capacity slab on grade, and conformance to anti-terrorism/force protection (AT/FP) requirements.

MacDill Security Forces Building – Tampa, Florida

Chris was the lead Structural Engineer for the design of a two story building that is an expansion to an existing building. The structure incorporated CMU load bearing walls and an auger cast deep foundation system. Design challenges included hurricane forces, force protection analysis, and expansion of an existing structure.

Building 4484 Addition, Redstone Arsenal – Alabama

Chris was the lead Structural Engineer for the design of a 5000 square foot second story addition to an existing one story building. The structure consisted of steel moment frames and steel bar joists. Design challenges on this project included securing the new frame to the existing structure and analyzing the existing building for the increased gravity and lateral loads.

Blue Grass Army Depot – Richmond, Kentucky

Chris was structural engineer for the foundation design of a 28,000-square-foot metal building warehouse. In addition, this project was used as an internal pilot project for a building information model (BIM) utilizing Microstation's Triforma Software.

Three Story Elevator and Entry Structure – Wright Patterson Air Force Base, Ohio

Lead structural engineer for a major building renovation of the Alter Graduate Education Facility. The facility included an elaborate three-story entrance addition with an elevator and stair tower, a canopy addition, interior elevator, and large roof top HVAC units. The entrance structure was designed to meet government anti-terrorism and progressive collapse avoidance requirements.

TETRA TECH Mead & Hunt Joint Venture

Expertise of your team

Resumes

Matthew Petaja, PE
Structural

Education

BS, Civil Engineering, University of Louisville
MENG, Civil Engineering, University of Louisville

Registration

Licensed Professional Engineer – Kentucky, Texas, Tennessee and Utah

Matthew has more than 13 years of experience in project management and structural design of various types of buildings and infrastructure. His structural experience include: educational, recreational, religious, commercial, telecommunication, Department of Defense (DoD), industrial facilities, water and wastewater treatment facilities and civil works. In addition, Matthew is proficient with BIM technology utilizing Revit software.

Related projects

Bellefonte Army Reserve Center - Louisville Corps, Baltimore Corps – Bellefonte, Pennsylvania

Structural engineer of record for the preparation of bid/build documents for a 58,000-square-foot ARC/OMS/UHS. Project included one story buildings framed with infill CMU/steel frame and metal building frames with metal roof deck over bar joists and built-up steel trusses. Project Highlights: Blast design software, SBEDS, from the Protective Design Center, Omaha District, was used to design the building window frames and supporting structure.

Wausau Army Reserve Center, Louisville Corps, Omaha Corps – Wausau, Wisconsin

Structural engineer of record for the preparation of bid/build documents for a 58,000-square-foot ARC/OMS/UHS. Project building shell consisted of Precast concrete wall panels and a steel frame supporting a metal roof over metal trusses. The construction schedule was accelerated by three-months without cost over runs.

CACTF US Army, Louisville Corps, Baltimore Corps – Fort A.P. Hill, Virginia

Structural engineer of record for the preparation of bid/build documents for an urban assault course and combat pistol range.

Building 3700 Renovation, US Navy, Marine Corps Logistic Command – Albany, Georgia

Structural engineer of record for the preparation of bid/build documents for a renovation of a three-story, 200,000-square-foot office facility. The building required new stair and elevator tower.

Pohakuloa Training Area, PTA – Training Range, US Army, Louisville Corps, Honolulu COE – Hawaii

Structural engineer of record for the preparation of bid/build documents for a live firing range. The project included several one and two story range buildings framed with load bearing CMU and wood/steel trusses.

New Century Army Reserve Center - Louisville Corps, Kansas City Corps – New Century, Kansas

Structural engineer of record for the preparation of design/build documents for a 58,000-square-foot ARC/OMS/UHS. The project used precast sandwich panels with inlayed thin brick and Loadmaster roofing system over metal trusses. Project Highlights: The Training building facility did not meet the Anti-Terrorism/Force Protection, stand off distances thus a blast design was required along the north building end. Construction site visits were conducted as part of the design/build requirements.

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Expertise of your team

Resumes

Jeremy Bluhm, PE, LEED® AP
Structural

Education

BS, Civil Engineering, University of Wisconsin – Platteville
MS, Civil Engineering, University of Wisconsin – Madison

Registration

Licensed Professional Engineer – Idaho, Indiana and Wisconsin
Leadership in Energy and Environmental Design (LEED®) Accredited Professional (AP)

Jeremy Bluhm's primary experience is in the layout and design of reinforced concrete, masonry, steel, and wood structures. He is experienced in the analysis and design of gravity systems, lateral resisting systems, and foundation systems. Bluhm has completed blast analysis reports and anti-terrorism/force protection (AT/FP) designs on projects.

Jeremy's design experience has included industrial, institutional, and municipal projects that involved new construction, additions and renovations. He has experience with military facilities, including munitions bunkers, vehicle storage buildings, troop quarters and operations buildings. His other experience includes construction administration involving evaluation of equipment and material submittals, site visits, coordination of meetings and final project closeout.

Jeremy's responsibilities include meeting with client representatives to determine project needs, completing preparation of project bid documents, providing opinion of probable construction costs and coordinating work with other disciplines.

Related projects

Construct communications facility, Building 505, Truax Field, WI Air National Guard (ANG) base – Madison, Wisconsin

Jeremy coordinated structural design efforts for this 14,400-square-foot facility that is the hub for all telecommunications cabling routed throughout the Base and include support personnel and office suites to replace small separated facilities. The project is seeking LEED® Silver Certification. The cost of this project is $5.4 million.

Addition and alteration (ADAL) fire crash and rescue station, Truax Field, WI ANG base – Madison, Wisconsin

Jeremy provided structural engineering for the renovation of an existing 9,200-square-foot building. This project added a total of 15,700 square feet of new space. The new structure is constructed of masonry walls and structural steel supporting a precast concrete plank roof over the living area and long span bar joist and metal deck roof over the apparatus bay area. The lateral system is made up entirely of masonry shear walls, and all foundations are shallow strip and spread footings. AT/FP requirements were incorporated, including steel frames around window and door openings. This project cost $6.4 million.

Joint security forces facility, Selfridge ANG base – Mt. Clemens, Michigan

Jeremy provided structural, foundation and AT/FP design services for this joint security forces facility project. Structurally, the building is comprised of a bar joist roof system supported by structural steel beam and column moment frames. The foundation includes grade beams over drilled piers and concrete caps. The joint security mobility storage building is a 12,000-square-foot pre-engineered metal building. The foundation for this structure is comprised of shallow strip and spread footings. The real challenge was designing an AT/FP compliant facility next to an existing main road that could not be located

Jeremy Bluhm, PE, LEED® AP, continued

and work within the outside shell of a SHPA historically registered facility. Jeremy lead the effort to meet these demands.

Addition/Alter Base Civil Engineering (BCE) Facility, Building 701, General Mitchell International Airport, WI ANG base – Milwaukee, Wisconsin

Jeremy provided structural engineering for this 3,300-square-foot addition and 14,400-square-foot alteration of the existing BCE facility. This facility supports base engineering administration, engineering maintenance shops and associated support services. The existing toilet/locker areas were significantly under sized for female staff. Other areas of the building required upgrades to comply with current building codes. Alterations made to the building included much needed improvements and expansions of staff toilet/locker areas, office, break room and tool rooms. Expansion of the building included the addition of two general assembly multi-purpose classrooms. The project cost $1.8 million.

Building 124, BCE administration building Selfridge ANG base – Mt. Clemens, Michigan

Jeremy oversaw the structural design of a new 5,400-square-foot, two-story BCE administration building for the BCE and immediate support staff. The building was designed to fit between and provide access to two existing state historic landmark buildings, which serve the BCE group. The building structural system was comprised of a steel moment frame structure supported by a drilled pier and grade beam foundation. The building included a full height glass curtainwall with backup framing design to meet the government's AT/FP requirements.

Addition/Alter Communication Facility, Building 313, Volk Field CRTC, Wisconsin ANG – Camp Douglas, Wisconsin

This 1,711-square-foot, $1.3 million addition involved extensive interior remodeling to provide spaces that better support the needs of the facility occupants. The new addition was constructed of a light gauge insulated metal stud wall system and a new rigid frame structure to support the new center roofs and the exterior walls. New light gauge metal roofs trusses over the upper and lower center roof area were installed, supported by a rigid frame structure. The exterior wall veneer system is a combination of EIFS and brick, and a new aluminum fascia and soffit system was incorporated in both the new and existing structures. In addition, a standing seam roof system was installed over the entire new and existing roof slopes. Jeremy provided structural engineering for this project.

Renovate operations and training facility building 304, Selfridge ANG base – Mt. Clemens, Michigan

Jeremy provided structural design and inspection services for the complete renovation of the operations and training facility, building 304. This 80-year-old, 30,000-square-foot facility was in need of complete interior renovation, HVAC re-design, and restoration of exterior and roof. Deliverables included project book, drawings, specifications, cost estimates, energy budgets, life cycle cost estimates, and other items required by the ANG Design Objectives and Procedures. The facility was upgraded to meet all current requirements of the DoD AT/FP standards, which included site improvements, explosive blast evaluations, and special reinforcements of the exterior walls. The cost of this project was $4 million.

Expertise of your team

Resumes

Tim Wipperfurth, PE, LEED® AP, QCxP, Mechanical

Education

BS, Mechanical Engineering, University of Wisconsin

Registration

Registered Professional Engineer – Indiana, Michigan, Oregon, Pennsylvania and Wisconsin
Leadership in Energy and Environmental Design (LEED®) Accredited Professional (AP)
Qualified Commissioning Process Provider

Tim Wipperfurth has ten years of experience providing design for building systems, including mechanical, HVAC, plumbing, and fire protection engineering. Tim's responsibilities include coordinating with owners, equipment suppliers, contractors, utilities, and other appropriate parties; performing field investigations, inspections, and testing; preparing construction cost estimates; and providing construction administration. Tim is experienced in incorporating sustainable and energy efficient design into projects.

Related projects

Vehicle maintenance and storage, Dane County Highway Department – Springfield Township, Wisconsin

Tim provided the mechanical engineering for this project. This new maintenance complex needed to provide vehicle storage and vehicle maintenance, long term salt storage and remote vehicle fueling with tracking. The resulting 21,800-square-foot heated vehicle maintenance storage building had a high-bay structure housing 24 vehicles, vehicle maintenance stalls, a wash bay, lubricant storage and an attached single story structure with an office, employee break room, locker room and toilet room spaces. The project also included a separate 13,400-square-foot salt storage building, a covered fueling station, used oil collection equipment, storm water retention and related septic, well, liquid petroleum storage, security fence and access control for this remote facility.

Addition/Alter Base Civil Engineering (BCE) Facility Building 701, General Mitchell International Airport, WI ANG base – Milwaukee, Wisconsin

This $1.8 million project, outlined in the Base Master Plan developed by Mead & Hunt, involved a 3,300-square-foot addition and 14,400-square-foot alteration of the existing BCE facility, Building 701. This facility supports base engineering administration, engineering maintenance shops and associated support services. The existing toilet/locker areas were significantly under-sized for female staff. Other areas required upgrades to comply with current building codes. Alterations made to the building included much needed improvements and expansions of staff toilet/locker areas, office, break room and tool rooms. Expansion of the building included the addition of two general assembly multi-purpose classrooms. Tim was lead engineer with assistance from junior staff to provide project management during construction.

Addition/Alter Communication Facility, Building 313, Volk Field, Combat Readiness Training Center (CRTC), Wisconsin ANG – Camp Douglas, Wisconsin

This 1,711-square-foot, $1.3 million addition to the north-center portion of Building 313 involved extensive interior remodeling to better support the needs of the facility occupants. The addition was constructed of a light gauge insulated metal stud wall system and a new rigid frame structure to support the new center roofs and the exterior walls. New light gauge metal roofs trusses over the upper and lower center roof area were installed, supported by a rigid frame structure. The exterior wall veneer system is a combination of EIFS and brick, and a new aluminum fascia and soffit system was incorporated in the new and existing structures. In addition, a standing seam roof system was installed over the entire new and existing roof slopes. Tim was lead engineer with assistance from junior staff.

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Expertise of your team

Resumes

Doug Van Leuven, PE
Mechanical

Education

BA, Mechanical Engineering, University of Wisconsin
BA, Physics, Lawrence University

Registration

Licensed Professional Engineer – California, Missouri and Wisconsin

Doug Van Leuven has more than 25 years of experience as a senior project engineer. He is responsible for HVAC, plumbing and fire protection design. His project experience includes aviation, education, health care, industrial, laboratory, military, office and vehicle maintenance facilities.

Doug's technical specialization lies in the design and layout of mechanical systems, including steam and hot water boilers, chillers, air handlers, terminal units, fume hood and process exhaust systems, heat recovery, compressed air, gas, storm, waste, vent and water piping.

Doug's responsibilities include preparing project bid documents, cost estimating, scheduling, staff supervision, client coordination, submittal review, construction inspection, commissioning and coordination between disciplines.

Related projects

Consolidated dining facility, Camp Roberts Army National Guard (ARNG) installation – California

Doug provided quality control for mechanical design for this project to design an 8,000-square-foot, $2 million commercial kitchen and dining area at a major ARNG training installation. The facility has the capacity to prepare more than 450 meals per session and can seat more than 220 people at a time. The Mead & Hunt design team include in-house architects, civil, structural, mechanical, electrical and storm water engineers.

Riverside County Sheriff aviation facility – Riverside County, California

Doug was the lead for mechanical and plumbing design for the $25 million, new sheriff's helicopter storage and maintenance hangar, education center and aircraft storage and maintenance hangar. Mead & Hunt provided programming, design, construction administration services for the facilities. This project involved development of a 20-acre green field site.

Repair and construct Medical and Dental Clinic, 129 Rescue Wing (RQW), CA Air National Guard (ANG), Moffett FAF – San Jose, California

Doug was the lead for mechanical and plumbing design for the $2.2 million, comprehensive repair and realignment of space within Building 650 for use as a new Medical and Dental Clinic. The facility includes a full-service clinic that is operational and used for training during guard drill weekends with an administrative area utilized daily by full-time personnel as well as during drill weekends. The work included constructing approximately 11,300 square feet within the 34,200-square-foot building to provide a new medical and dental area, MDG administrative area and support areas. The project included major upgrades to all of the mechanical, plumbing and electrical systems with a new separate entrance and expansion and reconfiguration of the existing parking lot.

Expertise of your team

Resumes

Kevin Bina, PE
Electrical

Education

BS, Electrical Engineering, University of Wisconsin

Registration

Licensed Professional Engineer – California, Colorado, Illinois, Indiana, Iowa, Kentucky, Michigan, Missouri, New Mexico, Oregon, Pennsylvania and Wisconsin

Kevin Bina is responsible for electrical design of military, government, commercial, and industrial projects and for the overall quality control of the electrical portion of electrical designs completed by Mead & Hunt. Kevin has experience in the design of power distribution, emergency and standby generation, lighting, voice/data, public address, fire alarm and lightning protection systems. He is experienced in designing electrical systems for a variety of buildings including airports, military buildings, industrial buildings and vehicle maintenance facilities. He has experience designing whole project electrical systems starting at the conceptual stage and following through schematic design, design development, construction documents and construction services to final punchlist. Kevin also has field experience in construction, troubleshooting, and maintenance of 15 kilo-volt utility distribution systems and their secondary services.

Related projects

Replace squadron operations facility, Volk Field Combat Readiness Training Center (CRTC) – Camp Douglas, Wisconsin

Kevin was the electrical engineer responsible for the quality control of the lighting, power and special systems designs for this new squadron operations facility. The new facility is 14,400 square feet in size and houses the command post, wing operations center, survivability recovery center, and general command and control functions. These four basic components, as well as the air crew mass briefing area form the basic components of the facility including a Sensitive Compartmented Information Facilities (SCIF). This facility complied with JAFAN 6/9 requirements. The cost of this project was $6 million.

Addition/alter Communication Facility Building 313, Volk Field CRTC – Camp Douglas, Wisconsin

This 1,711-square-foot, $1.3 million addition to the north-center portion of building 313 involved extensive interior remodeling to provide spaces that better support the needs of the facility occupants. The new addition was constructed of a light gauge insulated metal stud wall system and a new rigid frame structure to support the new center roofs and the exterior walls. New light gauge metal roofs trusses over the upper and lower center roof area were installed, supported by a rigid frame structure. The exterior wall veneer system is a combination of EIFS and brick, and a new aluminum fascia and soffit system was incorporated in both the new and existing structures. In addition, a standing seam roof system was installed over the entire new and existing roof slopes. Kevin was the supervising electrical engineer on this project.

Replace squadron operations facility 144th Fighter Wing (FW) – Fresno Air National Guard (ANG) Base, California

Kevin is the senior electrical engineer on this project and provided quality control on for this $9.8 million, 23,300-square-foot building, a centerpiece for the Fresno ANGB is designed to LEED® Gold standards. The 144 FW and its subordinate Fighter Squadron will use this new building for staff training and preparing for flying missions. The building contains JAFAN 6/9 and DoD 5200 compliant classified areas: Command Post, Intelligence Division, Aircrew Mission Planning areas, Aircrew Briefing Rooms. Other functional areas within the building are life support, survival equipment, flight equipment locker room, mobility equipment storage, locker rooms, command and administrative offices, visiting pilots conference room and an auditorium.

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Expertise of your team

Resumes

Nathan Engelby, PE
Electrical

Education

BS, Electrical Engineering, North Dakota State University

Registration

Licensed Professional Engineer – Minnesota, Oregon and Wisconsin

Nathan Engelby has experience in the design of power distribution, emergency and standby generators, industrial controls, lighting, voice/data, public address, fire alarm, CATV, security, and CCTV systems. He has experience in designing electrical systems for a variety of buildings, including airports, military facilities, tunnels, food and industrial plants, and maintenance facilities. He has designed buildings entire electrical systems starting at the conceptual stage and following through schematic design, design development, construction documents, and construction services to final punchlist.

Related projects

Construct Communications Facility, Truax Field, WI Air National Guard (ANG) base – Madison, Wisconsin

Nathan was the electrical engineer responsible for the underground power distribution system, site lighting and controls, power, grounding, interior lighting, and exterior lighting system designs. He assisted in the design of the site communications, voice/data, security, mass notification, CATV and fire alarm systems for the facility. The power system for the facility included a standby generator and automatic transfer switch backing up the entire building. Several UPSs and dedicated panels were supplied for critical loads. Nathan provided construction administration services for this project. Project size was approximately 13,100 square feet, and project cost was $3.6 million.

Addition/Alter Fire Crash/Rescue Facility, Truax Field, WI ANG base – Madison, Wisconsin

This project was a 15,700-square-foot expansion of the fire crash and rescue station at the Dane County Regional Airport for the 115 Fighter Wing (FW) at the WI ANG. The project also included the complete remodel of the existing 9,200-square-foot facility. The station provides structural response and medical first response for the Dane County Regional Airport and the vicinity around the airport. The facility is designed for 24-hour occupation, seven days a week, by a full-time staff of 10 firefighters. This project cost $5.2 million. Nathan provided electrical engineering for this project.

Addition/Alter Base Civil Engineer (BCE) Facility, Building 701, General Mitchell International Airport, WI ANG base – Milwaukee, Wisconsin

This project, outlined in the Base Master Plan developed by Mead & Hunt, involved a 3,300-square-foot addition and 14,400-square-foot alteration of the existing BCE facility, Building 701. This facility supports base engineering administration, engineering maintenance shops and associated support services. The existing toilet/locker areas were significantly under sized for female staff. Other areas of the building required upgrades to comply with current building codes. Alterations made to the building included much needed improvements and expansions of staff toilet/locker areas, office, break room and tool rooms. Expansion of the building included the addition of two general assembly multi-purpose classrooms. The project cost $1.8 million. Nathan provided electrical engineering for this project.

Replace squadron operations facility, Volk Field Combat Readiness Training Center (CRTC) – Camp Douglas, Wisconsin

Nathan assisted in the design of a 15KV power distribution system for this project. He also assisted in the design of power, communications, and fire alarm systems. He also assisted in providing construction administration services. The cost of this project was $8 million

TETRA TECH Mead & Hunt
Joint Venture

Resumes

Kim Baslock, CEM, LEED® AP
Energy efficiency/conservation

Education

MBA, University of Michigan, Flint
BS, Mechanical Engineering, Michigan Technological University

Registration

Certified Energy Manager
Leadership in Energy and Environmental Design (LEED®) Accredited Professional
Fundamentals of Engineering/EIT/Part I

Kim Baslock has more than ten years of experience specializing in energy management, auditing, engineering, and supervising operations in the energy and utilities industry. She has extensive familiarity with all aspects of Performance contracting or performance solutions including auditing, design of mechanical and lighting systems, HVAC, process piping, chilled water, heating hot water, steam systems, and air. Kim has been responsible for energy studies, engineering design, project development, project scheduling, commissioning, measurement, and verification phase services. Her business experience includes municipal, industrial, institutional, and commercial business facilities. She also has a strong background in operating and managing daily powerhouse operations, wastewater treatment operations, steam, compressed air, chilled water, natural gas and electrical distribution systems.

Related projects

Facility Energy Assessment – Ramstein Air Base, Germany

Kim conducted building evaluations for facility improvement opportunities. Developed project cost and savings estimates; completed project financial analysis for federal funding submittals totaling more than $5 million.

LEED® Sustainability Assessment, Financial Services Company – Lansing, Michigan

Kim conducted an on site survey of the LEED®-EBOM certification potential for a 15 story, 68,000 square foot commercial building. The analysis included an inventory of energy and resource conservation opportunities as well as recommendations for LEED® oriented projects that can be designed and implemented by the site facility management group. Estimated costs were developed for recommended credit achievement to reach the range of levels for certification.

Facility Energy Assessment, National Railroad Passenger Corporation's (Amtrak) Albany Maintenance Shops – Albany, New York

Kim conducted utility review and assessment of the 32-acre facility with more than 120,000 square feet of indoor maintenance, support and administration areas. Investigated energy conservation opportunities for the lighting, compressed air, building envelope, and fuel oil and natural gas heating systems. Results identified over $263,000 in annual utility cost savings for upgrades and improvements with a combined 0.7 year simple payback.

Facility Energy Assessment, National Railroad Passenger Corporation's (Amtrak) Bear Maintenance Shops – Bear, Delaware

Kim performed assessments of the 61-acre facility with more than 234,000 square feet of indoor maintenance areas. Identified retrofit opportunities of the lighting, compressed air, motor, and fuel oil heating systems. Results included identification of nearly $200,000 in annual utility cost savings for upgrades and improvements with a combined one year simple payback.

Expertise of your team

Resumes

Harry Spielberg
Communications/special systems

Education

BA, Psychology, SUNY Stonybrook
Brooks Institute/Nikon School
Syn-Aud-Con Audio Engineering Technical Seminars

Affiliations

Society of Motion Picture and Television Engineers (SMPTE)
Human Factors and Ergonomics Society (HFES)
Society for Information Display (SID)
Society of Photo-Optical Instrumentation Engineers (SPIE) (International Society for Optical Engineers)
Audio Engineering Society (AES)

As Director of Cosentini's Audiovisual Group, Harry will:

- Lead the audiovisual engineering team in audiovisual systems design.
- Coordinate the design and the development of audiovisual systems and documentation.
- Work with other disciplines and the design team to develop a fully coordinate a design.
- Insure that the audiovisual team evaluates recent technical developments in product design to work towards a reliable design.

Harry Spielberg is highly regarded for his work with command and control centers, videoconference/broadcast suites and every type of facility requiring audiovisual systems. As an ergonomics engineer, he incorporates a human factors design approach to mission critical facilities. His work on these projects includes initial space planning, furniture design, interior design elements, and the integrated audio, video, control, display, recording, and switching systems, as well as the interface to telecom and infotech subsystems. Harry has particular expertise in designing the human interface to the technology in the form of graphical user interfaces. Also, he was one of the first audiovisual designers to use 3D CADD design techniques in depicting facilities design.

Related projects

- U.S. Department of Homeland Security Headquarters, Security Command Center – Washington, DC
- Security Command Center for the United States Capitol Hill Complex –Washington, DC
- Communications Control Center for the Capitol Hill Complex – Washington, DC
- Chief's War Room/Conference Room, US Capitol Police – Washington, DC
- NASA Joint Communications Control Center – Cape Canaveral, Florida
- Emergency Public Address System for the Capitol Hill Complex – Washington, DC
- US Air Force, Air Mobility, Command and Control Center, Scott Air Force Base (AFB)
- US Air Force, B-52 Bomber Fleet, Command and Control Center, Barksdale AFB
- US Air Force, Strategic Air Command (STRATCOM), Offutt AFB
- US DOT, Command Center for Advanced Projects Research Division – Cambridge, Massachusetts

Expertise of your team

Resumes

Frank Burnham, RCDD
Communications/special systems

Education
BA, Philosophy, University of Wisconsin
AA, Electricity, Minneapolis Technical Institute

Registration
Designer of engineering systems, electrical – Wisconsin
Registered Communications Distribution Designer (RCDD)

Frank Burnham provides electrical and communication system design for various project types. Design responsibilities for these projects have included voice/data systems, security systems, fire alarm systems, sound systems, cable television systems, and audio/visual systems. He specializes in design and specifications for these projects in military, governmental, industrial and commercial facilities. Frank has also conducted detailed cost estimates and provided construction supervision.

Related projects

Munitions support complex, Truax Field Air National Guard (ANG) base – Madison, Wisconsin

Frank was the special systems designer for administration building, maintenance and inspections building, igloos, and segregated storage building for the munitions complex at Truax ANG base. This project included design of voice and data communications system, security system, mass notification system, cable television (CATV) system, audio/visual system, and fire alarm system. This project cost $5.3 million.

Upgrade composite maintenance support complex, General Mitchell International Airoprt, WI ANG base – Milwaukee, Wisconsin

Frank was the special systems designer for the upgrade of the 47,511-square-foot composite maintenance support complex at General Mitchell International Airport ANG base. This project included design of voice and data communications system, security system, mass notification system, cable television (CATV) system, audio/visual system, and fire alarm system. The cost of this project was $2.5 million.

New readiness training center, Wisconsin Army National Guard (WI ARNG) – Camp Williams, Wisconsin

Frank provided electrical design services for a new readiness training center for the WI ARNG at Camp Williams. This $8.7 million facility project consists of designing a new readiness center for the 32nd Red Arrow Brigade. The new 44,815-square-foot facility will serve not only training needs but will also act as the new brigade headquarters. Replacing the aging existing facility, the new readiness center will address the current lack of necessary facilities for safe and efficient training.

Expertise of your team

Resumes

Rockwood Edwards, FPE
Fire Protection

Education

BS, Mechanical Engineering
MS, Fire Protection Engineering

Registration

Licensed Fire Protection Engineer – Massachusetts

Rockwood Edwards, a Fire / Life Safety Engineer and Code Consultant, joined Tetra Tech 2010 to establish a code consulting group and to strengthen our Fire Engineering and Life Safety group. Rockwood's responsibilities include advising clients regarding the building and fire codes as well as other specialized codes. Project work includes design of fire protection systems, developing solutions to comply with the intent of the building and fire codes/regulations and negotiations with local authorities. Prior to joining Tetra Tech, Rockwood was employed as a Code Consultant and Fire / Life Safety consultant for Schirmer Engineering for nine years, from 2001 to mid-2010, where he provided building code, fire protection/life safety and accessibility code consulting services for a wide range of occupancies and building types.

Related projects

East End Embassy Housing – Baghdad, Iraq

As a senior fire protection engineer, Rockwood provided peer review of the warehouse fire protection systems redesign for compliance with the Unified Facilities Criteria and NFPA standards. This design-build project involved 13 housing units of approximately 25,000 square feet each, support facilities and associated infrastructure on a 29-acre site. The first barracks were ready for occupancy within ten months of the beginning of design with anti-terrorism and force protection (AT/FP) design elements for blast resistance and protection against rocket attacks. The project cost was $145 million.

IRS Northeast Regional Headquarters – Andover, Massachusetts

Rockwood was a senior fire protection engineer responsible for code consulting, fire protection and life safety drawing review. This Design Excellence project included the interior renovation of the 400,000-square-foot facility, including the modification of systems to support the new facility layout, the upgrade of mechanical electrical, telecommunications and security systems.

Fernandez Landing Zone Helicopter Maintenance Hangar, Baghdad Embassy Compound – Baghdad, Iraq

Rockwood was a senior fire protection engineer on this design and construction of a maintenance facility including hangar space for two helicopters, mechanical shops, a bridge crane, a fire pump room, storage rooms, a communications room and a hardened office and planning room. Design included a 4,095-square-meter helicopter maintenance and repair hangar, a 2,025-square-meter helicopter landing pad and a 23,075-square-meter apron and taxiway. Also included in this project was pavement evaluation using PCASE program; a comprehensive geotech program that included importing soils for testing at a Tetra Tech laboratory in the US; and a power source derived by generator for normal and 100 percent stand-by power. Rockwood provided third party review of the fire pump suction piping arrangement.

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER	PAGE
DEFK11028	1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
TARA LYLE
304-558-2544

VENDOR
RFQ COPY
Mead & Hunt, Inc.
400 Tracy Way, Suite 200
Charleston, WV 25311
304-345-6712 Fax: 304-345-6714

SHIP TO
DIV ENGINEERING & FACILITIES
ARMORY BOARD SECTION

1707 COONSKIN DRIVE
CHARLESTON, WV
25311-1099 304-341-6368

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
02/01/2011				

BID OPENING DATE: 03/15/2011 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		906-00-00-001		

ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL

EXPRESSION OF INTEREST (EOI)

THE WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY, WV NATIONAL GUARD, DIVISION OF ENGINEERING AND FACILITIES, IS SOLICITING EXPRESSIONS OF INTEREST FOR PROFESSIONAL ARCHITECTURAL ENGINEERING DESIGN SERVICES FOR A JOINT OPERATIONS FACILITY TO BE LOCATED IN THE VICINITY OF THE WEST VIRGINIA NATIONAL GUARD STATE HEADQUARTERS IN CHARLESTON, WV PER THE FOLLOWING BID REQUIREMENTS AND ATTACHED SPECIFICATIONS.

TECHNICAL QUESTIONS MUST BE SUBMITTED IN WRITING TO TARA LYLE VIA MAIL AT THE ADDRESS SHOWN IN THE BODY OF THIS EOI, VIA FAX AT 304-558-4115, OR VIA EMAIL AT TARA.L.LYLE@WV.GOV.

DEADLINE FOR ALL TECHNICAL QUESTIONS IS 2/23/2011 AT THE CLOSE OF BUSINESS. ANY TECHNICAL QUESTIONS RECEIVED WILL BE ANSWERED BY FORMAL ADDENDUM ISSUED BY THE PURCHASING DIVISION AFTER THE DEADLINE HAS LAPSED. CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
	608-273-6380	3/22/2011

TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
Vice President, Federal Programs	39-0793822	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
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Request for Quotation

RFQ NUMBER	PAGE
DEFK11028	2

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BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.

NOTICE

A SIGNED BID MUST BE SUBMITTED TO:

DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
BUILDING 15
2019 WASHINGTON STREET, EAST
CHARLESTON, WV 25305-0130

THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:

SEALED BID

BUYER:----------TL/32----------

RFQ. NO.:----------DEFK11028----------

BID OPENING DATE:----------03/15/2011----------

BID OPENING TIME:----------1:30 PM----------

PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
	608-273-6380	3/22/2011

TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
Vice President, Federal Programs	39-0793822	

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State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
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Charleston, WV 25305-0130

Request for Quotation

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DEFK11028	3

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608-273-6380

CONTACT PERSON (PLEASE PRINT CLEARLY):
Jeff Sorenson, PE, CFM, DBIA

****** THIS IS THE END OF RFQ DEFK11028 ****** TOTAL:

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE [signature] TELEPHONE 608-273-6380 DATE 3/22/2011

TITLE Vice President, Federal Programs FEIN 39-0793822

ADDRESS CHANGES TO BE NOTED ABOVE

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ADDENDUM NO. 1

1. QUESTIONS AND ANSWERS ARE ATTACHED.
2. TO MOVE THE BID OPENING FROM 03/15/2011 TO 03/22/2011.
3. ADDENDUM ACKNOWLEDGEMENT IS ATTACHED. THIS DOCUMENT SHOULD BE SIGNED AND RETURNED WITH YOUR BID. FAILURE TO SIGN AND RETURN MAY RESULT IN DISQUALIFICATION OF YOUR BID.

EXHIBIT 10

REQUISITION NO.: DEFK11028

ADDENDUM ACKNOWLEDGEMENT

I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.

ADDENDUM NO.'S:

NO. 1 ..X...

NO. 2 .....

NO. 3 .....

NO. 4 .....

NO. 5 .....

I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
	608-273-6380	3/22/2011

TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
Vice President, Federal Programs	39-0793822	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.

2. The State may accept or reject in part, or in whole, any bid.

3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required $125 fee.

4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.

5. Payment may only be made after the delivery and acceptance of goods or services.

6. Interest may be paid for late payment in accordance with the ***West Virginia Code***.

7. Vendor preference will be granted upon written request in accordance with the ***West Virginia Code***.

8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.

9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.

10. The laws of the State of West Virginia and the ***Legislative Rules*** of the Purchasing Division shall govern the purchasing process.

11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.

12. BANKRUPTCY: In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.

13. HIPAA BUSINESS ASSOCIATE ADDENDUM: The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at **www.state.wv.us/admin/purchase/vrc/hipaa.htm** and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.

14. CONFIDENTIALITY: The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf.

15. LICENSING: Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

16. ANTITRUST: In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or Fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.

2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.

3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.

4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130

5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).

State of West Virginia
Department of Administration
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VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.

.....
SIGNATURE

MEAD T. HUNT, INC.
COMPANY

MAR 18, 2011
DATE

NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE BID.

REV. 09/21/2009

END OF ADDENDUM NO. 1

0001 JB 906-00-00-001
1
ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
	608-273-6380	3/22/2011
TITLE Vice President, Federal Programs	FEIN 39-0793822	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

RFQ No. DEFK11028

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:
"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (***West Virginia Code*** §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: MEAD & Hunt, Inc.

Authorized Signature: _____ Date: 3/18/2011

State of Wisconsin

County of Dane, to-wit:

Taken, subscribed, and sworn to before me this 15 day of March, 2011.

My Commission expires 9-23-2012, 20___.

AFFIX SEAL HERE

ELISE JORGENSON NOTARY PUBLIC STATE OF WISCONSIN

NOTARY PUBLIC Elise Jorgenson