

MHZ JV

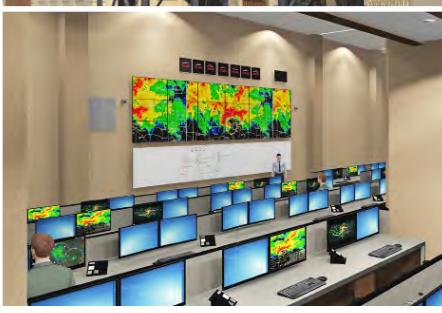
A MENTOR PROTÉGÉ JOINT VENTURE

SUBMITTED TO
U.S. Army Corps of Engineers
Forth Worth District

SOLICITATION NO.
W9126G-20-R-0041
SMALL BUSINESS

JANUARY 5, 2022

INDEFINITE DELIVERY CONTRACT
(IDC), MULTIPLE AWARD
TASK ORDER CONTRACT
ARCHITECT AND ENGINEERING
SERVICES FOR MILITARY
PROJECTS PRIMARILY FOR
THE FORT WORTH DISTRICT
AND SOUTHWESTERN DIVISION
AREA OF RESPONSIBILITY
(UNRESTRICTED WITH SMALL
BUSINESS RESERVE)





PART I
SECTIONS A-C



US Army Corps
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MATOC For A-E Design Services for Military Programs for the Fort Worth District and Southwestern Division AOR

W9126G-20-R-0041 - SMALL BUSINESS

Headquarters 1st Cavalry Division

January 5, 2022

ARCHITECT - ENGINEER QUALIFICATIONS

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION (City and State)

Indefinite Delivery Contract (IDC), Multiple Award Task Order Contract Architect and Engineering Services for Military projects primarily for the Fort Worth District and Southwestern Division Area of Responsibility (Unrestricted with Small Business Reserve)

2. PUBLIC NOTICE DATE

9 November 2021

3. SOLICITATION OR PROJECT NUMBER

W9126G-20-R-0041 – SMALL BUSINESS

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Josh Carson – JV Board Member

5. NAME OF FIRM

MSMM HUITT-ZOLLARS A JOINT VENTURE

6. TELEPHONE NUMBER

504-570-6098

7. FAX NUMBER

N/A

8. E-MAIL ADDRESS

joshcarson@msmmeng.com

C. PROPOSED TEAM

(Complete this section for the prime contractor and all key subcontractors.)

	PRIME	JV PARTNER	SUBCONTRACTOR	9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
a.	X			MSMM Huitt-Zollars A Joint Venture (SB) DUNS #117073814 <input type="checkbox"/> CHECK IF BRANCH OFFICE	4640 Carrollton Avenue Suite 220 New Orleans, LA 70119	
b.		X		MSMM Engineering, LLC (SB) DUNS #969989370 <input type="checkbox"/> CHECK IF BRANCH OFFICE	4640 Carrollton Avenue Suite 220 New Orleans, LA 70119	
c.		X		MSMM Engineering, LLC (SB) DUNS #071392535 <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	13850 Gulf Freeway Suite 202A Houston, TX 77034	Program Management, Project Management, Civil Engineering, Structural Engineering, Architecture, Electrical Engineering, Mechanical Engineering, Landscape Architecture, Hydrology, Hydraulic Engineering, Construction Cost Estimating, GIS, Technical Review, Public Information, Land Surveying
d.		X		Huitt-Zollars, Inc. DUNS #156399560 <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	500 W. 7th Street Suite 300 Fort Worth, TX 76102	
e.		X		Huitt-Zollars, Inc. DUNS #080747660 <input type="checkbox"/> CHECK IF BRANCH OFFICE	5430 LBJ Freeway Suite 1500 Dallas, TX 75240	
f.		X		Huitt-Zollars, Inc. DUNS #879473999 <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	10350 Richmond Avenue Suite 300 Houston, TX 77042	
g.		X		Huitt-Zollars, Inc. DUNS #036623460 <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	5822 Cromo Drive, Suite 210 El Paso, TX 79912	
h.			X	Michael Baker International, Inc. DUNS 044679335 <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	7090 S Union Park Ave Suite 500 Salt Lake City, UT 84047	Fire Protection Engineering, Environmental Engineering; Multi-discipline Support
i.			X	Michael Baker International, Inc. DUNS 827041075 <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	1501 Lyndon B. Johnson Freeway Suite 650 Dallas, TX 75234	
j.			X	ETTL Engineers & Consultants Inc. (WOSB) DUNS #052125457 <input type="checkbox"/> CHECK IF BRANCH OFFICE	1717 East Erwin Tyler, TX 75702	Geotechnical Engineering

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k.		<input checked="" type="checkbox"/> JESCO Environmental & Geotechnical Services, Inc. (SB, 8(a), SDB, WOSB, EDWSB) DUNS #948076989 <input type="checkbox"/> CHECK IF BRANCH OFFICE	1701 S. Thibodeaux Rd. Jennings, LA 70546	Environmental
l.		<input checked="" type="checkbox"/> ALLIANCE WSP JV (SDVOSB, SDB) DUNS #080904567 <input type="checkbox"/> CHECK IF BRANCH OFFICE	1635 Prince Street Alexandria, VA 22314	Fire Protection Engineering, Planning, Engineering Support
m.		<input checked="" type="checkbox"/> ARS Engineers, Inc. (SB, SDB) DUNS #151196813 <input type="checkbox"/> CHECK IF BRANCH OFFICE	12801 N. Central Expressway Suite 1250 Dallas, TX 75243	Surveying, Civil Engineering Support
n.		<input checked="" type="checkbox"/> Vernadero Group Incorporated (VDSB) DUNS #114054054 <input type="checkbox"/> CHECK IF BRANCH OFFICE	3400 S. Carrollton Avenue #850752 New Orleans, LA 70185	Environmental Support
o.		<input checked="" type="checkbox"/> Singhofen & Associates, Inc. (SDB, HUBZone) DUNS #783377690 <input type="checkbox"/> CHECK IF BRANCH OFFICE	11723 Orpington Street Suite 100 Orlando, FL 32817	Civil Engineering, Environmental Support
p.		<input checked="" type="checkbox"/> Terrane Engineering (SDB, HUBZone) DUNS #556047512 <input type="checkbox"/> CHECK IF BRANCH OFFICE	507 E. Boston Cr. Chandler, AZ 85225	Geotechnical Engineering Support
q.		<input checked="" type="checkbox"/> Rios Group (WOSB) DUNS #078570979 <input type="checkbox"/> CHECK IF BRANCH OFFICE	7400 Sand Street Fort Worth, TX 76118	Subsurface Utility Engineering
r.		<input checked="" type="checkbox"/> EudaCorp (SDB) DUNS #962019159 <input type="checkbox"/> CHECK IF BRANCH OFFICE	707 West Vickery Boulevard Suite 102A Fort Worth, TX 76104	Cost Estimating / Value Engineering / Scheduling



PART I

SECTIONS D



US Army Corps
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D. ORGANIZATIONAL CHART OF PROPOSED TEAM

(Attached)

LEGEND

MHZ JV – MSMM Huitt-Zollars JV

EC – EudaCorp

MBI – Michael Baker International

AWJV – ALLIANCE/WSP JV

■ – Resumes Included in Section E

■ – Support Services (No Resumes)



PROGRAM MANAGER

Larry Rogers, PE
MHZ JV

PROJECT MANAGERS

James (Jim) Fullmer, PE, LEED AP MHZ JV
Gene Valentine, AIA, FCSI, GGP MHZ JV

CIVIL ENGINEERS

Michael DeLeon, PE MHZ JV

Jim Wilson, PE MHZ JV

Kevin Carlson, PE MHZ JV

LANDSCAPE ARCHITECTS

Chris Scott, RLA, CNU-A MHZ JV

Jeffrey Holba, RLA, ASLA MHZ JV

STRUCTURAL ENGINEER

William Wallace, PE, SECB, MLSE MHZ JV

Brion Echols, PE MHZ JV

John Coffery, PE, SE MBI

ARCHITECT

William Hoelscher, RA, LEED AP MHZ JV

Randall Hickey, RA, RID MHZ JV

Joe Wells, RA, RID MHZ JV

ELECTRICAL ENGINEER

Scott Parma, PE, LEED AP MHZ JV

Leonard Carthon, PE, RA, LEED AP MHZ JV

Jeff Roberts, PE, RCDD, LEED AP MHZ JV

MECHANICAL ENGINEER

Jeffrey Wilson, PE, LEED AP MHZ JV

Jaime Espinosa, PE, LEED AP MHZ JV

Sergey Aleksanyan, PE, LEED AP MHZ JV

FIRE PROTECTION ENGINEER

Kevin Spangler, PE MBI

Nathan Vander Roest, PE AWJV

ENVIRONMENTAL ENGINEER

Elizabeth Krousel, PE MBI

GEOTECHNICAL ENGINEER

Greg Garced, PE MBI

HYDRAULIC ENGINEER

Robert Armstrong, PE, CFM MHZ JV

COST ESTIMATOR

Maria Gatela, CCP EC

LAND SURVEYOR

Steven Cobb, RPLS MHZ JV

VALUE SPECIALIST

Don Daigle, CVS, CPE MHZ JV

SUPPORT DISCIPLINES

Environmental Support

Vernadero

JESCO

Singhofen & Associates

Subsurface Utility Engineering

The Rios Group

Geotechnical Support

ETTL

Terrane Engineering

Surveying Support

ARS Engineers



PART I

SECTIONS E



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W9126G-20-R-0041 - SMALL BUSINESS Headquarters 1st Cavalry Division

January 5, 2022

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME LARRY ROGERS, PE	13. ROLE IN THIS CONTRACT PROGRAM MANAGER	14. YEARS EXPERIENCE a. TOTAL 46	b. WITH CURRENT FIRM 14
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15. FIRM NAME AND LOCATION (City and State)

MSMM HUITT-ZOLLARS JV | Fort Worth, Texas

16. EDUCATION (Degree and Specializing) 1974, BS, Civil Engineering, University of Texas Arlington	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer - Civil: Texas, 1980, #46873
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Larry has extensive experience in design, construction, and program and project management. Larry spent more than 32 years with USACE. Serving in successively more responsible positions and finishing as the Chief of Engineering and Construction Division with SWF. He has been involved in the design and construction of projects in Texas, New Mexico, Louisiana, Oklahoma, and Arkansas. Larry is very knowledgeable of DoD and USACE criteria including anti-terrorism/force protection.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State) Repair Warehouse (B4845) for LRS/CE Consolidation Barksdale AFB, Louisiana		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2016 CONSTRUCTION (If applicable) 2016	
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- a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm
- Scope:** This project is a \$7M Air Force warehouse 228,600 SF renovation. The project replaced substandard facilities currently occupied by some Civil Engineer (CE) shops and reduced the facilities footprint at Barksdale AFB by consolidation with the Logistics Readiness Squadron (LRS). The renovation was designed using sustainable aesthetically pleasing, functional, durable finishes appropriate to the building's function and construction was phased for partial occupation of the building by LRS. The team provided construction drawings and specifications for all disciplines. Phasing and construction sequencing was critical as the building remained occupied during construction. Use of durable and sustainable materials was maximized. Cost: \$7M Role: Program Manager

(1) TITLE AND LOCATION (City and State) Maneuver Systems Sustainment Center (MSSC), Bldg. 373 Dynamometer Facility Red River Army Depot, Texarkana, Texas		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2017 CONSTRUCTION (If applicable) 2018	
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- b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm
- Scope:** The Maneuver Systems Sustainment Center (MSSC) is a new facility that achieves consolidation of multiple functions into a single facility including disassembly, rebuild, metal finishing, body repair, painting and preparation of present and future tactical vehicles, including their major components and control systems. The MSSC is one of only three such army depots in the nation. Cost: \$209M Role: Program Manager

(1) TITLE AND LOCATION (City and State) Renovation of 1st Cavalry Headquarters Fort Hood, Texas		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2018 CONSTRUCTION (If applicable) 2019	
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- c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm
- Scope:** The renovation of this 130,000 SF Army Division Headquarters and Command Operations Facility included administrative/office, an Operations Center (OC), Network Operations Center (NOC) and Sensitive Compartmented Information Facility (SCIF) served by an exterior Tactical SCI Vehicle Area (TSVA), including a Special Technical Operations (STO) Facility. Design of temporary swing space was also required. Provided full design construction documents and specifications (SpecsIntact) for the civil, structural, mechanical, electrical, telecom, plumbing and landscape disciplines. The site included increased parking improvements while still meeting AT/FP and ABA. The new mechanical systems were designed to exceed ASHRAE 90.1 by greater than 20%. Operationally critical areas of the facility were provided with redundant HVAC and the entire facility is served by a back-up generator in the event of a primary electrical failure. Cost: \$46M Role: Program Manager

(1) TITLE AND LOCATION (City and State) Repair Medical Warehouse, Building 11156 Fort Bliss, Texas		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2020 CONSTRUCTION (If applicable) 2021	
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- d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm
- Scope:** The complete renovation and repair to the 55,000 SF Building 11156, which is occupied by the Equipment Management Branch (EMB), Supply Chain Management Branch (SCMB) and Shared Support Administrative Areas. The existing roofing system is being removed down to the metal deck. The new roof replacement was designed to be an 80-mil thick Thermoplastic Polyolefin (TPO) Roofing System. Additionally, existing openings associated with the two masonry flues for boiler stacks and 11 industrial metal roof vents on the Property Management side of the warehouse roof are being removed, in-filled with code compliant substrate and a new roofing system installed. Cost: \$7.4M Role: Program Manager

(1) TITLE AND LOCATION (City and State) Renovation of Historic Buildings B5676 and Hangar B6426 Barksdale Air Force Base, Louisiana		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2016 CONSTRUCTION (If applicable) 2016	
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- e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm
- Scope:** Revised floor plan layouts were developed for B5676. New HVAC, Electrical, Fire Alarm/Mass Notification and Fire Suppression system were designed to meet ASHRAE 90.1. B6426 Hangar 4 was renovated in place with the building occupied and operational thru out. The existing kitchen and day room were relocated from the ground floor to the second to make room for two additional Apparatus bays increasing capacity from 4 to 6 vehicles. B6426 Hangar 3 was gutted with selective demolition and asbestos abatement. All MEP systems were removed to leave a clean slate for future renovation. Cost: \$7.7M Role: Program Manager



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME JAMES (JIM) FULLMER, PE, LEED AP	13. ROLE IN THIS CONTRACT PROJECT MANAGER	14. YEARS EXPERIENCE a. TOTAL 33	b. WITH CURRENT FIRM 32
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15. FIRM NAME AND LOCATION (City and State)

MSMM HUITT-ZOLLARS JV | Fort Worth, Texas

16. EDUCATION (Degree and Specializing) 1982, BS, Civil Engineering, Texas A&M University	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer - Civil: Texas, 1995, #80595; LEED Accredited Professional
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

As Project Manager, Jim will provide leadership to the design team and assure that proper personnel and resources are allocated to provide completed design packages in accordance with specific design deliverable parameters. His work experience includes participation as a project manager and structural engineer. His federal sector project experience includes commercial-style low-rise and industrial warehouse type structures, manufacturing facilities, bridges, retaining walls and specialized canopy and parking structures. He has an extensive familiarity with the governing building codes, design standards and project requirements for military construction projects.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Renovation of 1st Cavalry Headquarters Fort Hood, TX	2018	2019

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Renovation of a 130K SF Army Division Headquarters and Command Operations Facility including renovations of all administrative/office, an Operations Center, Network Operations Center and Sensitive Compartmented Information Facility served by an exterior Tactical SCI Vehicle Area, including a Special Technical Operations Facility. Design of temporary swing space was also required. Provided full design construction documents and specifications (SpecsIntact) for the civil, structural, mechanical, electrical, telecom, plumbing and landscape disciplines. The site included increased parking improvements while still meeting AT/FP and ABA. The new mechanical systems were designed to exceed ASHRAE 90.1 by greater than 20%. Operationally critical areas of the facility were provided with redundant HVAC and the entire facility is served by a back-up generator in the event of a primary electrical failure. Cost: \$46M Role: Project Manager	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Repair/Renovate Dormitories 10070 and 10075 Lackland AFB, Texas	PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) 2014

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: This project consists of the repair and renovation of Dormitories 10070 and 10075 at Lackland AFB in San Antonio, TX. The dormitories were constructed in 1993 and subsequently operated with only sustainment level repairs and maintenance for almost thirty years. Due to the age and general condition of the dormitories, it became necessary to implement building repairs and renovate several safety systems in order for the buildings to become code compliant and to remove all mold-infested materials. Each dormitory houses 168 Navy MA School students. Cost: \$12M Role: Project Manager	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Renovations of Buildings 900 at JBSA/Lackland AFB San Antonio, TX	PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable) 2020

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Building 900 is an existing concrete tiltwall building originally constructed as a fire station and expanded twice in the past. Renovated the building for use by the 433 Contingency Response Flight. Work included the relocation of the airfield security fence, the addition of two free standing canopies, installation of a new fire water service, the addition of an ABA compliant entry ramp, and the resolution of a storm water ponding issue located in the parking area. The building is approximately 3772 SF and was fully renovated to include the interior walls, ceilings and floors, restroom layouts and fixtures, lighting fixtures, electrical power and data communication, HVAC system, domestic water distribution system, fire alarm and mass notification system, and a new fire sprinkler system. Cost: \$2M Role: Project Manager	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Renovations of Buildings 900 at JBSA/Lackland AFB San Antonio, TX	PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable) 2020

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Revised floor plan layouts were developed for B5676 to meet the program and user needs. New HVAC, Electrical, Fire Alarm/Mass Notification and Fire Suppression system were designed to meet ASHRAE 90.1. B6426 Hangar 4 was renovated in place with the building occupied and operational thru out. The existing kitchen and day room were relocated from the ground floor to the second to make room for two additional Apparatus bays increasing capacity from four to six vehicles. B6426 Hangar 3 was gutted with selective demolition and asbestos abatement. All MEP systems were removed to leave a clean slate for future renovation. Cost: \$7.7M Role: Project Manager	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Renovation of Historic Buildings B5676 and Hangar B6426 Barksdale Air Force Base, LA	PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) 2016

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Revised floor plan layouts were developed for B5676 to meet the program and user needs. New HVAC, Electrical, Fire Alarm/Mass Notification and Fire Suppression system were designed to meet ASHRAE 90.1. B6426 Hangar 4 was renovated in place with the building occupied and operational thru out. The existing kitchen and day room were relocated from the ground floor to the second to make room for two additional Apparatus bays increasing capacity from four to six vehicles. B6426 Hangar 3 was gutted with selective demolition and asbestos abatement. All MEP systems were removed to leave a clean slate for future renovation. Cost: \$7.7M Role: Project Manager	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
DOL BII Storage Facility, TMP Dispatchers Facility and TMP Maintenance Inspection Facility Fort Polk, LA	PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) 2017

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Provided full design for the \$2.35M project of three new metal facilities, a DOL BII Storage Facility, TMP Dispatchers' Facility, and TMP Maintenance/Inspection Facility. (Storage: 3,600 SF/ Dispatch: 3,000 SF/ Maintenance: 2,800 SF). The design included three new metal facilities, a DOL BII Storage Facility, TMP Dispatch Facility, and TMP Maintenance/Inspection Facility, to include foundation design and construction and ancillary site improvements to ensure positive watershed away from the facilities. Cost: \$2.3M Role: Project Manager	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
DOL BII Storage Facility, TMP Dispatchers Facility and TMP Maintenance Inspection Facility Fort Polk, LA	PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) 2017



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
	PROJECT MANAGER	a. TOTAL	b. WITH CURRENT FIRM
GENE VALENTINE, AIA, FCSI, GGP		43	3

15. FIRM NAME AND LOCATION (City and State)

MSMM HUITT-ZOLLARS JV | Fort Worth, Texas

16. EDUCATION (Degree and Specializing)

1979, BA, Architecture, University of New Mexico

2015, Masters Certificate in Construction Management, University of Texas Arlington

17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)

Registered Architect: Texas, 1998, #16201; New Mexico, 1984, #1753; Arizona, 1997, #31467; Arkansas, 2015, #8969; Louisiana, 2015, #8396; Oklahoma, 2018, #A7195

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Valentine has more than 40 years of experience serving as principal, project manager, quality control manager, design, architectural programmer, real estate pro-forma analysis, and pre-construction services. His experience includes military, non-military federal, healthcare, education, aviation, commercial, recreation, and industrial clientele. Representative projects include military housing, operations centers, vehicle maintenance facilities, warehouses, mission-critical data centers, commercial retail facilities, healthcare facilities, parking structures, and education facilities. He has considerable experience with design-bid-build, design-build, and CM at Risk construction delivery methods.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Repair Medical Warehouse, Building 11156 Fort Bliss, Texas	2020	2021

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Scope: The complete renovation and repair to the 55,000 SF Building 11156, which is occupied by the Equipment Management Branch (EMB), Supply Chain Management Branch (SCMB) and Shared Support Administrative Areas. The existing roofing system is being removed down to the metal deck. Additionally, existing openings associated with the two masonry flues for boiler stacks and 11 industrial metal roof vents on the Property Management side of the warehouse roof are being removed, in-filled with code compliant substrate and a new roofing system installed. Cost: \$7.4M Role: Project Manager	2020	2021

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
USDA, APHIS Fruit Fly Rearing and Release Facility (FFRRF) at Moore Air Base Edinburg, Texas	2021	2023

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Scope: Planning, design, and commissioning of the 120,000 SF, new insect secure facility to support the USDA APHIS insect Preventive Release Program with the goal of rearing 400 million sterile fruit flies per week. The project also includes extensive process engineering support for the diet processing, sorting, dying, and larvae seeding procedures and operations. Fourteen robotic machines are planned to assist production and reduce manual procedures to minimize the handling of as much as 60 tons of physical inventory per week. In addition to the industrial process engineering, the design team is providing civil, structural, mechanical, fire protection, and electrical engineering as well as architectural design. Cost: \$58M (Est. Construction) Role: Project Manager	2018	2020

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Bureau of Engraving and Printing Facility Expansion Fort Worth, TX	Ongoing	Ongoing

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Scope: The \$150M project will expand the BEP production facility by 250,000 SF and the administration area by 50,000 SF with an additional 70,000 SF of renovation. The facility will be upgraded to meet BEP and IBC standards for HVAC, electrical, lighting, communication, security systems, and plumbing. Site improvements include a new access control point, parking, and redundant utility connections. Provided full architectural design and engineering services for the administration building and site improvements. The administration facility was designed in phases to allow temporary relocation of the 250 personnel working in the admin space. All new facilities were designed to meet all current ASHRAE 90.1 and EISA 439, LEED principles were followed but not registered. Cost: \$150M (Construction) Role: Project Manager	Ongoing	Ongoing

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
USDA Child Nutrition Center Renovation Houston, TX	Ongoing	Ongoing

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Scope: Develop a Design-Build (D-B) Request for Proposal (RFP) package for the renovation of the Child Nutritional Research Clinic (CNRC). The CNRC was constructed in 1988 and is a unique cooperative venture with the Baylor School of Medicine and Texas Children's Hospital. Although the facility has been well maintained, the building systems are past their useful life and in need of renovation. There will be three submittals (15%, 35%, and Final Submittal) required for this contract and a hazardous material survey. Cost: \$23M (Est. Construction) Role: Project Manager	2019	2019

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Working Dog Joint Headquarters Facility TSA & DoD K9 Campus Master Plan and Two K9 Training Facilities Lackland Air Force Base, San Antonio, TX	Ongoing	Ongoing

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Scope: Responsible for architect of record duties. Project included architecture, engineering, cost estimating, surveying, and geotechnical services for a new 9,000-gross-SF training lab for working dogs. The facilities included an apparatus room, a recreated aircraft fuselage, a recreated baggage receiving area, and a covered multipurpose space. Cost: \$909K (Fee) \$37.4M (Construction) Role: Project Manager	2019	2019



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME MICHAEL DELEON, PE	13. ROLE IN THIS CONTRACT CIVIL ENGINEER	14. YEARS EXPERIENCE a. TOTAL 24	b. WITH CURRENT FIRM 15
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15. FIRM NAME AND LOCATION (City and State)

MSMM HUITT-ZOLLARS JV | Dallas, Texas

16. EDUCATION (Degree and Specializing)

1998, BS, Civil Engineering, Texas A&M University

17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)

Professional Engineer - Civil: Texas. 2003, #91753

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Michael has 20 years of experience in civil engineering design. With a focus on major infrastructure and civil site development, he has the ability to take programs from site planning, through design and to construction management. He understands USACE design requirements from his 8 years on the Fort Bliss Program having prepared civil infrastructure designs for \$1.0B. Michael also has extensive experience in the design and management of a wide variety of hydrology and hydraulics projects. His experience encompasses roadway drainage analysis, bridge hydraulic studies, and permitting, managing, creation and utilizing GIS databases, storm water quality and stream channel analysis.

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State) Fort Bliss Hospital Infrastructure – Fort Bliss, TX	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) 2019
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: The team provided all civil engineering and site design for the 1.13M SF world class medical center. Coordinated infrastructure requirements and design for the hospital buildings, central utility plant and other support facilities. Access control points and surface parking lots for 4,000 spaces were designed. New 1.5MG water storage and 4 miles of offsite sewer with lift stations support the site. Size: 300 Acres, \$85M Construction Role: Lead Civil Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	

b.	(1) TITLE AND LOCATION (City and State) BAK 12/14 Aircraft Arresting System (AAS) Biggs Army Airfield – Fort Bliss, TX	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable) 2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: The team developed DBB construction contract packages to support the installation of the BAK 12/14 AAS at two sites on the runway at Biggs Army Airfield. The BAK 12/14 AAS is a cable arresting system for tail-hook equipped aircraft experiencing an emergency. The team provided full plans and specs (SpecsIntact) and design in Civil 3D / BIM incorporating government furnished mechanical equipment installed by the contractor. In addition to full design, The team provided programming, DD1391 development, PDRI analysis and construction phase support. Cost Estimates were prepared in MII. Cost: \$5.8M Role: Civil Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	

c.	(1) TITLE AND LOCATION (City and State) Renovation of 1st Cavalry Headquarters – Fort Hood, TX	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) 2019
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: \$46M renovation of a 130K SF Army Division Headquarters and Command Operations Facility including renovations of all administrative/office, an Operations Center (OC), Network Operations Center (NOC) and Sensitive Compartmented Information Facility (SCIF) served by an exterior Tactical SCI Vehicle Area (TSVA), including a Special Technical Operations (STO) Facility. Design of temporary swing space was also required. Provided full design construction documents and specifications (SpecsIntact) for the civil, structural, mechanical, electrical, telecom, plumbing and landscape disciplines. The site included increased parking improvements while still meeting AT/FP and ABA. The new mechanical systems were designed to exceed ASHRAE 90.1 by greater than 20%. Operationally critical areas of the facility were provided with redundant HVAC and the entire facility is served by a back-up generator in the event of a primary electrical failure. Cost: \$46M Role: Civil Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	

d.	(1) TITLE AND LOCATION (City and State) Repair Medical Warehouse, Building 11156 – Fort Bliss, TX	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) 2021
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: The 55,000 SF project scope provided for complete renovation and complete repair to Building 11156, which is occupied by the Equipment Management Branch (EMB), Supply Chain Management Branch (SCMB) and Shared Support Administrative Areas. Exterior Conditions – Roof The existing roofing system is being removed down to the metal deck. The new roof replacement was designed to be an 80-mil thick Thermoplastic Polyolefin (TPO) Roofing System. Additionally, existing openings associated with the two masonry flues for boiler stacks and 11 industrial metal roof vents on the Property Management side of the warehouse roof are being removed, in-filled with code compliant substrate and a new roofing system installed. Cost: \$7.4M Role: Civil Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	

e.	(1) TITLE AND LOCATION (City and State) CCAD Hangar 8 Renovation DB RFP – Corpus Christi Army Depot, TX	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Preparation of a design-build RFP for the renovation and repair to one of the major maintenance bays of the 1.2M SF facility. This complex project includes a major overhaul of the systems and facility layout of approximately 70K SF. The project includes upgrades to comply applicable codes, UFCs and standards for all electrical, structural, fire suppression, HVAC, concrete floor repairs. Services included a charrette to gather the user's specific requirements, validate the 1391 and prepare a ENG Form 3086. The team then prepared a design-build RFP, performed a structural evaluation and participated in the value engineering study with an independent design team. The design team continued support through the bidding phase with responses to RFIs and pre-proposal conference presentations. Cost: \$20M (Construction) Role: Civil Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
KEVIN CARLSON, PE	CIVIL ENGINEER	26	24

15. FIRM NAME AND LOCATION (City and State)

MSMM HUITT-ZOLLARS JV | Fort Worth, Texas

16. EDUCATION (Degree and Specializing)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
1995, BS, Civil Engineering, University of Texas Austin	Professional Engineer - Civil: Texas. 2002, #89232

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Kevin has provided civil engineering and project management for a wide range of projects. Work has included preliminary planning, environmental assessments, surveys, cost estimating, preliminary design, and final design for both public and private projects. Responsibilities have included the design of culverts, low water crossings, roadways, water and wastewater lines, private utility lines, storm sewer systems, and storm sewer retention/detention structures. Carlson is proficient in the use of Autodesk AutoCAD design software and MicroStation with GEOPAK in accomplishing design and production objectives. Further, Carlson is familiar with HEC-RAS and other hydrology and hydraulics software packages utilized by various agencies.

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Maneuver Systems Sustainment Center (MSSC), Bldg. 373 Dynamometer Facility Red River Army Depot, Texarkana, Texas	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope: The Maneuver Systems Sustainment Center (MSSC) is a new facility that achieves consolidation of multiple functions into a single facility including disassembly, rebuild, metal finishing, body repair, painting and preparation of present and future tactical vehicles, including their major components and control systems. The MSSC is one of only three such army depots in the nation. Cost: \$209M Role: Civil Engineer		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Renovation of Historic Buildings B5676 and Hangar B6426 Barksdale Air Force Base, Louisiana	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope: Revised floor plan layouts were developed for B5676. New HVAC, Electrical, Fire Alarm/Mass Notification and Fire Suppression system were designed to meet ASHRAE 90.1. B6426 Hangar 4 was renovated in place with the building occupied and operational thru out. The existing kitchen and day room were relocated from the ground floor to the second to make room for two additional Apparatus bays increasing capacity from 4 to 6 vehicles. B6426 Hangar 3 was gutted with selective demolition and asbestos abatement. All MEP systems were removed to leave a clean slate for future renovation. Cost: \$7.7M Role: Civil Engineer		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Repair/Renovate Dormitories 10070 and 10075 Lackland AFB, Texas	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope: This project consists of the repair and renovation of Dormitories 10070 and 10075 at Lackland AFB in San Antonio, TX. The dormitories were constructed in 1993 and subsequently operated with only sustainment level repairs and maintenance for almost thirty years. Due to the age and general condition of the dormitories, it became necessary to implement building repairs and renovate several safety systems in order for the buildings to become code compliant and to remove all mold-infested materials. Each dormitory houses 168 Navy MA School students. Cost: \$12M Role: Civil Engineer		
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Love Field Modernization Program Apron and Roadway Improvements Dallas, Texas	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope: The apron project includes the removal and replacement of approximately 60 acres of apron and associated utilities and fuel lines. Glycol collection and storage facilities are included with the aircraft apron. This airside project includes the demolition, grading, jointing, striping, drainage, and other related civil plans. The roadway landside project involves widening and changing of the vertical alignment of the main feeder road into the airport. Cost: \$69M Role: Lead Civil Engineer		
e.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Fort Bliss Hospital Infrastructure – Fort Bliss, TX	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope: The team provided all civil engineering and site design for the 1.13M SF world class medical center. Coordinated infrastructure requirements and design for the hospital buildings, central utility plant and other support facilities. Access control points and surface parking lots for 4,000 spaces were designed. New 1.5MG water storage and 4 miles of offsite sewer with lift stations support the site. Size: 300 Acres, Cost: \$85M Role: Civil Engineer		



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME JIM WILSON, PE	13. ROLE IN THIS CONTRACT CIVIL ENGINEER	14. YEARS EXPERIENCE a. TOTAL 33	b. WITH CURRENT FIRM 9
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15. FIRM NAME AND LOCATION (City and State)

MSMM HUITT-ZOLLARS JV | New Orleans, Louisiana

16. EDUCATION (Degree and Specializing)

BS, Civil Engineering, Michigan Technological University, 1988

17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)

Professional Engineer/Civil (1993): TX (128376), LA (35456), MI (38800), FL (85114); LEED Accredited Professional: 2008

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Wilson is a Senior Civil Engineer with an extensive design portfolio consisting of USACE design projects across the USACE SWD footprint. He has over 30 years of civil engineering experience and has been the designer of record for all recent task orders completed for the Ft. Worth District. Mr. Wilson has civil works and military design experience inclusive of recent and relevant military design for the Tulsa and Albuquerque Districts. Mr. Wilson also has extensive construction phase experience, inclusive of engineering during construction, response to RFI's, input during the Design-Build bidding process, and review and approval of shop drawings.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State) New Science & Technology On-orbit Research Mission Operations Center (STORM), Kirtland AFB, Albuquerque, NM – USACE Albuquerque District	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable) 2023

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Development of a planning charrette report, Design-Build RFP, and solicitation support for a 3,800 SF addition and the upgrade of approximately 4,800 square feet of existing space within Building 592 at Kirtland Air Force Base. The project will require a new HVAC system and the evaluation and replacement design of the fire suppression system, site utilities and existing parking infrastructure. Cost: \$4.4M Fee: \$450K Role: Mr. Wilson is the lead civil engineer for the project. He is responsible for developing the civil site changes associated with the building addition, developing the Design-Build RFP civil scope, and providing civil site design input for the planning charrette. Mr. Wilson is also responsible for working with the cost estimation team to establish the required civil quantities and expected unit prices.	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Check if project performed with current firm	

(1) TITLE AND LOCATION (City and State) Systems Integration Laboratory (SIL) for Long-Range Standoff (LRSO) Renovation, Tinker AFB, Oklahoma City, OK – USACE Tulsa District	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable) 2023

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Development of the complete design and preparation of construction documents (plans, specs, life cycle cost analysis and design analysis for a 7,800 SF interior renovation of a high bay space within the current perimeter of Building 3220 at Tinker Air Force Base, to function as a LRSO missile testing lab. The two-high bay spaces are being converted to a missile testing lab and will include a conference room, communications room, and entry security vestibule. Cost: \$3.4M Fee: \$400K Role: Mr. Wilson is the lead civil engineer for the project, he is responsible for providing ramp design and ramp access (interior and exterior), the placement and design of a natural gas line, and the establishment of the utility yard associated with the conversion of a lean-to area to interior laboratory space.	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Check if project performed with current firm	

(1) TITLE AND LOCATION (City and State) Replacement of Granger Lake Office Building, Granger, TX – USACE Ft. Worth District	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) 2022

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Development of a design-bid-build package (plans and specs) for the creation of a new Lake office management building and the demolition of the existing facilities. Design services included civil, structural, electrical, and mechanical engineering, as well as architectural and landscape architectural design. Cost: \$3.2M Fee: \$358K Role: Mr. Wilson was the lead civil engineer for the project. He established the site design, designed the septic field, government parking lot and fencing, force protection and set the drainage elevations inclusive of drainage outlets and new drainage infrastructure.	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Check if project performed with current firm	

(1) TITLE AND LOCATION (City and State) Ascension Parish Environmental Infrastructure Sewer Treatment Plant Design, Hillaryville, LA – USACE New Orleans District	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) 2022

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Development of a design-bid-build package (plans and specs) for the creation of a 1.8 million gallon per day wastewater treatment plans as part of the Federal Section 219 Environmental Infrastructure program. Services consists of detailed civil/structural/mechanical/electrical/architectural/geotechnical analyses, cost estimating, and value engineering. Cost: \$21.5M Fee: \$1.5M Role: Mr. Wilson is the lead civil engineer for the project. He is responsible for establishing the site layout and is currently designing the drainage features associated with the site conversion. He has also worked with the architect to appropriately place the site buildings.	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Check if project performed with current firm	



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
CHRIS SCOTT, RLA, CNU-A	LANDSCAPE ARCHITECT	a. TOTAL 31	b. WITH CURRENT FIRM 14

15. FIRM NAME AND LOCATION (City and State)

MSMM HUITT-ZOLLARS JV | Dallas, Texas

16. EDUCATION (Degree and Specializing)

1992, BLA, Landscape Architecture, Texas Tech University

17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)

Registered Landscape Architect: Texas, 1999, #1976; New Mexico, 2006, #398; California, 2007, #5316; Washington, 2007, #1065; California, 2011, #LA904

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Scott's project experience ranges from master planning and visioning of urban land developments, community amenity design and aesthetics, commercial and retail developments, multi-use urban developments, streetscapes, manufacturing and industrial development, corporate campus design, restaurant and hotel development, tree preservation and identification, and federal and military housing. He was responsible for design of nearly \$100M of landscape construction on the JV team's Fort Bliss assignments, as well as all landscape architecture for the DHS/CBP projects.

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Renovation of 1st Cavalry Headquarters Fort Hood, Texas	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope: \$46M renovation of a 130K SF Army Division Headquarters and Command Operations Facility including renovations of all administrative/office, an Operations Center, Network Operations Center and Sensitive Compartmented Information Facility served by an exterior Tactical SCI Vehicle Area, including a Special Technical Operations Facility. Design of temporary swing space was also required. Provided full design construction documents and specifications (SpecsIntact) for the civil, structural, mechanical, electrical, telecom, plumbing and landscape disciplines. The site included increased parking improvements while still meeting AT/FP and ABA. The new mechanical systems were designed to exceed ASHRAE 90.1 by greater than 20%. Operationally critical areas of the facility were provided with redundant HVAC and the entire facility is served by a back-up generator in the event of a primary electrical failure. Cost: \$46M Role: Lead Landscape Architect	2018	2019
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Renovation of Historic Buildings B5676 and Hangar B6426 Barksdale Air Force Base, Louisiana	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope: Revised floor plan layouts were developed for B5676. New HVAC, Electrical, Fire Alarm/Mass Notification and Fire Suppression system were designed to meet ASHRAE 90.1. B6426 Hangar 4 was renovated in place with the building occupied and operational thru out. The existing kitchen and day room were relocated from the ground floor to the second to make room for two additional Apparatus bays increasing capacity from four to six vehicles. B6426 Hangar 3 was gutted with selective demolition and asbestos abatement. All MEP systems were removed to leave a clean slate for future renovation. Cost: \$7.7M (Construction) Role: Landscape Architect	2016	2016
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Fort Bliss Hospital Infrastructure Fort Bliss, Texas	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope: The project included all civil engineering and site design for the 1.13M SF world class medical center. Coordinated infrastructure requirements and design for the hospital buildings, central utility plant and other support facilities. Access control points and surface parking lots for 4,000 spaces were designed. New 1.5MG water storage and four miles of offsite sewer with lift stations support the site. Cost: \$85M Role: Landscape Architect	2016	2019
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	State Park Renovations Cedar Hill and Goose Island State Parks, Texas	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope: Served as Landscape Architect for the Cedar Hill portion of the work. It included preparation of a master plan for repair and rehabilitation of its day use area after severe flooding in 2015 and design stabilization of 4,000 feet of eroded shoreline, landscaping, grading and revegetation, new trails and sidewalks, new playground and equipment, new swim areas with ADA accessible route, and replacement of several damaged buildings. As a part of this project, he coordinated improvements with the preservation of historic sidewalks originally built by the Civil Conservation Corps. Cost: \$894K (Fee) Role: Landscape Architect	2016	2017
e.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	OCWR South Region Coyote Viewshed Newport Beach, California	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope: Design/build project which involves 7.7 miles of four-lane freeway and frontage roads. The environmental document identified the presence of endangered plant populations in numerous locations within the project ROW. Under the commitments to be adhered to was avoidance of impact to the Slender Rush Pea and the South Texas Ambrosia populations. Landscape design features considered shifting location of ramps and other hardscape elements to avoid plant conflict, mitigation by means of relocating existing plant population, and modifying limits of construction through horizontal and vertical alignment changes and restricted seeding areas, etc. Final solution employed all three of these options. Cost: \$74M (Construction) Role: Landscape Architect	2018	2018



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME JEFFREY HOLBA, RLA, ASLA	13. ROLE IN THIS CONTRACT LANDSCAPE ARCHITECT	14. YEARS EXPERIENCE a. TOTAL 21	b. WITH CURRENT FIRM 13
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15. FIRM NAME AND LOCATION (City and State)

MSMM HUITT-ZOLLARS JV | Dallas, Texas

16. EDUCATION (Degree and Specializing)

1999, Bachelor of Landscape Architecture, Oklahoma State University

17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)

Registered Landscape Architect: Texas, 2007, #2378

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

As a Senior Landscape Architect, Jeff has been responsible for major landscape architecture designs. His project experience ranges from master planning and visioning of urban land developments, community amenity design and aesthetics, hike and bike trail development, multi-family, town home, and housing developments, commercial and retail developments, multi-use urban developments, streetscapes, private and public park development, tree preservation and identification, and federal and military housing and urban development. He was responsible for preparing planting plans for many of the Fort Bliss landscape architecture plans.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Renovate B5676 and Hangar B6426 – Barksdale AFB, LA	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2016	2016

a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Revised floor plan layouts were developed for B5676 to meet the program and user needs. New HVAC, Electrical, Fire Alarm/Mass Notification and Fire Suppression system we designed to meet ASHRAE 90.1. B6426 Hangar 4 was renovated in place with the building occupied and operational thru out. The existing kitchen and day room were relocated from the ground floor to the second to make room for two additional Apparatus bays increasing capacity from 4 to 6 vehicles. B6426 Hangar 3 was gutted with selective demolition and asbestos abatement. All MEP systems were removed to leave a clean slate for future renovation. Cost \$7.7M Role: Landscape Architect	<input checked="" type="checkbox"/> Check if project performed with current firm
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(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Directorate of Emergency Services Headquarters (DES HQ) and Police Station – White Sands Missile Range, NM	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2012	2013

b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: The team provided all plans, specs (in SpecsIntact) and design analysis for the \$13.3M DES HQ and Police Station. The 35,000 SF facility designed to utilize traditional southwestern building materials while visually conveying the modern, high-tech mission of the missile range. Spaces include a secure Armory, a Detention Block, Interview Rooms, Fitness Center, Showers, Training Rooms, Public Lobby, offices and staff support areas. DES facility has SIPRNET room, Computer Room, and Mechanical Room. The project met ECB 2010-14 and achieve a 40% savings in energy over the ASHRAE 90.1-2007 baseline and LEED silver certification was met but not registered. Fee: \$1.37M Role: Sr. Landscape Architect	<input checked="" type="checkbox"/> Check if project performed with current firm
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(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Community Facilitates Infrastructure – Fort Bliss, TX	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2011	2011

c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As part of the Ft Bliss Expansion Program, a 200 acre town center was created to provide a central location for the 90,000 SF fitness facility, AAFES shopping center, aquatics facility, sports fields, community activity center, credit union, police center and other common elements. Four miles of 6-lane divided boulevard connecting through roundabouts provides vehicular access. The team provided all site, infrastructure and landscape design as well as the RFP development and design management for the facilities. Cost :\$22M Role: Landscape Architect	<input checked="" type="checkbox"/> Check if project performed with current firm
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(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Renovation of 1st Cavalry Headquarters Fort Hood, Texas	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2018	2019

d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: \$46M renovation of a 130K SF Army Division Headquarters and Command Operations Facility including renovations of all administrative/office, an Operations Center, Network Operations Center and Sensitive Compartmented Information Facility served by an exterior Tactical SCI Vehicle Area, including a Special Technical Operations Facility. Design of temporary swing space was also required. Provided full design construction documents and specifications (SpecsIntact) for the civil, structural, mechanical, electrical, telecom, plumbing and landscape disciplines. The site included increased parking improvements while still meeting AT/FP and ABA. The new mechanical systems were designed to exceed ASHRAE 90.1 by greater than 20%. Operationally critical areas of the facility were provided with redundant HVAC and the entire facility is served by a back-up generator in the event of a primary electrical failure. Cost: \$46M Role: Landscape Architect	<input checked="" type="checkbox"/> Check if project performed with current firm
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(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Sims Bayou Trail – Houston, TX	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2017	2018

e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The team provided civil engineering, surveying and landscape architecture in the preparation of conceptual designs and construction document packages. Designs included 2.25 miles of hike and bike trails, accessible crossings at street intersections, protective mesh fencing adjacent to the golf course, seating areas with benches and bike racks, selective tree clearing, and landscaping utilizing native species adapted to both drought and flood conditions. Costs: \$8M Role: Lead Landscape Architect	<input checked="" type="checkbox"/> Check if project performed with current firm
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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE
WILLIAM WALLACE, PE, SECB, MLSE	STRUCTURAL ENGINEER	a. TOTAL b. WITH CURRENT FIRM
		42 11

15. FIRM NAME AND LOCATION (City and State)

MSMM HUITT-ZOLLARS JV | Fort Worth, Texas

16. EDUCATION (Degree and Specializing)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
1982, MS, Civil Engineering (Structures), University of Texas at Arlington 1978, BS, Civil Engineering, University of Texas at Arlington	Professional Engineer - Structural: TX, 1986, #59641; NM, 2015, #22715; OK, 2014, #27607; FL, 2015, #79230; Professional Engineer - Civil: WA, 2015, #52055

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

William has been involved in the design of many highly complex structures for military and civil works construction programs including buildings in seismic zones, dormitories, aircraft hangars, warehouses, maintenance facilities, religious education centers, border patrol stations, air traffic control towers, pallheliet storage facilities, and general office space. Before joining HZ William spent 19 years with SWF where he served as chief structural engineer.

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	BAK 12/14 Aircraft Arresting System (AAS) Biggs Army Airfield Fort Bliss, Texas	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2014	2015

a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope:	The team developed DBB construction contract packages to support the installation of the BAK 12/14 AAS at two sites on the runway at Biggs Army Airfield. The BAK 12/14 AAS is a cable arresting system for tail-hook equipped aircraft experiencing an emergency. The team provided full plans and specs (SpecsIntact) and design in Civil 3D / BIM incorporating government furnished mechanical equipment installed by the contractor. In addition to full design, The team provided programming, DD1391 development, PDRI analysis and construction phase support. Cost Estimates were prepared in MII. Cost: \$5.8M Role: Lead Structural Engineer	

b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Update Dynamometer Facility and Equipment at Bldg. 373 Red River Army Depot, Texarkana, Texas	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2017	2018

b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope:	The team performed a planning charrette, VE study and prepared 100% DBB design, specifications (in SpecsIntact) and design analysis for the \$22M update and renovation of the Dynamometer Facility, Bldg. 373 and dynamometers and associated equipment. Design included architectural, civil, structural (AT/FP & Progressive Collapse to meet UFC 4-0910-01), Mechanical (HVAC design to meet ASHRAE 90.1-2007), Plumbing, Electrical, Fire Protection to meet UFC 3-600-01, Communications, SID and CID. Cost estimates were prepared in MII. Cost: CCL, \$22M Role: Lead Structural Engineer	

c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Renovation of 1st Cavalry Headquarters Fort Hood, Texas	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2018	2019

c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope:	\$46M renovation of a 130K SF Army Division Headquarters and Command Operations Facility including renovations of all administrative/office, an Operations Center, Network Operations Center and Sensitive Compartmented Information Facility served by an exterior Tactical SCI Vehicle Area, including a Special Technical Operations Facility. Design of temporary swing space was also required. Provided full design construction documents and specifications (SpecsIntact) for the civil, structural, mechanical, electrical, telecom, plumbing and landscape disciplines. The site included increased parking improvements while still meeting AT/FP and ABA. The new mechanical systems were designed to exceed ASHRAE 90.1 by greater than 20%. Operationally critical areas of the facility were provided with redundant HVAC and the entire facility is served by a back-up generator in the event of a primary electrical failure. Cost: \$46M Role: Lead Structural Engineer	

d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Repair Medical Warehouse, Building 11156 Fort Bliss, Texas	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2020	2021

d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope:	The complete renovation and repair to the 55,000 SF Building 11156, which is occupied by the Equipment Management Branch, Supply Chain Management Branch and Shared Support Administrative Areas. The existing roofing system is being removed down to the metal deck. The new roof replacement was designed to be an 80-mil thick Thermoplastic Polyolefin Roofing System. Additionally, existing openings associated with the two masonry flues for boiler stacks and 11 industrial metal roof vents on the Property Management side of the warehouse roof are being removed, in-filled with code compliant substrate and a new roofing system installed. Cost: \$7.4M Role: Lead Structural Engineer	

e.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	CCAD Hangar 8 Renovation DB RFP Corpus Christi Army Depot, Texas	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2018	N/A

e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope:	Preparation of a design-build RFP for the renovation and repair to one of the major maintenance bays of the 1.2M SF facility. This complex project includes a major overhaul of the systems and facility layout of approximately 70K SF. The project includes upgrades to comply applicable codes, UFCs and standards for all electrical, structural, fire suppression, HVAC, concrete floor repairs. Services included a charrette to gather the user's specific requirements, validate the 1391 and prepare a ENG Form 3086. The team then prepared a design-build RFP, performed a structural evaluation and participated in the value engineering study with an independent design team. Cost: \$20M Role: Lead Structural Engineer	



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W9126G-20-R-0041 - SMALL BUSINESS Headquarters 1st Cavalry Division

January 5, 2022

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME BRION ECHOLS, PE	13. ROLE IN THIS CONTRACT STRUCTURAL ENGINEER	14. YEARS EXPERIENCE a. TOTAL 23	b. WITH CURRENT FIRM 18
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15. FIRM NAME AND LOCATION (City and State)

MSMM HUITT-ZOLLARS JV | Fort Worth, Texas

16. EDUCATION (Degree and Specializing) 1998, MS, Civil Engineering (Structural), Purdue University 1997, BS, Civil Engineering (Structural), University of Tennessee	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer - Structural: TX, 2003, #91760; PA, 2020, #PE091474
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Brion's structural engineering experience includes designing various building types such as commercial, educational, and industrial for both public and private sector clients. He has designed buildings in reinforced concrete, prestressed concrete, steel, masonry, and wood using all current design codes. Brion has worked on projects throughout the southwest United States.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State) Renovation of 1st Cavalry Headquarters Fort Hood, Texas	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) 2019

a. Scope: \$46M renovation of a 130K SF Army Division Headquarters and Command Operations Facility including renovations of all administrative/office, an Operations Center, Network Operations Center and Sensitive Compartmented Information Facility served by an exterior Tactical SCI Vehicle Area, including a Special Technical Operations Facility. Design of temporary swing space was also required. Provided full design construction documents and specifications (SpecsIntact) for the civil, structural, mechanical, electrical, telecom, plumbing and landscape disciplines. The site included increased parking improvements while still meeting AT/FP and ABA. The new mechanical systems were designed to exceed ASHRAE 90.1 by greater than 20%. Operationally critical areas of the facility were provided with redundant HVAC and the entire facility is served by a back-up generator in the event of a primary electrical failure. Cost: \$46M Role: Structural Engineer	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm

(1) TITLE AND LOCATION (City and State) Repair Medical Warehouse, Building 11156 Fort Bliss, Texas	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) 2021

b. Scope: The complete renovation and repair to the 55,000 SF Building 11156, which is occupied by the Equipment Management Branch, Supply Chain Management Branch and Shared Support Administrative Areas. The existing roofing system is being removed down to the metal deck. Additionally, existing openings associated with the two masonry flues for boiler stacks and 11 industrial metal roof vents on the Property Management side of the warehouse roof are being removed, in-filled with code compliant substrate and a new roofing system installed. Cost: \$7.4M Role: Structural Engineer	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm

(1) TITLE AND LOCATION (City and State) CCAD Hangar 8 Renovation DB RFP Corpus Christi Army Depot, Texas	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) N/A

c. Scope: Preparation of a design-build RFP for the renovation and repair to one of the major maintenance bays of the 1.2M SF facility. This complex project includes a major overhaul of the systems and facility layout of approximately 70K SF. The project includes upgrades to comply with applicable codes, UFCs and standards for all electrical, structural, fire suppression, HVAC, concrete floor repairs. Services included a charrette to gather the user's specific requirements, validate the 1391 and prepare a ENG Form 3086. The team then prepared a design-build RFP, performed a structural evaluation and participated in the value engineering study with an independent design team. Cost: \$20M Role: Structural Engineer	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm

(1) TITLE AND LOCATION (City and State) Renovate B5676 and Hangar B6426 – Barksdale AFB, LA	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) 2016

d. Scope: Revised floor plan layouts were developed for B5676 to meet the program and user needs. New HVAC, Electrical, Fire Alarm/Mass Notification and Fire Suppression system were designed to meet ASHRAE 90.1. B6426 Hangar 4 was renovated in place with the building occupied and operational thru out. The existing kitchen and day room were relocated from the ground floor to the second to make room for two additional Apparatus bays increasing capacity from 4 to 6 vehicles. B6426 Hangar 3 was gutted with selective demolition and asbestos abatement. All MEP systems were removed to leave a clean slate for future renovation. Cost \$7.7M Role: Structural Engineer	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm

(1) TITLE AND LOCATION (City and State) DTRA Headquarters CCD Kirtland Air Force Base, New Mexico	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) 2016

e. Scope: The DTRA Headquarters currently occupies over 12 buildings and consists of 18 departments at Kirtland Air Force Base. Most of these buildings were constructed during the 1950's and are approaching the end of their useful life. The team conducted extensive information gathering sessions and design reviews to develop a concept design and funding request document (DD1391) to consolidate the DTRA Headquarters into a single three-story structure to house all DTRA operations. Cost: \$121M Role: Structural Engineer	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm



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January 5, 2022

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME JOHN COFFERY, PE, SE	13. ROLE IN THIS CONTRACT STRUCTURAL ENGINEER	a. TOTAL 22	b. WITH CURRENT FIRM 12
15. FIRM NAME AND LOCATION (City and State) MICHAEL BAKER INTERNATIONAL Midvale, Utah			
16. EDUCATION (Degree and Specializing) B.S.C.E., 1998, Civil Engineering, Brigham Young University			

17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)

Professional Engineer - Civil/Structural: Rhode Island, 2015, #11452; Alabama, 2015, #35458; Arkansas, 2015, #16801; Kansas, 2014, #23975; California, 2004, #66412; South Carolina, 2015, #32759; Virginia, 2015, #54617
Professional Engineer - Structural: Utah, 2003, #4770040

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Coffey has an expansive portfolio of new structural design and rehabilitation projects for federal facilities, notably in high seismic demand areas. As a lead structural engineer, he has conducted many visual site investigations in numerous buildings to obtain existing condition information when as-built documentation is lacking. On similar projects, Mr. Coffey guided junior staff in processing the existing condition information and calculating the new retrofit designs needed. He is well-versed in the review of structural drawings, plans, and calculations; and brings that knowledge and experience to his renovation projects to provide logical and cost-efficient solutions for problems that existing buildings experience over their lifetime.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State) USACE Fort Worth District Warriors in Transition (WT) Barracks Design Fort Sam Houston, Texas	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2011	CONSTRUCTION (If applicable) 2011
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Responsible for the foundation system design which is composed of concrete grade beams being supported on concrete piles for the apartment-style WT barracks comprised of 180 living units that can house up to 360 soldiers who have been released from medical facilities. Coordinated a team of five structural engineers in the design of the super-structure. Co-located to the construction site to perform full time construction administration. Cost: \$2.8M (Fee); \$48.4M (Construction) Role: Structural Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (City and State) USACE Fort Worth District Warriors in Transition Barracks Design Fort Hood, Texas	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Responsible for coordinating the structural design of the foundation system, which was designed by another engineering firm, for the apartment-style WT barracks comprises 180 living units that can house up to 320 soldiers who have been released from medical facilities. Coordinated a team of ten structural engineers in the design of the super-structure. The facility was designed to achieve a LEED Silver Certificate and was registered with the U.S. Green Building Council. Cost: \$2.5M (Fee); \$40.9M (Construction) Role: Structural Engineer	PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable) 2012
c.	(1) TITLE AND LOCATION (City and State) USACE Fort Worth District Warriors in Transition Barracks Design Fort Polk, Louisiana	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Supervised a team of engineers who designed the 24-inch thick mat foundation for the main building for this three-story, 67,480 SF facility that will house 112 soldiers in 56 dwelling units. Reviewed the light gage metal stud manufacturer's design of the super-structure, both structural drawings and structural calculations. Site improvements include utility infrastructure, asphalt and concrete paving, sidewalks, courtyard with picnic pavilion, landscaping, and a multi-use trail. Cost: \$1.1M (Fee); \$17.3M (Construction) Role: Structural Engineer/Engineer of Record	PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) 2013
d.	(1) TITLE AND LOCATION (City and State) Fuel Cell and Corrosion Control Hangar Design Cannon Air Force Base, New Mexico	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Performed an independent technical review of the structural design for two new Special Operations Forces Fuel Cell and Corrosion Control hangars. Design elements included utilities; storm drainage; plumbing; communications; electrical; heating, ventilation, and air conditioning; energy management control systems; force protection measures; paving; walks; curbs; parking; access roads; exterior lighting; site improvements; grading; and landscaping. The facilities were designed to achieve a LEED Silver Rating. Cost: \$1.6M (Fee); \$39.1M (Construction) Role: Structural Engineer	PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) 2013
e.	(1) TITLE AND LOCATION (City and State) USACE Fort Worth District Warriors in Transition Complex Fort Bliss, Texas	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Responsible for the design of the structural systems for the foundation and the three-story, 139,780 SF wood superstructure which can house 232 injured soldiers. The team served as the designer of record for the design-build Warriors in Transition complex. Services included civil, landscape architecture, architectural, interior design, electrical, communications, mechanical, plumbing, fire protection and structural design. Cost: \$1.9M (Fee); \$32.6M (Construction) Role: Structural Engineer	PROFESSIONAL SERVICES 2011	CONSTRUCTION (If applicable) 2011



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January 5, 2022

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE
WILLIAM HOELSCHER, RA, LEED AP	ARCHITECT	a. TOTAL 33 b. WITH CURRENT FIRM 21
a.	b.	

15. FIRM NAME AND LOCATION (City and State)

MSMM HUITT-ZOLLARS JV | Fort Worth, Texas

16. EDUCATION (Degree and Specializing)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
1988, MA, Architecture, University of Texas Arlington 1984, BA, Arts, University of Dallas	Registered Architect: Texas, 1992, #14074; Washington, 2014, #10939; LEED Accredited Professional, 2006

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Hoelscher has experience providing complete architectural and space planning services to dozens of clients for one-time and multiple unit projects of varying types and sizes. His work has included restaurants, offices, retail outlets, industrial facilities, and residences. His experience also includes providing design for Corps of Engineer and Department of Homeland Security projects.

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
	Maneuver Systems Sustainment Center (MSSC), Bldg. 373 Dynamometer Facility Red River Army Depot, Texarkana, Texas	2017	2018

a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope:	The MSSC is a new facility that achieves consolidation of multiple functions into a single facility. The functions served by the facility include disassembly, rebuild, and metal finishing, body repair, painting, and preparation of present and future tactical vehicles, including their major components and control systems. The MSSC is one of only three such army depots in the nation. Cost: \$209M Role: Architect	
	(1) TITLE AND LOCATION (City and State) BAK 12/14 Aircraft Arresting System (AAS) Biggs Army Airfield Fort Bliss, Texas	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable) 2015

b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope:	The team developed DBB construction contract packages to support the installation of the BAK 12/14 AAS at two sites on the runway at Biggs Army Airfield. The BAK 12/14 AAS is a cable arresting system for tail-hook equipped aircraft experiencing an emergency. The team provided full plans and specs (SpecsIntact) and design in Civil 3D / BIM incorporating government furnished mechanical equipment installed by the contractor. In addition to full design, The team provided programming, DD1391 development, PDRI analysis and construction phase support. Cost Estimates were prepared in MII. Cost: \$5.8M Role: Architect	
	(1) TITLE AND LOCATION (City and State) Renovation of Historic Buildings B5676 and Hangar B6426 Barksdale Air Force Base, Louisiana	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) 2016

c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope:	Revised floor plan layouts were developed for B5676 to meet the program and user needs. New HVAC, Electrical, Fire Alarm/Mass Notification and Fire Suppression system were designed to meet ASHRAE 90.1. B6426 Hangar 4 was renovated in place with the building occupied and operational thru out. The existing kitchen and day room were relocated from the ground floor to the second to make room for two additional Apparatus bays increasing capacity from four to six vehicles. B6426 Hangar 3 was gutted with selective demolition and asbestos abatement. All MEP systems were removed to leave a clean slate for future renovation. Cost: \$7.7M Role: Architect	
	(1) TITLE AND LOCATION (City and State) CCAD Hangar 8 Renovation DB RFP Corpus Christi Army Depot, Texas	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) N/A

d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope:	Preparation of a design-build RFP for the renovation and repair to one of the major maintenance bays of the 1.2M square foot facility. This complex project includes a major overhaul of the systems and facility layout of approximately 70K square feet. The project includes upgrades to comply with applicable codes, UFCs and standards for all electrical, structural, fire suppression, HVAC, concrete floor repairs. Services included a charrette to gather the user's specific requirements, validate the 1391 and prepare a ENG Form 3086. The team then prepared a design-build RFP, performed a structural evaluation and participated in the value engineering study with an independent design team. The design team continued support through the bidding phase with responses to RFIs and pre-proposal conference presentations. The design-build RFP was prepared in accordance with the AEIM and was submitted at each design phase with MII cost estimates. The project originally had a CCL of \$12.1M; however, after the charrette an ENG 3086 was complete, the project was reprogramed for \$20M. Cost: \$20M (Construction) Role: Architect	
	(1) TITLE AND LOCATION (City and State) Repair/Renovate Dormitories 10070 and 10075 Lackland AFB, Texas	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) 2014

e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope:	This project consists of the repair and renovation of Dormitories 10070 and 10075 at Lackland AFB in San Antonio, TX. The dormitories were constructed in 1993 and subsequently operated with only sustainment level repairs and maintenance for almost thirty years. Due to the age and general condition of the dormitories, it became necessary to implement building repairs and renovate several safety systems in order for the buildings to become code compliant and to remove all mold-infested materials. Each dormitory houses 168 Navy MA School students. Cost: \$12M Role: Architect	
	(1) TITLE AND LOCATION (City and State) Repair/Renovate Dormitories 10070 and 10075 Lackland AFB, Texas	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) 2014



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Headquarters 1st Cavalry Division

January 5, 2022

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME RANDALL HICKEY, RA, RID, NCARB	13. ROLE IN THIS CONTRACT ARCHITECT	14. YEARS EXPERIENCE a. TOTAL 41	b. WITH CURRENT FIRM 27
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15. FIRM NAME AND LOCATION (City and State)

MSMM HUITT-ZOLLARS JV | Houston, Texas

16. EDUCATION (Degree and Specializing)

1980, Bachelor of Architecture, University of Houston

17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)

Registered Architect: TX, 1986, #11553; MI, 1987, #33840; OK, 2002, #a4428; Registered Interior Designer: TX, 1993, #4251

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Hickey is responsible for design concepts, schematic design, design development and managing the flow of work during the complete project from conception to completion. He brings a deep personal interaction that involves all members of the customer's team. He centers his design on the user's needs and expectation's as well as aesthetic contexts. He integrates the exterior and interior spaces with flowing spatial relationships that included natural light, coordinated colors, textures and acoustical qualities.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Repair Medical Warehouse, Building 11156 Fort Bliss, Texas	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2020	2021

a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: The complete renovation and repair to the 55,000 SF Building 11156, which is occupied by the Equipment Management Branch, Supply Chain Management Branch and Shared Support Administrative Areas. The existing roofing system is being removed down to the metal deck. The new roof replacement was designed to be an 80-mil thick Thermoplastic Polyolefin Roofing System. Additionally, existing openings associated with the two masonry flues for boiler stacks and 11 industrial metal roof vents on the Property Management side of the warehouse roof are being removed, in-filled with code compliant substrate and a new roofing system installed. Cost: \$7.4M Role: Architect	<input checked="" type="checkbox"/> Check if project performed with current firm
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(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Renovation of Historic Buildings B5676 and Hangar B6426 – Barksdale Air Force Base, LA	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2016	2016

b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Revised floor plan layouts were developed for B5676. New HVAC, Electrical, Fire Alarm/Mass Notification and Fire Suppression system were designed to meet ASHRAE 90.1. B6426 Hangar 4 was renovated in place with the building occupied and operational thru out. The existing kitchen and day room were relocated from the ground floor to the second to make room for two additional Apparatus bays increasing capacity from 4 to 6 vehicles. B6426 Hangar 3 was gutted with selective demolition and asbestos abatement. All MEP systems were removed to leave a clean slate for future renovation. Cost: \$7.7M Role: Architect	<input checked="" type="checkbox"/> Check if project performed with current firm
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(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
CCAD Hangar 8 DB RFP – Corpus Christi Army Depot, TX	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2017	N/A

c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Preparation of a design-build RFP for the renovation and repair to one of the major maintenance bays of the 1.2M square foot facility. This complex project includes a major overhaul of the systems and facility layout of approximately 70K square feet. The project includes upgrades to comply with applicable codes, UFCs and standards for all electrical, structural, fire suppression, HVAC, concrete floor repairs. Services included a charrette to gather the user's specific requirements, validate the 1391 and prepare a ENG Form 3086. The team then prepared a design-build RFP, performed a structural evaluation and participated in the value engineering study with an independent design team. The design team continued support through the bidding phase with responses to RFIs and pre-proposal conference presentations. The design-build RFP was prepared in accordance with the AEIM and was submitted at each design phase with MII cost estimates. Cost: \$20M (Construction) Role: Architect	<input checked="" type="checkbox"/> Check if project performed with current firm
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(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Repair/Renovate Dormitories 10070 and 10075 Lackland AFB, Texas	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2013	2014

d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: This project consists of the repair and renovation of Dormitories 10070 and 10075 at Lackland AFB in San Antonio, TX. The dormitories were constructed in 1993 and subsequently operated with only sustainment level repairs and maintenance for almost thirty years. Due to the age and general condition of the dormitories, it became necessary to implement building repairs and renovate several safety systems in order for the buildings to become code compliant and to remove all mold-infested materials. Each dormitory houses 168 Navy MA School students. Cost: \$12M Role: Architect	<input checked="" type="checkbox"/> Check if project performed with current firm
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(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Bureau of Engraving and Printing Facility Expansion – Fort Worth, TX	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2018	2020

e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Expansion of the BEP production facility by 250,000 SF and the administration area by 50,000 SF with an additional 70,000 SF of renovation. The facility will be upgraded to meet BEP and IBC standards for HVAC, Electrical/Lighting/Communication/Security Systems, and Plumbing. Site improvements include a new access control point, parking, and redundant utility connections. The administration facility was designed in phases to allow temporary relocation of the 250 personnel working in the admin space. All new facilities were designed to meet all current ASHRAE 90.1 and EISA 439. LEED principles were followed but not registered. Cost: \$150M (Construction) Role: Architect	<input checked="" type="checkbox"/> Check if project performed with current firm
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W9126G-20-R-0041 - SMALL BUSINESS**

January 5, 2022

Headquarters 1st Cavalry Division

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME JOE WELLS, RA, RID	13. ROLE IN THIS CONTRACT ARCHITECT	14. YEARS EXPERIENCE a. TOTAL 23	b. WITH CURRENT FIRM 15
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15. FIRM NAME AND LOCATION (City and State)

MSMM HUITT-ZOLLARS JV | Fort Worth, Texas

16. EDUCATION (Degree and Specializing) 1986, Bachelor of Architecture, Texas Tech University	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Registered Architect: 1994/Texas/#14503; Registered Interior Designer: 1994/Texas/#7748
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Joe Wells has more than 20 years of architectural experience with extensive experience in complex building types and management of multi-discipline teams. He is an accomplished Program Manager, adept at multiple facility roll-outs, prototype design, and implementation. He provides architectural design and project management for retail distribution, higher education, laboratory, and industrial assignments.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State) Repair Medical Warehouse, Building 11156 Fort Bliss, Texas	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) 2021

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm

- a. **Scope:** The complete renovation and repair to the 55,000 SF Building 11156, which is occupied by the Equipment Management Branch, Supply Chain Management Branch and Shared Support Administrative Areas. The existing roofing system is being removed down to the metal deck. The new roof replacement was designed to be an 80-mil thick Thermoplastic Polyolefin Roofing System. Additionally, existing openings associated with the two masonry flues for boiler stacks and 11 industrial metal roof vents on the Property Management side of the warehouse roof are being removed, in-filled with code compliant substrate and a new roofing system installed. Cost: \$7.4M Role: Architect

(1) TITLE AND LOCATION (City and State) Fort Bliss Hospital Infrastructure – Fort Bliss, TX	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) 2019

- b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm
Scope: The team provided all civil engineering and site design for the 1.13M SF world class medical center. Coordinated infrastructure requirements and design for the hospital buildings, central utility plant and other support facilities. Access control points and surface parking lots for 4,000 spaces were designed. New 1.5MG water storage and 4 miles of offsite sewer with lift stations support the site. Size: 300 Acres, \$85M Construction Role: Architect

(1) TITLE AND LOCATION (City and State) JLENS BAT I Phase II UEPH, Tac Training Sites, TAFSS Facility Fort Bliss, El Paso, TX	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable) 2014

- c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm
Scope: The team was selected by the USACE Fort Worth District to provide engineering and architecture services for three JLENS (Joint Land Attack Cruise Missile Defense Elevated Netted Sensor) projects: Battery I, Phase 2 (UEPH) Main Cantonment Area of Fort Bliss; Tactical Training Sites USACAS Range Complex of Fort Bliss; and Training Aids Devices Simulators and Simulation (TADSS) Facility Main Cantonment Area of Fort Bliss. Cost: Construction Value: \$45,590,000; Total Fee: \$2,657,849 Role: Architect

(1) TITLE AND LOCATION (City and State) AFCEC Sustainable Infrastructure Assessment (SIA) Program 11 locations Nationwide, US Air Force	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) N/A

- d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm
Scope: Project consists of Facility Condition Assessments and Real Property Installed Equipment data entry in CERL's BUILDER program, ASHRAE Level 2 energy audit, space utilization surveys in the Air Force GIS-based S-file, and a real property inventory audit for Hill AFB, Whiteman AFB, Wright Patterson AFB, and nine Air Force Reserve and Air National Guard bases nationwide. This project was performed for the Air Force to allow for long-term capital planning, and included research of the existing systems including technical analysis of existing MEP systems and photographic archiving of existing physical plant systems. This research and analysis included examination of all building systems to determine if alternative/more efficient energy measures could be taken to improve the facility as well as to provide a long-term economic payback. Size: 33.3 million SF Specific Role: Installation Manager

(1) TITLE AND LOCATION (City and State) Mahon Federal Courthouse Window Replacement Fort Worth, Texas	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) 2015

- e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm
Scope: Wells served as Project Manager for the production of Design-Bid-Build Construction documents for the repair of the existing windows at the Eldon B. Mahon Federal Courthouse in Fort Worth, Texas. The Mahon Federal Courthouse was constructed in 1932 of limestone masonry. Operating cast aluminum windows were installed on the east, west, and north elevations. The building was listed in the National Register of Historic Places in 2001. The team conducted interior and exterior surveys, ASTM E 283 air infiltration testing, and ASTM E 331 water penetration testing, working with Historic Preservation Architect Karl Komatsu, in order to support final design recommendations. Cost: \$250,000 Specific Role: Architect



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE
SCOTT PARMA, PE, LEED AP	ELECTRICAL ENGINEER	a. TOTAL 40 b. WITH CURRENT FIRM 17
a.	b.	

15. FIRM NAME AND LOCATION (*City and State*)

MSMM HUITT-ZOLLARS JV | Fort Worth, Texas

16. EDUCATION (<i>Degree and Specializing</i>)	17. CURRENT PROFESSIONAL REGISTRATION (<i>State and Discipline</i>)
1981, BS, Electrical Engineering, Texas A&M University	Professional Engineer: 1993/Electrical/Texas #75690 LEED Accredited Professional, 2006

18. OTHER PROFESSIONAL QUALIFICATIONS (*Publications, Organizations, Training, Awards, etc.*)

Mr. Parma's engineering experience includes power distribution, electrical systems analysis, system planning, and electrical system design and construction administration. He has completed a wide variety of projects in the utility, transportation, and vertical construction markets for both private and government clients. Parma has been the lead electrical engineer for the team's major design assignments for all military and federal projects.

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
	Renovation of 1st Cavalry Headquarters Fort Hood, Texas	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope: \$46M renovation of a 130K SF Army Division Headquarters and Command Operations Facility including renovations of all administrative/office, an Operations Center, Network Operations Center and Sensitive Compartmented Information Facility served by an exterior Tactical SCI Vehicle Area, including a Special Technical Operations Facility. Design of temporary swing space was also required. Provided full design construction documents and specifications (SpecsIntact) for the civil, structural, mechanical, electrical, telecom, plumbing and landscape disciplines. The site included increased parking improvements while still meeting AT/FP and ABA. The new mechanical systems were designed to exceed ASHRAE 90.1 by greater than 20%. Operationally critical areas of the facility were provided with redundant HVAC and the entire facility is served by a back-up generator in the event of a primary electrical failure. Cost: \$46M Role: Lead Electrical Engineer	2018	2019
b.	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
	Repair Medical Warehouse, Building 11156 - Fort Bliss, TX	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope: The complete renovation and repair to the 55,000 SF Building 11156, which is occupied by the Equipment Management Branch, Supply Chain Management Branch and Shared Support Administrative Areas. The existing roofing system is being removed down to the metal deck. The new roof replacement was designed to be an 80-mil thick Thermoplastic Polyolefin Roofing System. Additionally, existing openings associated with the two masonry flues for boiler stacks and 11 industrial metal roof vents on the Property Management side of the warehouse roof are being removed, in-filled with code compliant substrate and a new roofing system installed. Cost: \$7.4M Role: Lead Electrical Engineer	2020	2021
c.	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
	Renovation of Historic Buildings B5676 and Hangar B6426 – Barksdale Air Force Base, LA	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope: Revised floor plan layouts were developed for B5676 to meet the program and user needs. New HVAC, Electrical, Fire Alarm/Mass Notification and Fire Suppression system we designed to meet ASHRAE 90.1. B6426 Hangar 4 was renovated in place with the building occupied and operational thru out. The existing kitchen and day room were relocated from the ground floor to the second to make room for two additional Apparatus bays increasing capacity from four to six vehicles. B6426 Hangar 3 was gutted with selective demolition and asbestos abatement. All MEP systems were removed to leave a clean slate for future renovation. Cost: \$7.7M Role: Lead Electrical Engineer	2016	2016
d.	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
	Update Dynamometer Facility and Equipment at Bldg. 373 – Red River Army Depot, Texarkana, TX	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope: The team performed a planning charrette, VE study and prepared 100% DBB design, specifications (in SpecsIntact) and design analysis for the \$22M update and renovation of the Dynamometer Facility, Bldg. 373 and dynamometers and associated equipment. The design incorporated the "Energy Conservation Guidelines" and considered LEED criteria all of which was documented in the design analysis. A feasibility study analyzing different options for relocation of all utilities and replacing the centralized cooling water system. Design included architectural, civil, structural (AT/FP & Progressive Collapse to meet UFC 4-0910-01), Mechanical (HVAC design to meet ASHRAE 90.1-2007), Plumbing, Electrical, Fire Protection to meet UFC 3-600-01, Communications, SID and CID. Cost estimates were prepared in MII. Costs: \$22M Role: Lead Electrical Engineer	2017	2018
e.	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
	BAK 12/14 Aircraft Arresting System (AAS) Biggs Army Airfield Fort Bliss, Texas	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope: The team developed DBB construction contract packages to support the installation of the BAK 12/14 AAS at two sites on the runway at Biggs Army Airfield. The BAK 12/14 AAS is a cable arresting system for tail-hook equipped aircraft experiencing an emergency. The team provided full plans and specs (SpecsIntact) and design in Civil 3D / BIM incorporating government furnished mechanical equipment installed by the contractor. In addition to full design, The team provided programming, DD1391 development, PDRI analysis and construction phase support. Cost Estimates were prepared in MII. Cost: \$5.8M Role: Lead Electrical Engineer	2014	2015



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME LEONARD CARTHON, PE, RA, LEED AP	13. ROLE IN THIS CONTRACT ELECTRICAL ENGINEER	14. YEARS EXPERIENCE a. TOTAL 47	b. WITH CURRENT FIRM 17
15. FIRM NAME AND LOCATION (City and State) MSMM HUITT-ZOLLARS JV Houston, Texas			
16. EDUCATION (Degree and Specializing) 1976, Bachelor of Architecture, Auburn University 1975, BS, Building Construction, Auburn University 1969, BS, Electrical Engineering, Auburn University	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer - Electrical: 1980 / Colorado / #17040; 1983 / Texas / #53945; 1988 / Georgia / #PE017499 Registered Architect: 1982 / Texas / #8913 Registered Interior Designer: 1993 / Texas / #589		

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Leonard's vast experience includes electrical engineering and analysis, military master planning, facilities planning, recreational planning and architecture. He has a diverse array of projects including military facility design, industrial and research campus design, utilities master planning, environmental assessments and/or impact statements, and architectural and electrical facility design for laboratories, explosives operations and containment facilities, and nuclear processing, storage, and handling facilities.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State) Repair Medical Warehouse, Building 11156 - Fort Bliss, TX	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) 2021
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: The complete renovation and repair to the 55,000 SF Building 11156, which is occupied by the Equipment Management Branch, Supply Chain Management Branch and Shared Support Administrative Areas. The existing roofing system is being removed down to the metal deck. Additionally, existing openings associated with the two masonry flues for boiler stacks and 11 industrial metal roof vents on the Property Management side of the warehouse roof are being removed, in-filled with code compliant substrate and a new roofing system installed. Cost: \$7.4M Role: Electrical Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (City and State) BAK 12/14 Aircraft Arresting System (AAS) Biggs Army Airfield Fort Bliss, Texas	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: The team developed DBB construction contract packages to support the installation of the BAK 12/14 AAS at two sites on the runway at Biggs Army Airfield. The BAK 12/14 AAS is a cable arresting system for tail-hook equipped aircraft experiencing an emergency. The team provided full plans and specs (SpecsIntact) and design in Civil 3D / BIM incorporating government furnished mechanical equipment installed by the contractor. In addition to full design, The team provided programming, DD1391 development, PDRI analysis and construction phase support. Cost Estimates were prepared in MII. Cost: \$5.8M Role: Electrical Engineer	PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable) 2015
c.	(1) TITLE AND LOCATION (City and State) Renovation of Historic Buildings B5676 and Hangar B6426 – Barksdale Air Force Base, LA	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Revised floor plan layouts were developed for B5676 to meet the program and user needs. New HVAC, Electrical, Fire Alarm/Mass Notification and Fire Suppression system we designed to meet ASHRAE 90.1. B6426 Hangar 4 was renovated in place with the building occupied and operational thru out. The existing kitchen and day room were relocated from the ground floor to the second to make room for two additional Apparatus bays increasing capacity from four to six vehicles. All MEP systems were removed to leave a clean slate for future renovation. Cost: \$7.7M Role: Electrical Engineer	PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) 2016
d.	(1) TITLE AND LOCATION (City and State) CCAD Hangar 8 DB RFP – Corpus Christi Army Depot, TX	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Preparation of a design-build RFP for the renovation and repair to one of the major maintenance bays of the 1.2M square foot facility. This complex project includes a major overhaul of the systems and facility layout of approximately 70K square feet. The project includes upgrades to comply with applicable codes, UFCs and standards for all electrical, structural, fire suppression, HVAC, concrete floor repairs. Services included a charrette to gather the user's specific requirements, validate the 1391 and prepare a ENG Form 3086. The team then prepared a design-build RFP, performed a structural evaluation and participated in the value engineering study with an independent design team. The design-build RFP was prepared in accordance with the AEIM and was submitted at each design phase with MII cost estimates. Cost: \$20M (Construction) Role: Electrical Engineer	PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable) N/A
e.	(1) TITLE AND LOCATION (City and State) Repair/Renovate Dormitories 10070 and 10075 Lackland AFB, Texas	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: This project consists of the repair and renovation of Dormitories 10070 and 10075 at Lackland AFB in San Antonio, TX. The dormitories were constructed in 1993 and subsequently operated with only sustainment level repairs and maintenance for almost thirty years. Due to the age and general condition of the dormitories, it became necessary to implement building repairs and renovate several safety systems in order for the buildings to become code compliant and to remove all mold-infested materials. Each dormitory houses 168 Navy MA School students. Cost: \$12M Role: Architect	PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) 2014



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
JEFF ROBERTS, PE, RCDD, LEED AP	ELECTRICAL ENGINEER	30	4

15. FIRM NAME AND LOCATION (City and State)

MSMM HUITT-ZOLLARS JV | Fort Worth, Texas

16. EDUCATION (Degree and Specializing)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
1987, BS, Electrical Engineering, Louisiana State University	Professional Engineer: All States and DC: 1995/TX/#80669; 1998/LA/#28070; 1998/NM/#14206; 1998/AR/#9629; 1998/OK/#19004; Registered Communications Distribution Designer; LEED Accredited Prof

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Roberts is an electrical engineer with experience in project management, the design of interior and exterior lighting and electrical power distribution systems, medium voltage distribution systems, HVAC systems, plumbing systems, fire protection systems, telecommunications systems, security and fire alarm systems for a diverse range of facility types. These include hospitals, schools, offices, airports, churches, multifamily dwellings, retail sales, restaurants, and industrial, federal, military, large warehousing and distribution centers and telecommunications switch facilities.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Repair Medical Warehouse, Building 11156 - Fort Bliss, TX	2020	2021

a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm
	Scope: The [REDACTED] to the 55,000 SF Building 11156, which is occupied by the Equipment Management Branch, Supply Chain Management Branch and Shared Support Administrative Areas. The existing roofing system is being removed down to the metal deck. Additionally, existing openings associated with the two masonry flues for boiler stacks and 11 industrial metal roof vents on the Property Management side of the warehouse roof are being removed, in-filled with code compliant substrate and a new roofing system installed. Cost: \$7.4M Role: Electrical Engineer	

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Renovation of 1st Cavalry Headquarters Fort Hood, Texas	2018	2019

b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm
	Scope: \$46M renovation of a 130K SF Army Division Headquarters and Command Operations Facility including renovations of all administrative/office, an Operations Center, Network Operations Center and Sensitive Compartmented Information Facility served by an exterior Tactical SCI Vehicle Area, including a Special Technical Operations Facility. Design of temporary swing space was also required. Provided full design construction documents and specifications (SpecsIntact) for the civil, structural, mechanical, electrical, telecom, plumbing and landscape disciplines. The site included increased parking improvements while still meeting AT/FP and ABA. The new mechanical systems were designed to exceed ASHRAE 90.1 by greater than 20%. Operationally critical areas of the facility were provided with redundant HVAC and the entire facility is served by a back-up generator in the event of a primary electrical failure. Cost: \$46M Role: Electrical Engineer	

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
USDA Fruit Fly Rearing and Release Facility – Moore Air Base, TX	2020	2022

c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm
	Scope: This facility will support the USDA Agriculture and Plant Health Inspection Service (APHIS) Preventive Release Program with the goal of rearing 400 million sterile fruit flies per week. The project also includes extensive process engineering support for the diet processing, sorting, drying, and larvae seeding procedures and operations. Fourteen robotic machines are planned to assist production and reduce manual procedures to minimize the handling of as much as 60 tons of physical inventory per week. In addition to the industrial process engineering, the design team is providing civil, structural, mechanical, fire protection, and electrical engineering as well as architectural design. The contract also includes design, construction and warranty phase building commissioning services. Cost: \$58M Role: Electrical Engineer	

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Bell Building 24 Lab Expansion – Fort Worth, TX	2020	2022

d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm
	Scope: Planning and design of new destructive testing space; build new galley style break room; expand chemical and processes analytical lab; build new lab space for MTS equipment; build new clean room; update field investigation lab; reconfigure the cubicles throughout the office space; update both lab conference rooms; update the HVAC system; and update the interior to current standards including repainting and new flooring. Cost: \$3.5M Role: Electrical Engineer	

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Renovations of Building 1959 – Fort Carson, CO	2018	2019

e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm
	Scope: This design-build project upgraded an existing building on the army base to allow multiple users to provide enhanced services as they further their missions. The design team provided the architectural, structural, mechanical, and electrical engineering services for the renovation of this two-story building. A new floor plan required structural modifications as well as upgraded mechanical and electrical systems throughout the building. Cost: \$243K (fee) Role: Electrical Engineer	



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME JEFFREY WILSON, PE, LEED AP	13. ROLE IN THIS CONTRACT MECHANICAL ENGINEER	14. YEARS EXPERIENCE a. TOTAL 17	b. WITH CURRENT FIRM 17
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15. FIRM NAME AND LOCATION (City and State)

MSMM HUITT-ZOLLARS JV | Fort Worth, Texas

16. EDUCATION (Degree and Specializing)

2003, BS, Mechanical Engineering, University of Texas Arlington
1998, BS, Architecture, University of Texas Arlington

17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)

Professional Engineer - Mechanical: 2009/TX/#103832; 2012/CA/M36160;
2014/MD/#45121; 2013/NM/#21194; 2013/WA/#49618

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Wilson has served as the senior mechanical engineer on large military programs for Air Force, Army, Navy, and Guard projects during his career. His design experience has included new construction and facility renovations. He is an expert in engineering analyses and studies related to energy conservation/reduction, LEED, and ASHRAE 90.1, and has performed detailed HVAC design requirements and load simulations.

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State) Maneuver Systems Sustainment Center (MSSC), Bldg. 373 Dynamometer Facility Red River Army Depot, Texarkana, Texas	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2017 CONSTRUCTION (If applicable) 2018	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	

Scope: The Maneuver Systems Sustainment Center (MSSC) is a new facility that achieves consolidation of multiple functions into a single facility. The functions served by the facility include disassembly, rebuild, metal finishing, body repair, painting, and preparation of present and future tactical vehicles, including their major components and control systems. The MSSC is one of only three such army depots in the nation. **Cost:** \$209M **Role:** Lead Mechanical Engineer

b.	(1) TITLE AND LOCATION (City and State) Renovation of 1st Cavalry Headquarters Fort Hood, Texas	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2018 CONSTRUCTION (If applicable) 2019	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	

Scope: Renovation of a 130K SF Army Division Headquarters and Command Operations Facility including renovations of all administrative/office, an Operations Center, Network Operations Center and Sensitive Compartmented Information Facility served by an exterior Tactical SCI Vehicle Area, including a Special Technical Operations Facility. Design of temporary swing space was also required. Provided full design construction documents and specifications (SpecsIntact) for the civil, structural, mechanical, electrical, telecom, plumbing and landscape disciplines. The site included increased parking improvements while still meeting AT/FP and ABA. The new mechanical systems were designed to exceed ASHRAE 90.1 by greater than 20%. Operationally critical areas of the facility were provided with redundant HVAC and the entire facility is served by a back-up generator in the event of a primary electrical failure. **Cost:** \$46M **Role:** Lead Mechanical Engineer

c.	(1) TITLE AND LOCATION (City and State) Repair Medical Warehouse, Building 11156 Fort Bliss, Texas	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2020 CONSTRUCTION (If applicable) 2021	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	

Scope: The 55,000 SF project scope provided for complete renovation and complete repair to Building 11156, which is occupied by the Equipment Management Branch (EMB), Supply Chain Management Branch (SCMB) and Shared Support Administrative Areas. The existing roofing system is being removed down to the metal deck. The new roof replacement was designed to be an 80-mil thick Thermoplastic Polyolefin (TPO) Roofing System. Existing openings associated with the two masonry flues for boiler stacks and 11 industrial metal roof vents on the Property Management side of the warehouse roof are being removed and in-filled with code compliant substrate and a new roofing system installed. **Cost:** \$7.4M **Role:** Lead Mechanical Engineer

d.	(1) TITLE AND LOCATION (City and State) Renovation of Historic Buildings B5676 and Hangar B6426 Barksdale Air Force Base, Louisiana	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2016 CONSTRUCTION (If applicable) 2016	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	

Scope: Revised floor plan layouts were developed for B5676 to meet the program and user needs. New HVAC, Electrical, Fire Alarm/Mass Notification and Fire Suppression system were designed to meet ASHRAE 90.1. B6426 Hangar 4 was renovated in place with the building occupied and operational thru out. The existing kitchen and day room were relocated from the ground floor to the second to make room for two additional Apparatus bays increasing capacity from 4 to 6 vehicles. B6426 Hangar 3 was gutted with selective demolition and asbestos abatement. All MEP systems were removed to leave a clean slate for future renovation. **Cost:** \$7.7M **Role:** Lead Mechanical Engineer

e.	(1) TITLE AND LOCATION (City and State) Renovations of Buildings 900 at JBSA/Lackland AFB San Antonio, Texas	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2017 CONSTRUCTION (If applicable) 2020	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	

Scope: Building 900 is an existing concrete tiltwall building originally constructed as a fire station and expanded twice in the past. The design-build team renovated the building for use by the 433 Contingency Response Flight. Work included the relocation of the airfield security fence, the addition of two free standing canopies, installation of a new fire water service, the addition of an ABA compliant entry ramp, and the resolution of a storm water ponding issue located in the parking area. The building is approximately 3772 SF and was fully renovated to include the interior walls, ceilings and floors, restroom layouts and fixtures, lighting fixtures, electrical power and data communication, HVAC system, domestic water distribution system, fire alarm and mass notification system, and a new fire sprinkler system. **Cost:** \$2M **Role:** Lead Mechanical Engineer



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W9126G-20-R-0041 - SMALL BUSINESS**

January 5, 2022

Headquarters 1st Cavalry Division

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME JAIME ESPINOSA, PE, LEED AP	13. ROLE IN THIS CONTRACT MECHANICAL ENGINEER	14. YEARS EXPERIENCE a. TOTAL 18	b. WITH CURRENT FIRM 18
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15. FIRM NAME AND LOCATION (City and State)

MSMM HUITT-ZOLLARS JV | Fort Worth, Texas

16. EDUCATION (Degree and Specializing) 2004, BS, Mechanical Engineering, University of Texas at San Antonio	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer - Mechanical: TX, 2014, #117201; OK, 2014, #27514; LEED Accredited Professional
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Espinosa's experience includes design for new construction and renovations for federal buildings, educational, industrial, and commercial facilities. Espinosa is also experienced with construction administration, whether it is as a design professional or as an on-site field representative. His HVAC experience includes designing around hydronic four-pipe system with chillers and cooling towers, ground-source heat pumps, packaged rooftop systems, computer room systems and other HVAC systems. Espinosa has provided mechanical design efforts for many projects located in Texas, Oklahoma, New Mexico and other states and is knowledgeable of the various Codes and Standards.

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State) Renovation of 1st Cavalry Headquarters Fort Hood, Texas	(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (If applicable) 2018 2019	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Renovation of a 130K SF Army Division Headquarters and Command Operations Facility including renovations of all administrative/office, an Operations Center, Network Operations Center and Sensitive Compartmented Information Facility served by an exterior Tactical SCI Vehicle Area, including a Special Technical Operations Facility. Design of temporary swing space was also required. Provided full design construction documents and specifications (SpecsIntact) for the civil, structural, mechanical, electrical, telecom, plumbing and landscape disciplines. The site included increased parking improvements while still meeting AT/FP and ABA. The new mechanical systems were designed to exceed ASHRAE 90.1 by greater than 20%. Operationally critical areas of the facility were provided with redundant HVAC and the entire facility is served by a back-up generator in the event of a primary electrical failure. Cost: \$46M Role: Mechanical Engineer		

b.	(1) TITLE AND LOCATION (City and State) Maneuver Systems Sustainment Center (MSSC), Bldg. 373 Dynamometer Facility Red River Army Depot, Texarkana, Texas	(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (If applicable) 2017 2018	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: The Maneuver Systems Sustainment Center (MSSC) is a new facility that achieves consolidation of multiple functions into a single facility. The functions served by the facility include disassembly, rebuild, metal finishing, body repair, painting, and preparation of present and future tactical vehicles, including their major components and control systems. The MSSC is one of only three such army depots in the nation. Cost: \$209M Role: Mechanical Engineer		

c.	(1) TITLE AND LOCATION (City and State) Renovation of Historic Buildings B5676 and Hangar B6426 Barksdale Air Force Base, Louisiana	(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (If applicable) 2016 2016	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Revised floor plan layouts were developed for B5676 to meet the program and user needs. New HVAC, Electrical, Fire Alarm/Mass Notification and Fire Suppression system were designed to meet ASHRAE 90.1. B6426 Hangar 4 was renovated in place with the building occupied and operational thru out. The existing kitchen and day room were relocated from the ground floor to the second to make room for two additional Apparatus bays increasing capacity from 4 to 6 vehicles. B6426 Hangar 3 was gutted with selective demolition and asbestos abatement. All MEP systems were removed to leave a clean slate for future renovation. Cost: \$7.7M Role: Mechanical Engineer		

d.	(1) TITLE AND LOCATION (City and State) DOL BII Storage Facility, TMP Dispatchers Facility and TMP Maintenance Inspection Facility Fort Polk, LA	(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (If applicable) 2016 2017	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Provided full design for the \$2.35M project of three new metal facilities, a DOL BII Storage Facility, TMP Dispatchers' Facility, and TMP Maintenance/Inspection Facility, (Storage: 3,600 SF/ Dispatch: 3,000 SF/ Maintenance: 2,800 SF). The design included three new metal facilities, a DOL BII Storage Facility, TMP Dispatch Facility, and TMP Maintenance/Inspection Facility, to include foundation design and construction and ancillary site improvements to ensure positive waterflow away from the facilities. Cost: \$2.3M Role: Mechanical Engineer		

e.	(1) TITLE AND LOCATION (City and State) Bureau of Engraving and Printing Facility Expansion – Fort Worth, TX	(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (If applicable) 2018 2020	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Expansion of the BEP production facility by 250,000 SF and the administration area by 50,000 SF with an additional 70,000 SF of renovation. The facility will be upgraded to meet BEP and IBC standards for HVAC, Electrical/Lighting/Communication/Security Systems, and Plumbing. Site improvements include a new access control point, parking, and redundant utility connections. The administration facility was designed in phases to allow temporary relocation of the 250 personnel working in the admin space. All new facilities were designed to meet all current ASHRAE 90.1 and EISA 439, LEED principles were followed but not registered. Cost: \$150M (Construction) Role: Mechanical Engineer		



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
SERGEY ALEKSANYAN, PE, LEED AP	MECHANICAL ENGINEER	50	26

15. FIRM NAME AND LOCATION (City and State)

MSMM HUITT-ZOLLARS JV | Fort Worth, Texas

16. EDUCATION (Degree and Specializing)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
1971, Master's Degree, Engineering, Azerbaijan Industrial University	Professional Engineer: 2001/Mechanical/Texas #88080

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

During his 26 years with the firm, Sergey Aleksanyan has been responsible for designing and developing heating, ventilating, and air conditioning (HVAC) systems for various governmental, educational, commercial and residential buildings. He has performed project quality control, prepared proposals for design-build projects, provided construction administration, and supervised junior engineers employed by the mechanical department.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Repair Medical Warehouse, Building 11156 Fort Bliss, Texas	2020	2021

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
a. Scope: The 55,000 SF project scope provided for complete renovation and repair to Building 11156, which is occupied by the Equipment Management Branch (EMB), Supply Chain Management Branch (SCMB) and Shared Support Administrative Areas. The existing roofing system is being removed down to the metal deck. The new roof replacement was designed to be an 80-mil thick Thermoplastic Polyolefin (TPO) Roofing System. Existing openings associated with the two masonry flues for boiler stacks and 11 industrial metal roof vents on the Property Management side of the warehouse roof are being removed and in-filled with code compliant substrate and a new roofing system installed. Cost: \$7.4M Role: Mechanical Engineer	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
CCAD Hangar 8 DB RFP – Corpus Christi Army Depot, TX	2017	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
b. Scope: Preparation of a design-build RFP for the renovation and repair to one of the major maintenance bays of the 1.2M square foot facility. This complex project includes a major overhaul of the systems and facility layout of approximately 70K square feet. The project includes upgrades to comply with applicable codes, UFCs and standards for all electrical, structural, fire suppression, HVAC, concrete floor repairs. Services included a charrette to gather the user's specific requirements, validate the 1391 and prepare a ENG Form 3086. The team then prepared a design-build RFP, performed a structural evaluation and participated in the value engineering study with an independent design team. The design team continued support through the bidding phase with responses to RFIs and pre-proposal conference presentations. The design-build RFP was prepared in accordance with the AEIM and was submitted at each design phase with MII cost estimates. Cost: \$20M (Construction) Role: Mechanical Engineer	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Repair Warehouse (B4845) for LRS/CE Consolidation Barksdale AFB, Louisiana	2016	2016

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
c. Scope: This project is a \$7M Air Force warehouse 228,600 SF renovation. The project replaced substandard facilities previously occupied by some Civil Engineer (CE) shops and reduces the facilities footprint at Barksdale AFB by consolidation with the Logistics Readiness Squadron (LRS). The renovation was designed using sustainable aesthetically pleasing, functional, durable finishes appropriate to the building's function and construction was phases for partial occupation of the building by LRS. The team provided construction drawings and specifications for all disciplines. Phasing and construction sequencing was critical as the building remained occupied during construction. Use of durable and sustainable materials was maximized. Cost: \$7M Role: Mechanical Engineer	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
JLENS BAT I Phase II UEPH, Tac Training Sites, TAFSS Facility Fort Bliss, El Paso, TX	2012	2014

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
d. Scope: The team was selected by the USACE Fort Worth District to provide engineering and architecture services for three JLENS (Joint Land Attack Cruise Missile Defense Elevated Netted Sensor) projects: Battery I, Phase 2 (UEPH) Main Cantonment Area of Fort Bliss; Tactical Training Sites USACAS Range Complex of Fort Bliss; and Training Aids Devices Simulators and Simulation (TADSS) Facility Main Cantonment Area of Fort Bliss. Cost: Construction Value: \$45,590,000; Total Fee: \$2,657,849 Role: Mechanical Engineer	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Maneuver Systems Sustainment Center, Phase 3, Main Building Red River Army Depot, Texarkana, Texas	2013	2016

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
e. The Maneuver Systems Sustainment Center (MSSC) is a new facility that achieves consolidation of multiple functions into a single facility. The functions served by the facility include disassembly, rebuild, metal finishing, body repair, painting and preparation of present and future tactical vehicles, including their major components and control systems. The MSSC is one of only three such army depots in the nation. Size: 233K SF Cost: \$39M Role: Senior Mechanical Engineer	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME KEVIN SPANGLER, PE	13. ROLE IN THIS CONTRACT FIRE PROTECTION ENGINEER	14. YEARS EXPERIENCE a. TOTAL 13	b. WITH CURRENT FIRM 12
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15. FIRM NAME AND LOCATION (City and State)

MICHAEL BAKER INTERNATIONAL | Midvale, Utah

16. EDUCATION (Degree and Specializing) M.S., 2008, Fire Protection Engineering, University of Maryland, College Park Campus B.S., 2006, Agricultural and Biological Engineering, The Pennsylvania State University	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer, Texas, 2017, #129150; Oklahoma, 2018, #30530; Louisiana, 2021, #PE.0045337; California, 2011, #1758; Washington, D.C., 2019, #PE921807; Pennsylvania, 2012, #PE080542; Mississippi, 2017, #27937; North Carolina, 2018, 047274; Ohio, 2019, #PE.84082; Connecticut, 2015, #0031007; Minnesota, 2016, #53795; Nevada, 2017, #024759; South Carolina, #2016, 33050; New York, 2014, #093491; Idaho, 2014, #15849; Georgia, 2017, #PE042835; Virginia, 2012, #0402051429; Michigan, 2018, #6201066621; Florida, 2019, #87043; Utah, 2018, #10977138-2202; Kansas, 2018, #26384
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Spangler is a registered fire protection engineer experienced with fire protection, life safety design, and detection systems. He routinely provides design services and performance of independent technical quality reviews for fire protection designs, including sprinklers and fire alarms, and review of life safety analysis. Mr. Spangler has provided services for numerous DoD facilities such as laboratories, fuel cell and corrosion control hangars, shipping and receiving facilities, storage facilities and warehouses, administrative and office buildings, training centers, vehicle maintenance facilities, and hotel, dormitories, and barracks. He has applied knowledge and experience with NFPA codes 70 and 101 along with UFC 3-600-01, Design: Fire Protection Engineering for Facilities.

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State) USACE Fort Worth District Warriors in Transition Barracks Design Fort Hood, Texas	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable) 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Provided fire protection design including sprinklers, fire alarm and mass notification systems to meet the requirements of the RFP, UFC and NFPA codes for the apartment-style WT barracks comprised of 180 living units that can house up to 320 soldiers. Performed life safety analysis for complete compliance with NFPA 101, IBC, and the UFC criteria. The barracks building included an outdoor courtyard used for passive recreation and vehicular parking. Cost: \$2.5M (Fee); \$40.9M (Construction) Role: Fire Protection Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (City and State) USACE Fort Worth District Warriors in Transition Barracks Design Fort Polk, Louisiana	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Reviewed life safety drawings and analysis performed by the contractor leading the design-build for a Warriors in Transition (WT) Barracks and site work project. The barracks is a three-story, 67,480 SF facility that will house 112 soldiers in 56 dwelling units. Cost: \$1.1M (Fee); \$17.3M (Construction) Role: Fire Protection Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION (City and State) USACE Albuquerque District Fuel Cell and Corrosion Control Hangar Design Cannon Air Force Base, New Mexico	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Prepared fire alarm, fire protection, and life safety drawings for the new Special Operations Forces Fuel Cell Hanger and reviewed drawings for the Corrosion Control Hanger. Design elements included utilities; storm drainage; plumbing; communications; electrical; heating, ventilation and air conditioning; energy management control systems; force protection measures; paving; walks; curbs; parking; access roads; exterior lighting; site improvements; grading; and landscaping. The facilities were designed to achieve a LEED Silver Rating. Cost: \$1.6M (Fee); \$39.1M (Construction) Role: Fire Protection Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION (City and State) USACE Albuquerque District B301 UAS Formal Training Unit Aircraft Maintenance Hangar Renovation Holloman Air Force Base, New Mexico	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Responsible for fire protection design, including a fire alarm and mass notification system design and sprinkler and foam system design analysis to meet the requirements of the RFP, UFC, ETL and NFPA codes. Performed life safety analysis for complete compliance with NFPA 101, IBC, ETL and the UFC criteria. This includes classifying occupancies, occupant load calculations, egress analysis, and rated separations. Cost: \$680.5M (Fee); \$10.2M (Construction) Role: Fire Protection Engineer of Record	<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION (City and State) USACE Fort Worth District Barracks/Company Operations Facilities Design (B/COF) Fort Sill, Oklahoma	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Provided technical review of the fire protection and life safety systems for two new three-story, 93,000 SF standard B/COF and one 2,000 SF Lawn Equipment Building. The technical review included drawings and specifications for the fire alarm system, fire sprinkler system and the life safety code requirements for the building. Cost: \$1.5M (Fee) Role: Mechanical Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME NATHAN VANDER ROEST, PE	13. ROLE IN THIS CONTRACT FIRE PROTECTION ENGINEER	14. YEARS EXPERIENCE a. TOTAL 19	b. WITH CURRENT FIRM 3
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15. FIRM NAME AND LOCATION (*City and State*)

ALLIANCE WSP JV | Alexandria, Virginia

16. EDUCATION (*Degree and Specializing*)

BS, Fire Protection Engineering, University of Maryland, 2002

17. CURRENT PROFESSIONAL REGISTRATION (*State and Discipline*)

Professional Engineer: DC - PE904579 (FPE)

VA - 042252 (FPE)

MD - 32913 (FPE) - Additional states available

18. OTHER PROFESSIONAL QUALIFICATIONS (*Publications, Organizations, Training, Awards, etc.*)

Certified Facility Manager (CFM); LEED GA; USACE - Construction Quality Management for Contractors (CQM-C); Past Committee Member - NFPA 101/5000 Means of Egress

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (*City and State*)

Phlebotomy Lab and Corridor Update

VA Medical Center Ann Arbor, MI

(2) YEAR COMPLETED

PROFESSIONAL SERVICES

CONSTRUCTION (If applicable)

2019

N/A

a.

(3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE

Check if project performed with current firm

Fire Protection Engineer. Mr. Vander Roest included fire protection systems in renovations to the existing clinical space, corridors, and adjacent spaces. Renovations will result in new phlebotomy suite, clinical suite, and call center. Project will be completed in phases. Size: 21,450sf | Cost: \$4.27M

(1) TITLE AND LOCATION (*City and State*)

Building 1W Upgrades

VA Medical Center, Ann Arbor, MI

(2) YEAR COMPLETED

PROFESSIONAL SERVICES

CONSTRUCTION (If applicable)

2019

N/A

b.

(3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE

Check if project performed with current firm

Fire Protection Engineer. Mr. Vander Roest included fire protection systems in renovations to the existing audiology and ENT clinical spaces and corridors in the West Building 1W. The renovations will result in an expanded ENT clinic, relocation of PFT clinic and renovations to speech pathology. Size 7,025sf | Cost \$907,548

(1) TITLE AND LOCATION (*City and State*)

P313 MH-60R Facility

NAS Rota, Spain

(2) YEAR COMPLETED

PROFESSIONAL SERVICES

CONSTRUCTION (If applicable)

2019

2022

c.

(3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE

Check if project performed with current firm

Fire Protection Engineer. Mr. Vander Roest included required fire protection and physical security to project. The project included Preliminary Design Authority (PDA) services with facility planning, schematic design and cost engineering services for a new Type 1 aircraft maintenance hangar and aviation maintenance shop. Size: 92,128sf | Cost: \$68.7M

(1) TITLE AND LOCATION (*City and State*)

Communications Hub Relocation

Marine Barracks Washington, DC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES

CONSTRUCTION (If applicable)

2018

N/A

d.

(3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE

Check if project performed with current firm

Fire Protection Engineer. This project required conversion of an existing space to include infrastructure modifications, interior alternations to include architectural, electrical, communications, mechanical and fire protection systems for a communication center. Mr. Vander Roest was responsible for fire protection systems. Size: 700sf | Cost: \$2.3M

(1) TITLE AND LOCATION (*City and State*)

P810 EOD Facility

NAS Rota, Spain

(2) YEAR COMPLETED

PROFESSIONAL SERVICES

CONSTRUCTION (If applicable)

2018

2022

e.

(3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE

Check if project performed with current firm

Fire Protection Engineer. Mr. Vander Roest included required fire protection and physical security to project providing Preliminary Design Authority (PDA) services to include facility planning, schematic design and cost engineering services for a new ordnance disposal shop, expeditionary module unit, and medical aid station. Size: 59,000sf | Cost: \$23.8M



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME ELIZABETH KROUSEL, PE	13. ROLE IN THIS CONTRACT ENVIRONMENTAL ENGINEER	14. YEARS EXPERIENCE a. TOTAL 30	b. WITH CURRENT FIRM 14
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15. FIRM NAME AND LOCATION (City and State)

MICHAEL BAKER INTERNATIONAL | Midvale, Utah

16. EDUCATION (Degree and Specializing) M.S., 1991, Environmental Engineering, University of Texas at Austin B.S., 1988, Civil Engineering, Louisiana State University	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer, Louisiana, 2019, #43870; Georgia, 2000, #025745
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Ms. Krousel has provided technical oversight and/or managed various federal environmental projects, including waste reduction, pollution prevention, stormwater pollution prevention plans (SWPPPs); illicit discharge surveys; illicit discharge detection and elimination programs; spill prevention, control, and countermeasure plans; landfill control plans; surface mine closure plans; stream buffer variance permits; erosion and sedimentation control plans; air quality attainment plans; groundwater and surface water monitoring and wastewater pretreatment device monitoring and assessment. She has also been involved in the development of regulatory frameworks for compliance with water resources regulations, oil and hazardous substance spills regulations and hazardous and solid waste management requirements.

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State) NAVFAC Mid-Atlantic 2020 Stormwater BMP Tracking and Inspections Hampton Roads Region, Virginia	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) N/A
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Communicated with the client on project needs, coordination of project deliverables, and adherence to budget and schedule requirements for the annual inspection of over 350 stormwater management facilities located at eight different Naval installations. This included the Naval Station Norfolk within Public Works Department; Joint Expeditionary Base (JEB) Little Creek, EB Fort Story, and Naval Air Station Oceana and Dam Neck Annex. Cost: \$202.3K (Fee) Role: Environmental Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
		PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) N/A
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Coordinated with NAVFAC and the project team to ensure the consistent submittal of high quality deliverables for the development of more than 100 stormwater best management practices at multiple U.S. Navy installations to support the municipal separate storm sewer systems (MS4) permit and compliance with the Chesapeake Bay total maximum daily load requirements. Services included field assessment surveys, conceptual design, pollutant load reduction calculations, and cost estimates. Cost: \$891.7K (Fee) Role: Environmental Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
		PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) N/A
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Coordinated with NAVFAC and the project team to complete illicit discharge survey and annual site compliance evaluation inspections, update the installation's SWPPP, finalize an inventory of the cooling towers and boilers to meet the requirements of the industrial stormwater permit, and compiled data and prepared the application to reapply for a Virginia Pollutant Discharge Elimination System industrial stormwater permit to comply with regulatory requirements. Cost: \$277.2K (Fee) Role: Environmental Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
		PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable) N/A
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Coordinated with Fort Gordon and the project team to prepare the sampling and analysis plan, quality assurance project plan, and health and safety plan for the NPDES monitoring of the eight permitted landfills. This required a surface water sampling and analysis in a watershed-based approach, using upstream and downstream sampling locations at each landfill. After the surface waters under possible influence of a landfill were identified, corrective actions were prepared and a landfill surface water monitoring plan was developed. Cost: \$111K (Fee) Role: Environmental Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
		PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Developed a stream buffer variance permitting application for a golf course on Fort Gordon. Managed identification and characterization of critical areas of erosion throughout the installation, including development of conceptual designs for BMPs and order of magnitude costs to stabilize prioritized areas and to and Sedimentation Plan. Assessed potential of bridge polluting Headstahl Creek and identified recommended best management practices (BMPs) to restore water quality in Headstahl Creek and restore the site. Oversaw development of surface mine closure plans for five mineral industrial sites, including a summary report. Developed stream buffer variance permitting application for a golf course on Fort Gordon in compliance with the Georgia Water Quality Control Act, the State Erosion and Sedimentation Act and Georgia and local stream buffer regulations. Cost: \$630.9K (Fee) Role: Environmental Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
		PROFESSIONAL SERVICES 2011	CONSTRUCTION (If applicable) N/A



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE
GREGORY GARCED, PE	GEOTECHNICAL ENGINEER	a. TOTAL 34 b. WITH CURRENT FIRM 14

15. FIRM NAME AND LOCATION (City and State)

MICHAEL BAKER INTERNATIONAL | Dallas, Texas

16. EDUCATION (Degree and Specializing)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
B.S., 1986, Civil Engineering - Geotechnical/Structural, University of South Florida, Tampa	Professional Engineer, Texas, 1999, #85760 OSHA 10-Hour Construction Outreach Training, 2016 Stormwater Qualified Credentialled Inspector, 2017 11.1.1 Roadway Construction Management and Inspection, Texas

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Garced has expertise in geotechnical engineering, which includes many years in field supervisory roles, overseeing subcontractors, development of field testing programs, and project engineer and project management experience. In addition, he has experience in on site construction management and oversight working with military construction units on Department of Homeland Security projects and the Texas Department of Transportation.

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	USACE Fort Worth District Advanced Training Center Facilities Design Oversight Harpers Ferry, West Virginia	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope: Performed quality control/quality assurance (QA/QC) for geotechnical related design issues of the existing plans for the development of construction documents for the Advanced Training Center for the Shower/Locker Room Facility, Dining Facility, Welcome/Security Command Center, and Dormitory/Conference Area. Responsibilities included review of geotechnical reports, design plans, and recommendations for the planned structures. Cost: \$560.7K (Fee) Role: Geotechnical Engineer		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
b.	USACE Fort Worth District Engineering Services for Enhancement of the Presidential Emergency Radio Transmission Facilities Nationwide, U.S.	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope: Conducted a forensic geotechnical evaluation of an existing fallout/hurricane shelter that appeared to be experiencing settlement. Responsibilities included a site visit to observe visual signs of distress to the structure, reviewing construction plans and geotechnical reports, and providing a report presenting alternatives to remediate the settlement issues. Under a design-build relationship with a contractor, Michael Baker conducted site evaluations, designed prototype structures for transmitters and generators, and prepared site designs at 35 locations to upgrade the presidential radio broadcast system. Cost: \$1.47M (Fee) Role: Geotechnical Engineer		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
c.	USACE Fort Worth District Arizona Border Check Point Design, Tucson Sector Various Locations, Arizona	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope: Provided geotechnical services for the final design and environmental studies required for three interim Tucson Sector Border Patrol checkpoints and conceptual design and environmental studies required for one permanent Tucson Sector Border Patrol checkpoint located on state and interstate highways. The interim checkpoints required large canopies to be installed along with temporary Border Patrol facilities needed to support operations adjacent to the existing state or interstate highways. Cost: \$1.48M (Fee) Role: Geotechnical Engineer		
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
d.	USACE Fort Worth District Engineering Design for El Centro Sector West Desert All Weather Road Calexico, California	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope: Reviewed project alignment, soils reports, and materials recommendations in support of Customs and Border Protection's Border Patrol Facilities and Tactical Infrastructure Program Management Office for the West Desert All Weather Road Improvements, Phases A & B project. This included the design of improvements to bring the existing road to all-weather status and designed the addition of a drag road along with a new 1/3-mile-long, 16-foot-wide access road to the top of BP Hill. Improvements included grading, subgrade preparation, compacted aggregate surface course, drainage improvements, and installation of traffic warning signs and traffic barriers. Cost: \$426.5K (Fee) Role: Geotechnical Engineer		
e.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
e.	USACE Fort Worth District Remote Video Surveillance Systems (RVSS) Upgrade Program New Tower Construction Southwest, U.S.	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope: Provided geotechnical engineering and construction observation services in support of the U.S. Customs and Border Protection Facilities Management and Engineering Border Patrol Facilities and Tactical Infrastructure Program Management Office, which manages the Office of Technology Innovation and Acquisition RVSS Upgrade Program, New Tower Construction for the Tucson and Yuma Sectors in Arizona. This included 35-percent concept design for 26 tower sites, including tower foundation, tower primary and backup power and equipment, parking, and related access roads and 95-percent and 100-percent designs for 20 of the 26 final approved tower sites, including tower foundations, tower primary and backup power lines and equipment, parking, and related access roads. Following the completion of the 100-percent design, a total of three requests for proposals were completed. Cost: \$2.1M (Fee) Role: Geotechnical Engineer		



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME ROBERT ARMSTRONG, PE, CFM	13. ROLE IN THIS CONTRACT HYDRAULIC ENGINEER	14. YEARS EXPERIENCE a. TOTAL 35	b. WITH CURRENT FIRM 17
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15. FIRM NAME AND LOCATION (City and State)

MSMM HUITT-ZOLLARS JV | Dallas, Texas

16. EDUCATION (Degree and Specializing) 1986, BS, Civil Engineering, University of Oklahoma	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer (1991): TX (87107), NE (E7244), OK (21127), WA (43982) Certified Floodplain Manager (2838-15N)
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Rob is experienced in civil engineering site development, open channel hydraulics, channel restoration, geomorphology, hydrologic analyses, storm water analysis, master planning and design, bridge hydraulic and scour studies, and FEMA modeling and permitting.

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State) Fort Bliss Hospital Infrastructure Fort Bliss, Texas	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) 2019	

a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: The project included all civil engineering and site design for the 1.13M SF world class medical center. Coordinated infrastructure requirements and design for the hospital buildings, central utility plant and other support facilities. Access control points and surface parking lots for 4,000 spaces were designed. New 1.5MG water storage and four miles of offsite sewer with lift stations support the site. Cost: \$85M Role: Hydraulic Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
	PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) 2019	

b.	(1) TITLE AND LOCATION (City and State) BAK 12/14 Aircraft Arresting System (AAS) Biggs Army Airfield Fort Bliss, Texas	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable) 2015	

b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: The team developed DBB construction contract packages to support the installation of the BAK 12/14 AAS at two sites on the runway at Biggs Army Airfield. The BAK 12/14 AAS is a cable arresting system for tail-hook equipped aircraft experiencing an emergency. The team provided full plans and specs (SpecsIntact) and design in Civil 3D / BIM incorporating government furnished mechanical equipment installed by the contractor. In addition to full design, The team provided programming, DD1391 development, PDRI analysis and construction phase support. Cost Estimates were prepared in MII. Cost: \$5.8M Role: Hydraulic Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
	PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable) 2015	

c.	(1) TITLE AND LOCATION (City and State) Fort Sam Houston Master Drainage Plan San Antonio, Texas	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable) N/A	

c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: The project included a stormwater master plan for over 3,000 acres, providing an inventory assessment of existing drainage facilities, including inlets, pipes, ditches, and culverts both on and off the installation. Analysis was performed using Infoworks SD and HEC-RAS. Floodplain mapping was performed for multiple recurrence interval storms. Rob served as the lead civil engineer and task manager of the storm water study for the evaluation and assessment of the installed existing capacity of the storm water system at Fort Sam Houston in San Antonio, Texas, building a two-dimensional hydrodynamic model using InfoWorks SD; and for the delineation of the floodplain of the tributaries in the installation, using HEC-HMS and HEC-RAS software. Cost: Fee: \$329K Role: Hydraulic Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
	PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable) N/A	

d.	(1) TITLE AND LOCATION (City and State) Fort Bliss Main Cantonment Drainage Master Plan El Paso, Texas	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) N/A	

d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Preparation of a drainage master plan for the 4.5 square mile main cantonment area. Modeling was completed utilizing InfoWorks SD, implementing both 1D and 2D elements within the study. This complex storm water model included analysis of storm drains, ditches, open channels, culverts, pump stations, detention ponds and retention ponds. The analysis culminated in the development of recommended improvements which consisted of nine individual projects, each one addressing a specific flood risk area. Rob was the task manager for a master drainage study for Fort Bliss that identified major drainage patterns, collector facilities, and drainage concepts and constraints to be used during the analysis of major infill projects on the main cantonment area of Fort Bliss. Cost: Fee: \$325K Role: Hydraulic Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) N/A	

e.	(1) TITLE AND LOCATION (City and State) Greater Houston Flood Mitigation Consortium Houston, Texas	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) N/A	

e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Provided Program Management and technical consulting for this project, the goal of which was the development of a consensus among regional stakeholders about flood mitigation measures and a master plan of identified projects to minimize the impact of flooding in the coastal Houston area. Cost: Fee: \$1.2M Role: Hydraulic Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
	PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) N/A	



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
	COST ESTIMATOR	a. TOTAL	b. WITH CURRENT FIRM
MARIA GATELA, CCP		22	11

15. FIRM NAME AND LOCATION (City and State)

EUDACORP | Fort Worth, Texas

16. EDUCATION (Degree and Specializing) BS in Civil Engineering- Divine Word University of Tacloban, Philippines, 1989 Masters in Fiscal Administration - Philippine School of Business Administration, Philippines, 2000	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) AACE International Certified Cost Professional (CCP)-2007, No. 2491-License #2491 Exp. 10/17/2022
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

MII, AVS, LEED AP - Cost Engineer Certification from AACE International. Proficient in the use of MII software, as well as PACES, Success, Timberline, MS Project, Primavera, and Excel; including estimating renewable energy technology costs.

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State) USACE- Ft Worth, Bureau of Engraving and Printing Facility Expansion-Ft Worth, TX Contract W9126G-15-D-0017	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Parking Lot Expansion, Security Fence line Relocation, Chemical Storage Bldg. The \$190M project expanded the BEP production facility by 250,000 SF and the administration area by 50,000 SF with an additional 70,000 SF of renovation. Size: 370,000 SF Cost: \$150M Role: MII Civil/Architectural Cost Estimator.	<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (City and State) USACE-Ft Worth, Trinity River Vision Ecosystem Restoration & Flood Mitigation Master Plan for the Trinity River in Fort Worth, TX	(2) YEAR COMPLETED	
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: DD 1391 budget evaluation, MII team production & QC. The plan includes a major restoration of the parks ecosystem, provide numerous and diverse recreational amenities and provides the necessary flood storage to ensure the viability of the Central City flood control project. Size: 88 Miles Cost: \$800M Role: MII Civil/Architectural Cost Estimator.	PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) N/A
c.	(1) TITLE AND LOCATION (City and State) USACE-Ft Worth,(CCAD)Hangar 8 Renovation, Corpus Christi, TX W9126G15D0017	(2) YEAR COMPLETED	
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: included removal of all lead based paint, repair 60,400 SF of high bay maintenance area and the exterior bay walls. Replacement of roofing system with a new roofing system and replacement of the exterior bay, aluminum siding walls and metal flashing. Size: 60,400 SF Cost: \$12M Role: MII Civil/Architectural Cost Estimator.	PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) N/A
d.	(1) TITLE AND LOCATION (City and State) USACE-Ft Worth, W9126G-17-D-0024 JBSA-LAK Sanitary Sewer Study, LAFB	(2) YEAR COMPLETED	
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Develop Parametric Design, Cost Estimate and Economic Feasibility Study of AF Concept #1, #2 & #3. Develop site plans to re-connect JBSA-LAK sanitary sewer laterals (currently connected to existing SAWS-owned, 54" Sanitary Sewer Main) Size: New 90-in main. Cost: Opt1=\$33.9M / Opt2=\$38.9M / Opt3=\$71.7M. Role: MII Civil/Architectural Cost Estimator	PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) 2025 (Est.)
e.	(1) TITLE AND LOCATION (City and State) USACE-Ft Worth, Design replacement Fire Protection System in Hangar 11108, Contract W9126G-17-D-0007 Fort Bliss FY18	(2) YEAR COMPLETED	
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Services required for the design to (Task 1) replace the existing fire protection system in Bldg 11108 and (Task 2, Opt 1) refurbish Bldg 515 to be used as an office/administrative building. Size: 150k SF Cost: \$12M-Task1 \$6M-Task 2 Role: MII Civil/Architectural Cost Estimator.	PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable) N/A



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME STEPHEN COBB, RPLS	13. ROLE IN THIS CONTRACT LAND SURVEYOR	14. YEARS EXPERIENCE a. TOTAL 29	b. WITH CURRENT FIRM 28
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15. FIRM NAME AND LOCATION (City and State)

MSMM HUITT-ZOLLARS JV | El Paso, Texas

16. EDUCATION (Degree and Specializing) BS – Land Surveying, 1993 (New Mexico State University) AS – Surveying, 1978 (University of Alaska, Anchorage)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) RPLS, Registered Professional Land Surveyor TX #4297, 1984 PLS, Professional Land Surveyor AZ #25068, 1991 RPLS, Registered Professional Land Surveyor NM #10472, 1988
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Stephen is a Survey Manager with HZ and has more than 35 years of overall experience in surveying. He has executed and supervised boundary, topographic, and control surveys; right-of-way mapping; interior and exterior improvement surveys; route surveys; and accident surveys for court litigations. His duties include supervision of field crews and drafters, data research (including use of GIS mapping products and Internet sources), boundary analysis, and preparation of legal descriptions.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State) Repair Medical Warehouse, Building 11156 Fort Bliss, Texas	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) 2021

a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: The complete renovation and repair to the 55,000 SF Building 11156, which is occupied by the Equipment Management Branch (EMB), Supply Chain Management Branch (SCMB) and Shared Support Administrative Areas. The existing roofing system is being removed down to the metal deck. The new roof replacement was designed to be an 80-mil thick Thermoplastic Polyolefin (TPO) Roofing System. Additionally, existing openings associated with the two masonry flues for boiler stacks and 11 industrial metal roof vents on the Property Management side of the warehouse roof are being removed, in-filled with code compliant substrate and a new roofing system installed. Cost: \$7.4M Role: Land Surveyor	<input checked="" type="checkbox"/> Check if project performed with current firm
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(1) TITLE AND LOCATION (City and State) Fort Bliss Hospital Infrastructure – Fort Bliss, TX	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) 2019

b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: The team provided all civil engineering and site design for the 1.13M SF world class medical center. Coordinated infrastructure requirements and design for the hospital buildings, central utility plant and other support facilities. Access control points and surface parking lots for 4,000 spaces were designed. New 1.5MG water storage and 4 miles of offsite sewer with lift stations support the site. Size: 300 Acres, \$85M Construction Role: Land Surveyor	<input checked="" type="checkbox"/> Check if project performed with current firm
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(1) TITLE AND LOCATION (City and State) BAK 12/14 Aircraft Arresting System (AAS) Biggs Army Airfield – Fort Bliss, TX	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable) 2015

c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: The team developed DBB construction contract packages to support the installation of the BAK 12/14 AAS at two sites on the runway at Biggs Army Airfield. The BAK 12/14 AAS is a cable arresting system for tail-hook equipped aircraft experiencing an emergency. The team provided full plans and specs (SpecsIntact) and design in Civil 3D / BIM incorporating government furnished mechanical equipment installed by the contractor. In addition to full design, The team provided programming, DD1391 development, PDRI analysis and construction phase support. Cost Estimates were prepared in MII. Cost: \$5.8M Role: Land Surveyor	<input checked="" type="checkbox"/> Check if project performed with current firm
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(1) TITLE AND LOCATION (City and State) CCAD Hangar 8 Renovation DB RFP – Corpus Christi Army Depot, TX	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) N/A

d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Preparation of a design-build RFP for the renovation and repair to one of the major maintenance bays of the 1.2M SF facility. This complex project includes a major overhaul of the systems and facility layout of approximately 70K SF. The project includes upgrades to comply applicable codes, UFCs and standards for all electrical, structural, fire suppression, HVAC, concrete floor repairs. Services included a charrette to gather the user's specific requirements, validate the 1391 and prepare a ENG Form 3086. The team then prepared a design-build RFP, performed a structural evaluation and participated in the value engineering study with an independent design team. The design team continued support through the bidding phase with responses to RFIs and pre-proposal conference presentations. Cost: \$20M (Construction) Role: Land Surveyor	<input checked="" type="checkbox"/> Check if project performed with current firm
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(1) TITLE AND LOCATION (City and State) Indefinite Delivery A-E Contract for Multidiscipline Design and Related Services to Support BRAC and Military Construction Multiple Locations	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) 2015

e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Survey Manager. Supported the Land Development Engineer Program at Fort Bliss and WSMR, military construction projects within the Southwestern Division, as well as extensive Civil Works projects. Construction Cost: \$4.7B.	<input checked="" type="checkbox"/> Check if project performed with current firm
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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
DON DAIGLE, CVS, CPE	VALUE SPECIALIST	37	5

15. FIRM NAME AND LOCATION (City and State)

MSMM HUITT-ZOLLARS JV | Houston, Texas

16. EDUCATION (Degree and Specializing)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
AAS, Mechanical Engineering, 1984, Virginia Technical University	Certified Professional Specialist (CVS): #201203044
AAS, Electro-Mechanical Engineering, 1982, Virginia Technical University	Certified Professional Estimator (CPE) #1.4-0009821-1214

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Daigle has a wide range of experience in value engineering, cost estimating and cost management, life cycle cost analysis, scheduling, quality control techniques, and design construction cost reconciliation. He is a certified Value Specialist and is proficient in estimating using MCACES and PACES software. Mr. Daigle has an extensive portfolio of leading Value Engineering Studies for USACE and has been the lead-facilitator for multiple Districts, inclusive of military and civil works projects.

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
	Military Corrections Complex Fort Leavenworth, KS – USACE Kansas City District	2020	2022
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope: Value Engineering Workshop – New Utility Service on the site and replacement of the sanitary lines within the facility with replacement of all of the shower stalls within the jail. Cost: \$37M Value Savings Offered: \$8.2M Role: Mr. Daigle was one of the CVS Value Team Facilitators and in charge of the cost estimating duties. He was responsible for coordinating the cost estimating with the rest of the technical team, and for the overall management of the team during the SAVE six step process.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
b.	Renovations & Additions B5454 Barksdale AFB, Shreveport, LA	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2021	2023
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope: Value Engineering Workshop - Additions and Renovation of a historic building within Barksdale AFB. Three (3) story 21,000 SF renovation with a 8,500 SF addition to house new mechanical equipment, storage and workshop space. Cost: \$21.3M Value Savings Offered: \$1.1M Role: Mr. Daigle was the CVS Facilitator on the study and responsible for the proper facilitation of the SAVE six step job plan as well as oversight of the cost estimation and MII interpretation.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
c.	NAS Pax River P-972 Site Investigation NAVFAC Norfolk, VA	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2021	2022
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope: Design Charrette – Site investigation to determine site egress, utilities, building placement and logistics. Cost: \$1.7M Role: Mr. Daigle was the CVS facilitator. The charrette involved coordination of the stakeholders and the A&E to establish a site layout to best suit the user as well as be mindful of the surrounding activities and airstrip.		
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
d.	NAMMO Ammunition Storage Buildings Indianhead, MD	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2020	2022
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope: Value Engineering Workshop - Renovations of historic buildings at the Indian Naval Base. The buildings are currently used for naval warhead manufacturing and packaging for distribution to the troops. The project will restore and modernize the facilities with new HVAC and Electric upgrades as well a humidification control, ADA access and new restroom facilities. Cost: \$15.8M Value Savings Offered: \$1.4M Role: Mr. Daigle was the CVS facilitator for this workshop.		
e.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
e.	Special Operations Forces – Supply Support Ft. Bragg, NC	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2020	2022
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Scope: Value Engineering Workshop – New facility to combine and streamline the supply distribution to the Air Bourne Special Forces. Currently there are three separate locations where the soldiers must go to be issued their gear. This project will allow for all three entities to be housed in a single location. Cost: \$15.6M Value Savings Offered: \$4.5M Role: Mr. Daigle was the CVS facilitator for this workshop.		



PART I

SECTIONS F



**US Army Corps
of Engineers**

January 5, 2022

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>			20. EXAMPLE PROJECT KEY NUMBER 1
21. TITLE AND LOCATION (City and State) Renovation of 1st Cavalry Headquarters Contract No. W9126G-15-C-0251 Fort Hood, TX		22. YEAR COMPLETED PROFESSIONAL SERVICES 2018 CONSTRUCTION (If applicable) 2019	
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER USACE, Fort Worth District	b. POINT OF CONTACT NAME Patricia Murphy, PE	c. POINT OF CONTACT TELEPHONE NUMBER 817-886-1967	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)			
			
<p>Served as designer of record for the major renovation of an existing 135,800 gross SF, three-story Army Division Headquarters, including the existing courtyards. The project also included a roof-mounted antenna platform, parking area for tactical vehicles, loading and service areas, site/utilities. In general, the facility consists of three broad categories of space—administrative space, operational space, and building support space. In addition to the administrative and command operations spaces, the project included a new Operations Center (OC), Network Operations Center (NOC) and Sensitive Compartmented Information Facility (SCIF), including a Special Technical Operations (STO) Facility. The SCIF area was also served by an exterior Tactical SCI Vehicle Area (TSVA). Operationally critical areas of the facility were provided with redundant HVAC and the entire facility is served by a back-up generator in the event of a primary electrical failure.</p> <p>Provided 100% design construction documents in Revit and specifications in Specsintact for the civil, structural, mechanical, plumbing, electrical, and communication/IT/security (RCDD) systems. Design reviews were performed per the AEIM and recorded in Dr. Checks.</p> <p>The building is classified as a primary gathering facility and complies with UFC 4-010-01, DoD Minimum Antiterrorism Standards for Buildings and organized around three security zones based on the relative sensitivity of the operational activities performed in those zones:</p> <ul style="list-style-type: none"> Security Zone 1 includes Command Group, Protocol, PAO, G4, G8, G1, Legal, SHARP, IG, EO, Chaplain, Safety, Surgeon, Commandant, Honor Guard, Message Center/Distribution Room, Security Office, and PR. Although access into the entire building is controlled, this zone has the least operational sensitivity. Security Zone 2 includes Retention, G3 AVN, G3 SCHOOLS/FID/KMO, G3 FUOPS, G5 with ORSA and RED TEAM, PMO, Protection, DIV ENG, AMD, FIRES, G6, G7, G9 and CBRNE, Team Rooms, Command Briefing Room, Open Conference Rooms, Language and Computer-Based Training Room. Security Zone 3 includes G2 and Operations Center. Security Zone 3 is the highest level of operations sensitivity. <p>The 16-acre site designs included new water, sewer, fire protection, natural gas, electrical and communications concrete duct banks. The new water and sewer services were coordinated with the utility provider American Water and designs prepared to meet the Fort Hood specifications and details as well as UFC 3-201-01. The parking include 636 spaces and meet the 82 ft setback and included 2% dedicated to the handicapped per ABA. All new pavement design was per UFC 3-250-01FA and TxDOT specifications. The addition of the TSVA parking area included FE-6 fencing and other security requirements per guidance by the USACE Protective Design Center. New dumpster enclosures and screen walls for the utility yard were also designed to meet the Fort Hood standards and UFC 3-201-01. New windows were provided to meet AT/FP based on the setback with structural mullions and openings designed to withstand 2X the load of the glazing per ASTM 1300. This required some additional reinforcement on larger windows and curtain walls with high strength structural steel structural mullions. Exterior walls were thickened with additional studs also allowing for additional space for insulation. The new HVAC system included a four-pipe on-site generated chilled water (550 tons) and heating system supplying the central-station air-handling units with redundancy designed to the facility's critical zones. Distribution is via multi-zone VAV air handling units mixed with outside air through dedicated units with exhaust air recovery (DOAS). The system is controlled by a DDC that integrates with Fort Hood's UMCS and is designed with AT/FP shutdown per UFC 4-010-01. New HVAC system and envelope design complies with ASHRAE 189.1 and energy models show a consumption reduction greater than 20% over ASHRAE 90.1 baseline. All lighting and lighting controls were designed per UFC 3-530-01 and ASHRAE 90.1 and included LED fixtures and occupancy sensors. New plumbing and hot water designed to meet ASHRAE 189.1 and sub-metering to meet LEED credit requirements. The entire project is certified by USGBC as LEED Silver. Communication system design included new SIPRNET in classified exposed cable trays and NIPRNET per 13A and UFC 4-021-02NF and included external connections for the vehicles in the TSVA. Due to the sensitive nature of the facility, electronic security systems, access control, intrusion detection and CCTV system infrastructure were designed in accordance with UFC 4-021-02NF and the users' specifications, which were developed through multiple meetings and interviews. Redundant power for the entire building was designed with a 2,000 KW diesel backup generator with 72 hours of fuel storage.</p>			
Project Details			
Size: 135,800 SF Construction Value: \$52,139,000 Total Fee: \$1,028,231 Offeror's % of Work: 100%			
Relevant Factors			
<ul style="list-style-type: none"> ✓ USACE/SWF Task Order ✓ Fee Over \$1 M ✓ Located In TX ✓ Completed Since 2016 ✓ Full Design ✓ Major Renovation ✓ Value Engineering ✓ Commissioning 			
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a. (1) FIRM NAME Huitt-Zollars, Inc.	(2) FIRM LOCATION (City and State) Fort Worth, TX; Dallas, TX	(3) ROLE Designer of Record, Construction Administration	



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January 5, 2022

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <small>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</small>			20. EXAMPLE PROJECT KEY NUMBER 2
21. TITLE AND LOCATION (City and State) Building 373 Dynamometer Facility and Equipment Upgrades Contract No. W9126G-11-D-0005 Task Order No. 0028 Red River Army Depot, Texarkana, TX		22. YEAR COMPLETED PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable) 2018
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER USACE Fort Worth District	b. POINT OF CONTACT NAME Lynn Ray (now with SWD) Kip Browning (RRAD)	c. POINT OF CONTACT TELEPHONE NUMBER 469-487-7064 903-334-3232	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)			
			
<p>This \$22M project is to design the update and renovation of Building 373. The dynamometer facility (Bldg 373) at Red River Army Depot includes areas for rebuild and test and reassembly of the vehicles and equipment. The dynamometers are used to test the engines and transmissions rebuilt in the MSSC shop. Each new engine dynamometer will be served from a new centralized diesel fuel storage and delivery system as well as new centralized oil, ATF and coolant distribution and collection systems. The engine dynamometers will use electrically generated eddy current resistance. Heat rejection from the engines and the dynamometers will be by a new cooling water supply loop and cooling tower. Engine exhaust will be through appropriate new muffler systems in each cell.</p> <p>Our team provided project management, multi-discipline A-E Design developing Design-Bid-Build plans, SpecsIntact specifications, design analysis, energy modeling, and coordination of several specialty equipment subconsultants. The MII CWEs were prepared for the 65%, 95% and 100% design packages. The multi-discipline design team included:</p> <ul style="list-style-type: none"> • Architecture, • Civil Engineering • Structural Engineering & ATFP Compliance • Mechanical Engineering • Fueling Design • Electrical Engineering • Communications Design • Landscape Architecture • Interior Design/CID/SID <p>Our team facilitated splitting the project into three construction packages:</p> <ul style="list-style-type: none"> • Building renovation • Equipment and installation including process piping systems • Selective building demolition, reconstruction, and installation of a new cross-drive transmission dynamometer. <p>A feasibility study and cost estimate was prepared comparing the design options for cooling water requirements. The outcome of the study determined the project could accommodate the same cooling system for both new and relocated transmission dynamometers. We prepared design of the heat rejection cooling water loop.</p> <p>Sustainability and Energy Efficiency: The project followed the UFC 1-200-02 and the Army LEED implementation Guide. The mechanical engineers prepared a energy model and compared final design elements to ensure the HVAC system met ASHRAE 90.1 focusing specifically on the energy efficiency of the large motors and HVAC loads. Other elements to meet LEED and LCCA payback requirements per UFC 3-200-02 were revised such as facility layout, daylighting and lighting controls. Our team prepared the design plans for the new dynamometer equipment, including fluid management and cooling, overhead cranes, and all utilities.</p> <p>The design-bid-build construction package included consideration of all current UFCs, IBC, NFPA, IEEE and the Red River Army Depot Architectural Compatibility and Interior Design Standards. All submittals were coordinated with the government reviewers via Dr. Checks.</p>			
Project Details			
Size: 14,000SF Construction Value: \$22,000,000 Total Fee: \$1,161,820 Offeror's % of Work: 70%			
Relevant Factors			
<ul style="list-style-type: none"> ✓ USACE/SWF Task Order ✓ Fee Over \$1 M ✓ Located In TX ✓ Completed Since 2016 ✓ Major Renovation ✓ Design Bid Build ✓ Value Engineering ✓ Construction Phase Services ✓ Commissioning 			
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Huitt-Zollars, Inc.	(2) FIRM LOCATION (City and State) Fort Worth, TX	(3) ROLE Designer and Architect-Engineer of record for architectural, civil, structural, MEP, communications/data/security systems (RCDD) engineering, civil engineering, surveying



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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>			20. EXAMPLE PROJECT KEY NUMBER 3
21. TITLE AND LOCATION (City and State) BAK 12/14 Aircraft Arresting System (AAS) Biggs Army Airfield Contract No. W9126G-11-D-0008 Task Order No. TO0029 Fort Bliss, TX		22. YEAR COMPLETED PROFESSIONAL SERVICES 2014 CONSTRUCTION (If applicable) 2015	
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER USACE Little Rock District Air Force Civil Engineering Center	b. POINT OF CONTACT NAME Tammy Jones, USACE Project Manager Frank Melendrez, AFCEC Program Manager	c. POINT OF CONTACT TELEPHONE NUMBER (505) 340-1070 (210) 395-8542	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)			
 		Project Details Size: 2 Aircraft Arresting Systems Construction Value: \$9,100,000 Total Fee: \$568K Offeror's % of Work: 89%	
<p>This complex project is presented to demonstrate our team's recent experience developing plans, specifications and estimates for active Military airfield construction, runway construction phasing, asphalt and concrete pavement design, and airfield electrical design. The BAK 12/14 AAS is a cable arresting system for tail-hook equipped aircraft experiencing an emergency. The design for the project was completed in multiple phases due to funding. The first phase developed 15% design and cost estimate to ensure congressional funding. The second phase includes site survey and runway pavement profiles, complete design of the BAK-12 absorber foundation, Fairlead beams, and related components; design of the BAK-14 cable lifting system; and smoothness analysis and modeling of the existing runway pavement. The final phase included construction administration support. The project includes installation of two arrestor sites; one at each end of Runway 3-21 at Biggs Army Airfield (BAAF). The project includes \$6,500,000 of GFCI equipment installed by the contractor, which required significant coordination with the design, and \$2,684,000 of new construction.</p> <p>Site conditions require special consideration during development of the plans, specifications and estimates. Because of the on-going mission at BAAF and Ft. Bliss, the project was constructed while the runway was open, but under a displaced threshold condition. Criteria for the AAS required a very detailed analysis of the smoothness of the existing runway pavement 200 feet on each side of the new arrestor cable and 75 feet wide centered on the runway centerline. The runway at BAAF has a configuration that is non-standard for military airfields and for installation of an aircraft arrestor system. Other design elements used Air Force standard drawings and manufacturer's standard drawings to complete the site adaptation. The Design plans and specifications were developed to address each of these issues.</p> <p>The plans include a phased approach to construction that moves the threshold of the runway near the construction area for the AAS site. Using this approach, the runway can remain open while providing safe clearances for operating aircraft and construction crews and equipment. The phasing plan indicates relocation of only one end of the runway at a time, which allows use of the remaining runway pavement. For analysis of the smoothness of the runway pavement, detailed pavement elevation data was collected using a LIDAR survey scanner. The scan data was processed to perform a straightedge analysis of the smoothness of the pavement. In areas where the pavement did not meet the criteria, diamond grinding was specified to correct the surface. For other issues, the plans and specifications were tailored to provide direction to the contractor for non-standard installations and use of the government-furnished equipment.</p>			
 <p>"A Marine Corps F/A-18D Hornet from VMFA(AW)-225 stationed at MCAS Miramar recently declared an emergency while making a refueling stop at Biggs Army Airfield. A total hydraulic failure...forced the use of the tail hook landing. The F/A-18 successfully hooked the wire on the BAK 12/14 system at the north end of the runway resulting in a safe landing with no crew casualties or damage to the aircraft. It's great to know that the projects you build really do make a real-world difference and in this case, may have saved the lives of two pilots and a \$70M aircraft. A big thanks goes out to the Huitt-Zollars team for all their help with this project." Phil Barrick, USACE SWF Bliss Account Manager (Nov. 2017)</p>			
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Huitt-Zollars, Inc.	(2) FIRM LOCATION (City and State) Fort Worth, TX; Dallas, TX	(3) ROLE Full Service A-E & Construction Administration
b.	EudaCorp	Fort Worth, TX	Cost Estimating

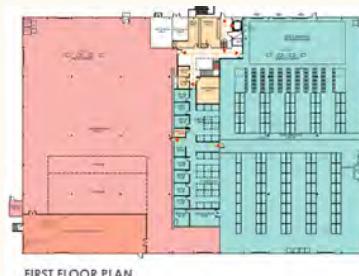


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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 4
21. TITLE AND LOCATION (City and State) Repair Medical Warehouse, Building 11156 Contract No. W91278-17-D-0024 Task Order No. WD0024-19F0425 Fort Bliss, El Paso, TX		22. YEAR COMPLETED PROFESSIONAL SERVICES 2020
		CONSTRUCTION (If applicable) 2021
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER J&J Worldwide Services	b. POINT OF CONTACT NAME Luis Jimenz, Project Manager	c. POINT OF CONTACT TELEPHONE NUMBER 512-691-3080

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)



The project was renovated Building 11156, WBAMC Medical Warehouse at Ft. Bliss. The warehouse is a 55,900 SF two-story large warehouse with a two-story administrative/support area in the middle of the warehouse that was originally constructed in 1999.

The first level administrative/support area, located between the two large open warehouse areas supporting equipment management branch and supply chain management branch, consists of approximately 8,200 SF and the second level support area consists of approximately 4,400 SF. The new administrative area renovated at level one (Warehouse Interior/Center) includes programs that support the Supply Chain Management Branch (SCMB). Open Cubicles to support Material Handlers, MedLog Specialists, Supply Technicians, and Item Managers were designed at level one including support offices and storage. The new administrative area renovated at level two (Interior/Center) was designed to include programs that include open cubicles that support the Equipment Management Branch (EMB) with supervisors and management offices. The remainder of level two remained open to structure.

The entire building is currently being renovated including the relocation and redesign of warehouse area to achieve efficiency. Planning has been carefully developed to address staff flow and operations.

The project scope provided for complete renovation to complete repair to Building 11156 which is occupied by the Equipment Management Branch (EMB), Supply Chain Management Branch (SCMB) and Shared Support Administrative Areas.

The existing roofing system was removed down to the metal deck. The new roof replacement was designed to be an 80-mil thick Thermoplastic Polyolefin (TPO) Roofing System. Additionally, existing openings associated with the two masonry flues for boiler stacks and 11 industrial metal roof vents on the Property Management side of the warehouse roof were removed, in-filled with code compliant substrate and a new roofing system installed.

Also provided ATPF design to replace existing windows and civil engineering services to have TPF placed north of building and to provide new asphalt paving at edge of docks along north side of building. All exterior glazing / windows were replaced as part of this renovation. Accordingly, glazing is in compliance with requirements identified in Standard 10, glazing for buildings that are required to meet the new UFC 4-010-01 DoD Minimum Antiterrorism Standards for Buildings.

The mechanical HVAC system was designed per UFC-4-510. All existing ductwork and associated components were demolished, new ductwork mains and branches were designed specified with R-6 insulation and fabricated per SMACNA standards. All ductwork was 24-gauge sheet metal duct with ductmate joints and ducts 24" and larger. Supply and return air ductwork elbows were designed to be long radius. 1st and 2nd floor offices (core of the building) were provided with a high efficiency true VAV packaged roof top unit with gas fired furnaces. Office zoning will be handled by single inlet VAV boxes with electric heaters. This will provide the Medical Warehouse end-users with the ability to heat and cool rooms independently. Medical, Property Management and Facility Management Warehouse will be provided with high efficiency single zone variable air volume roof top units with gas fired furnaces will be designed specified to be installed on 36" tall roof curb with MERV 13 final filters at roof curb supply discharge. Janitor Closets, Restrooms, and Break Rooms will be designed to be served by a new Energy Recovery Ventilator [ERV] with centralized duct system for the first-floor office area. The second-floor will also be provided with a similar ERV system.

Service equipment is located on the north side of the exterior of the building. The service consists of a 600A 480Y/277V main service panelboard. The main service panelboard had been recently replaced, so all components after the main electrical distribution panel were designed to be replaced.

Project Details

Size: 55,900 SF

Construction Value: \$7,454,650

Total Fee: \$519,588

Offeror's % of Work: 79%, Subs: 21%

Relevant Factors

- ✓ USACE/SWF Task Order
- ✓ Fee Over \$500 K
- ✓ Located In TX or LA
- ✓ Completed Since 2016
- ✓ Full Design
- ✓ Major Renovation
- ✓ Value Engineering

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Huitt-Zollars, Inc.	(2) FIRM LOCATION (City and State) Houston, Dallas & Fort Worth, TX	(3) ROLE Designer of Record, Construction Administration
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>			20. EXAMPLE PROJECT KEY NUMBER 5
21. TITLE AND LOCATION (City and State) Renovation of Historic Buildings B5676 and Hangar B6426 Contract No. N69450-08-D-1294 Task Order No. 0002 Barksdale AFB, LA		22. YEAR COMPLETED PROFESSIONAL SERVICES 2016 CONSTRUCTION (If applicable) 2016	
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER NAVFAC Southeast Division	b. POINT OF CONTACT NAME Jim Ritchie	c. POINT OF CONTACT TELEPHONE NUMBER 904-542-2797	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)			
 		Project Details Size: 50,000 SF Construction Value: \$7.7M Total Fee: \$587,100 Offeror's % of Work: 90%	
<p>The two buildings involved in this project were both built circa 1931, Building 5676 as a Fire Station and Guard House and Building 6426 as a two-bay Aircraft Hangar, with Hangar 3 to the south and Hangar 4 to the north separated by a two-story pylon in between. Both buildings had been renovated and re-purposed over the years and at the start of the project Building 5676 was vacant, Building 6426-Hangar 4 housed the current Fire Station #1 and Building 6426-Hangar 3 was vacant. The goal of this project was to restore the old fire station (Building 5676) for occupancy by the Fire Chief and his administrative staff and renovate and upgrade in place the Hangar 4 Fire Station to meet current standards. Building 6426-Hangar 3 was to be gutted by selective demolition to allow for future renovation.</p> <p>Our team served as designer of record for all architectural and engineering design. Scope included site/civil engineering for both buildings, extension of new sanitary sewer service to the buildings, providing new domestic and fire water services, and miscellaneous paving repairs and drive extensions.</p> <p>Building 5676: After selective demolition and asbestos abatement, new AT/FP compliant windows were installed in all openings, and the existing masonry perimeter walls were framed with continuous spray-foam insulation to form an air barrier and meet minimum code required R-values. Revised floor plan layouts were developed to meet the program and user needs. The buildings received new electrical transformers with primary and secondary service, new lighting, new telecommunication system backbone and distribution, new HVAC systems throughout, new plumbing fixtures and piping, new fire alarm and mass notification system, and a new fire suppression system.</p> <p>Building 6426—Hangar 4: The two-story Fire Station #1 functions were renovated in place with the building occupied and operational throughout. The building contractor made on-site temporary arrangements for kitchen and restroom facilities. The existing kitchen and day room were relocated from the ground floor to the second floor to make room for two additional apparatus bays increasing capacity from 4 to 6 vehicles. While the existing sleeping quarters were untouched, the restrooms, weight room, aerobics room, classroom and associated office spaces were completely reworked with new finishes, doors, lighting, power, data-comm, HVAC, fire alarm and mass notification, and fire suppression throughout the building. A new FAVERS (Fire Apparatus Vehicle Exhaust Removal System) was designed and installed for all bays and a new integrated Fire Fighter Alert System was also provided.</p> <p>Building 6426—Hangar 3: The two-story space was gutted with selective demolition and asbestos abatement. All walls, ceiling, lighting, power, plumbing and HVAC were removed to leave a clean slate for future reuse as a Squad Operations center for the 11th Bomber Squadron. (Note: The adaptive reuse design for the new Squad Ops facility in this building was also designed by our team, but under a separate contract.)</p> <p>Historic Preservation Issues: Both of the affected buildings in this project are located in what is known as the Barksdale Field Historic District, which was recognized as a national historic district by the U.S. Department of the Interior National Park Service and listed on the National Register of Historic Places in 1992. All designs were developed in coordination with the Base Cultural Resources Officer and reviewed and approved by the SHPO under the Section 106 process. Building 5676, originally constructed as a Fire Station/Guardhouse (brigade), was designated a "contributing structure" of the Historic District at that time. Extensive exterior renovations were required due to updating windows and doors to meet AT/FP blast resistant design requirements. Mitigation efforts including all new exterior elements, including louvers, were ultimately deemed by the SHPO to be "period correct" in visual conformance to the original wood doors, with color matching the existing color scheme of the buildings.</p>			
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Huitt-Zollars, Inc.	(2) FIRM LOCATION (City and State) Fort Worth, TX; Dallas, TX	(3) ROLE Designer of record for architectural, interior design, civil, structural, mechanical, plumbing, electrical, fire protection, communications/data/security systems (RCDD) engineering, cost estimating



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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT			20. EXAMPLE PROJECT KEY NUMBER
(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)			6
21. TITLE AND LOCATION (City and State) CCAD Hangar 8 DB RFP Contract No. W9126G-15-D0017 Task Order No. 0003 Corpus Christi Army Depot, TX		22. YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2017	N/A
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER	
USACE, Fort Worth District	Norma Edwards	817-886-1602	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)			
			
<p>Corpus Christi Army Depot is the largest helicopter repair facility in the world, with over 2.2 million square feet of industrial space. The main location where these functions are performed is known as Building 8, which is a 1.2 million SF facility of shops, parts storage, and administrative facilities. Hangar 8 is a part of Building 8 and comprises a 74,000 SF portion of that facility. Under this task order, an RFP was developed for the design/build of a complete renovation. Extensive renovation was required to meet local, state, and national building codes, and to include support facility requirements for an aviation depot level of repair and overhaul of rotary wing aircraft. In addition, the objective was to isolate utility services, particularly electrical service from the area south of Hangar 8, which is planned for future demolition. Other aspects of the work included roof replacement, façade repair/replacement, hazardous material abatement and repainting of the structure and walls. A final goal of the project was to repair existing columns and truss members.</p> <p>The team conducted an existing conditions survey to assess existing building systems, identify any existing code violations, and update or supplement record drawings of the facility; prepared an environmental report (asbestos/lead/HTRW); performed a charrette to gather the user's specific requirements, validate the 1391 and prepare an ENG Form 3086; participated in a VE study by an independent team; provided cost estimates (MII); and continued support through the bidding phase with responses to RFI's and pre-proposal presentations.</p> <p>The physical scope of work for the project included roof replacement; repair and strengthening of existing columns and truss members; isolation of utility services; abatement of all lead-based paint; renovation of high bay maintenance area and repair of the exterior bay aluminum siding, eills, and metal flashing; replacement of roof access ladders; slip-resistant coating; repair and upgrade of the electrical distribution, communication, compressed air distribution, fire alarm and mass notification, fire suppression and fire pump, and heating control systems. Some other unique design features included:</p> <ul style="list-style-type: none"> • Facility layout coordinated with existing automated guided vehicles (AGV's), with guide buttons embedded in perimeter floor areas; floor guidance magnet locations in shop floor areas were covered with new epoxy coating, necessitating the installation of new tabs exposing magnet locations • Flexibility of shop floor and equipment layout and services that require reconfiguration of production equipment • Construction sequencing plan was required because certain areas of the existing facility were to remain operational • Security provisions between renovated areas and non-renovated areas included electronic card readers and new electronic door hardware • The façade's historically significant appearance had to be maintained with copper wall panels, a curved copper roof, and stucco door pockets • Hangar 8 was analyzed for full wind exposure and potentially overstressed members of the existing structure identified for strengthening • All new Hangar 8 HVAC equipment was integrated with the existing Building Automation System (BAS) • Entirely new 480/277V electrical service was provided from a new pad-mounted transformer and an emergency generator was provided for the fire pump, emergency power panel, and high-bay emergency lighting • Sustainable features included the use of zero ozone depletion refrigerants, high efficiency motors, construction waste management, recycled content, regional materials, carbon dioxide monitoring, low VOC coatings, and use of low-emitting materials <p>"HZ was thoroughly engaged in RFP preparation. They conducted multiple site visits for all major disciplines to identify all requirements for proposed contractors. HZ team documented all renovations scope by photos and identified locations on drawings which assisted our customer and government team in detailing the extent of the work. Team attended the pre-proposal conference and prepared a presentation for the contractors so that they could understand the construction scope. HZ cost estimator consultant notified the government early on that the PA was too low and explained that PA should be increased to accommodate for all the scope included in the project. AS a result, CCAD modified the 1391 and bids received were in line with new cost estimate."</p> <p>Norma Edwards, USACE SWF Program Manager (05/2018)</p>			
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Huitt-Zollars, Inc. EudaCorp	(2) FIRM LOCATION (City and State) Fort Worth, TX; Dallas, TX Fort Worth, TX	(3) ROLE Prime, design of all disciplines Cost Estimating



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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT			20. EXAMPLE PROJECT KEY NUMBER
(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)			7
21. TITLE AND LOCATION (City and State) Repair Warehouse for LRS/CE Consolidation (B4845) Contract No. N69450-08-D-1294, Delivery Order 0003 Barksdale AFB, LA		22. YEAR COMPLETED PROFESSIONAL SERVICES 2016 CONSTRUCTION (If applicable) 2016	
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER NAVFAC Southeast Division	b. POINT OF CONTACT NAME Jim Ritchie	c. POINT OF CONTACT TELEPHONE NUMBER (904) 542-2797	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)			
 		<p>The \$10M renovation and alteration of a 228,600 sq. ft. Warehouse Building was fully occupied by LRS personnel and stored materials. The renovation project was required to merge CE functions in with the LRS functions. The building was required to remain open and partially occupied during construction. The new building functions included:</p> <ul style="list-style-type: none"> • LRS Admin • LRS Staging Storage • LRS Staging Offices • LRS Transportation • HAZMAT • New Arms Room • CE Admin • Carpentry, Metals & Locks Shop • Alarms Shop • HVAC Shop • EMCS Shop • Electric Shop • Power Production Shop • Utilities Shop • Contractor Operation Civil Engineering Supply Store <p>This new mission required the entire building renovation including, removing and reconstructing walls and security layers. Also included are the demolition and removal of utility, plumbing and mechanical system elements that no longer were functional/non-code compliant and those functional system elements needed to be replaced with the new building configuration.</p> <p>Our team provided multi-discipline A-E Design developing full plans, SpecsIntact specifications and design analysis. We continued by providing construction phase support through multiple site visits, shop-drawing review and periodic site visits. The multi-discipline design team included:</p> <ul style="list-style-type: none"> • Architecture • Civil Engineering • Structural Engineering • Mechanical Engineering • Electrical Engineering • Communications Design • Landscape Architecture • Interior Design <p>We also prepared the commissioning plan and coordinated with the commission agent during commission of the mechanical and electrical systems. We worked with the construction contractor to develop a construction sequencing that minimized disruption to LRS occupants. Demolition of the CE Yard buildings, parking lot entrance, Building 4846 and portions of Building 4845 were also required. The existing CE yard shop was relocated to the renovated warehouse. The \$10 million building renovation design included aesthetically pleasing, sustainable, functional, durable finishes appropriate to the building's function. Acoustic properties of materials, as well as durability and ease of maintenance, were important factors considered during material selection. Our team designed the renovation to include new spaces for the following LRS and CE functions including all required utility modifications to support the MEP requirements for each space. The design team discovered ABA challenges during the site investigation as the structural integrity of the floors, columns and beams and their locations to the planned new plumbing systems were in conflict. The REVIT model was updated based on the actual field conditions and conflicts were avoided during construction.</p>	
<div style="background-color: black; color: white; padding: 5px; text-align: center;">Project Details</div> <p>Size: 228,600 SF Construction Value: \$10,535,788 Total Fee: \$575,000 Offeror's % of Work: 96.4%</p> <div style="background-color: black; color: white; padding: 5px; text-align: center;">Relevant Factors</div> <ul style="list-style-type: none"> ✓ Fee Over \$500 K ✓ Located In LA ✓ Completed Since 2016 ✓ Full Design ✓ Major Renovation ✓ Construction Phase Services ✓ Commissioning <p><i>"HZ conducted a thorough site investigation and completed a technically challenging design on schedule. All HZ team members conducted themselves in a professional manner. I would recommend the use of HZ on future projects."</i></p> <p>-Jim Ritchie, NAVFAC SE Project Manager (Quote from PPQ, 6/2015)</p>			
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a. (1) FIRM NAME Huitt-Zollars, Inc.	(2) FIRM LOCATION (City and State) Houston, Dallas & Fort Worth, TX	(3) ROLE Multi-Discipline Design, Construction Management	



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MATOC For A-E Design Services for Military Programs for the Fort Worth District and Southwestern Division AOR
W9126G-20-R-0041 - SMALL BUSINESS Headquarters 1st Cavalry Division

January 5, 2022

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <small>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</small>		20. EXAMPLE PROJECT KEY NUMBER 8
21. TITLE AND LOCATION (City and State) Fort Bliss Hospital CPS Contract No. W9126G-11-D-0016 Task Order No. 0017 Fort Bliss, El Paso, TX		22. YEAR COMPLETED PROFESSIONAL SERVICES 2019 CONSTRUCTION (If applicable) 2019
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER USACE Fort Worth District	b. POINT OF CONTACT NAME Peter Matar	c. POINT OF CONTACT TELEPHONE NUMBER 817.312.6483

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)



As the lead firm in this joint venture task order, we provided 100% of the construction phase services required for the project. In addition, we also provided design of the site and infrastructure project under a separate task order. This task order includes the construction oversight, quality assurance, management of project documentation, review and response development of construction submittals and RFI's, development of daily reports, performance of schedule analysis, oversight of construction contractor performance, and construction phase engineering services.

The Fort Bliss Hospital Program Office delivered a replacement hospital of 1.13M square-foot world-class state-of-the-art medical campus. The \$966M+ program includes a 7-story hospital tower with 135 beds, 387K SF of clinic towers plus a Clinical Investigation Building (CIB), a central utility plant, a 144K SF administration building, 250 acres of new infrastructure, a helipad, two access control points, and a bridge connecting to the state highway system.

The 250-acre initial infrastructure package construction (\$85M) was turned over in late 2017. Our team provided the design for the site development features of this project included new perimeter security, 460K cubic-feet of cut and fill for mass grading, new off ramps, 11 miles of access roads, a new sanitary sewer lift station and 5.5 miles of off-site sewer, 5 miles of new water service, 6 miles of underground electric and communications duct banks, storm water retention and underground piping. Additional site infrastructure package include a helicopter pad (\$1.1M), a 2,300 space surface parking lot (\$6.5M), a 530 space employee parking (\$1.5M), two access control points (\$13.5M each), and a landscape and hardscape project (\$25M).

Our team provided Title II services/construction phase support for the Fort Bliss Hospital Program Office under a single task order that includes a one-year base period of performance with four option years. The services include a broad range of engineering and construction activities including technical assistance to the Hospital Office, construction administration support, quality assurance inspection and daily reporting in the Resident Management System, review of contract documents and shop drawings, review of the construction contractors schedules and quality control plans, and investigation and reporting of the construction contractors claims. At the peak of construction, we provided 27 full-time, onsite field and office personnel integrated with the USACE to deliver construction quality assurance for the entire program including the infrastructure and CUP.

The team provides three field engineers (two civil engineers and one mechanical engineer) and one quality assurance representative to the CUP/CIB/Site resident office. The individuals are specifically focused on construction quality assurance and reporting in RMS for daily inspections and contractor review for all site and infrastructure construction packages. They provided shop drawing review of the infrastructure submittals and CUP equipment including a 2.0 MGD sanitary sewer lift station and off-site sewer. The personnel have also provided oversight of pavement placement, which commonly occurs in the evening during summer months due to the hot daytime temperatures. The engineers review construction submittals related to concrete mix and testing methods.

Other full-time onsite personnel include Interdisciplinary Project Engineers, Office Engineers, Licensed Civil Engineers, Registered Architects, Licensed Mechanical Engineers, Certified Commissioning Specialist (CxAs), Licensed Electrical Engineers, Quality Assurance Personnel, Cost Estimators, Fire Protection Engineers, and Construction Schedulers. The onsite staff includes a single point of contact staff who reports directly to the USACE Construction Manager on staffing issues, field personnel changes, and administrative activities and personnel issues. This has allowed our team to quickly make changes to adapt to new program needs and rapidly staff all assigned positions.

Project Details	
Size: 1.13M SF, 27 Full Time Personnel	
Construction Value: \$966M	
Total Fee: \$17,920,738	
Offeror's % of Work: 99.7%	
Our Team	JV Partner
\$17,864,794	\$55,944
Relevant Factors	
<ul style="list-style-type: none"> ✓ USACE/SWF Task Order ✓ Fee Over \$1 M ✓ Located In TX ✓ Completed Since 2016 ✓ New Construction ✓ Design/Bid/Build ✓ Value Engineering ✓ Construction Phase Services ✓ Commissioning 	

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a. (1) FIRM NAME Huitt-Zollars, Inc.	(2) FIRM LOCATION (City and State) Dallas, El Paso, Fort Worth, Texas	(3) ROLE A-E Services
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <small>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</small>		20. EXAMPLE PROJECT KEY NUMBER 9
21. TITLE AND LOCATION (City and State) Repair/Renovate Dormitories 10070 and 10075 Contract No. W91278-17-D-0024 Task Order No. WD0024-19F0425 Lackland AFB, TX		22. YEAR COMPLETED PROFESSIONAL SERVICES 2013 CONSTRUCTION (If applicable) 2014

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER USACE, Fort Worth District	b. POINT OF CONTACT NAME Norma Edwards	c. POINT OF CONTACT TELEPHONE NUMBER 817-886-1602
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)



This project consists of the repair and renovation of Dormitories 10070 and 10075 at Lackland AFB in San Antonio, TX. The dormitories were constructed in 1993 and subsequently operated with only sustainment level repairs and maintenance for almost thirty years. Due to the age and general condition of the dormitories, it became necessary to implement building repairs and renovate several safety systems in order for the buildings to become code compliant and to remove all mold-infested materials. Each dormitory houses 168 Navy MA School students. Each three-story dormitory contains approximately 36,000 SF. Construction is non-combustible, with interior dorm rooms and limited interior mechanical/electrical/storage rooms, connected by exterior egress balconies. The upper floors are served by three stairs (north, center, and south).

We provided 100% design construction documents in Revit and specifications in Specsintact for the architectural, civil, structural, mechanical, plumbing, electrical, and communication/IT/security (RCDD) systems. Design reviews were performed per the AEIM and recorded in Dr. Checks. In addition to design services our team provided submittal and shop drawing review and development of as-built drawings. Our team also coordinated with the commissioning agent on the mechanical systems.

Site work included re-grading the full perimeter of both buildings, repair of walkways, new fire main piping, and protection of existing landscape during construction.

Damaged masonry on the exterior walls was repaired and re-pointed. Other exterior features, such as sealants and backer rods at breezeways, plaster ceilings, lighting fixtures, carpeting and adhesives, stair treads, metal panels, and doors and frames, were evaluated and repaired or replaced as needed. As to interior living areas, the general scope of work included the demolition and reconstruction of guestroom ceilings and other spaces such as bathrooms and vanity areas, where new gyp board walls and interior metal framing studs were provided, along with replacement of doors and frames; all VCT flooring was replaced; and existing interior light fixtures, lockers, and ceiling fans were replaced. Existing roofing materials were removed and replaced with standing seam metal systems.

Our team provided a licensed professional engineer to evaluate all existing structural trusses in order to verify their capacity to support all MEP equipment and fire sprinkler systems. The structural engineer also performed an assessment of the existing building slab foundations in order to determine the need for any corrective actions.

Primary heating and cooling for the dormitories is provided by an existing two-pipe manual-changeover hydronic system. The two-pipe system is distributed from an existing Chiller Energy Plant (CEP) and routed underground to each building. Air conditioning for each living unit is typically provided by an existing fan coil unit located in the unit's ceiling plenum and served by the two-pipe hydronic system. Supply air is distributed via ductwork from the fan coil unit to a wall-mounted supply air diffuser, and returned to the unit through a ceiling-mounted grille located at the underside of the fan coil unit. Mechanical system scope for this project included the removal and installation of new HVAC fan coil units; controls and above-ground chilled water CHW piping; addition of new dedicated outside air ventilation air handling units and exhaust fans; and removal and installation of new controls.

Plumbing system scope of work included the removal and installation of new plumbing fixtures and above-ground plumbing pipes; removal and installation of new domestic hot water heaters, DHW piping, controls and storage tanks. In addition to the renovations, several Life Safety systems were installed including a fire alarm (FA) system, a mass notification system (MNS), and an NFP 13 FP sprinkler system.

Each building's electrical service is provided from an existing 150KVA 208/120 volt pad mounted transformer; the transformers were left in place for re-use with the renovated buildings but were provided with aesthetic screening and new metering. Electrical scope of work included replacement of electrical panels and circuits downstream of the incoming service transformer. Most existing devices and fixtures were replaced; however, some lighting and HVAC remained and required continuity of services. All new mechanical/plumbing equipment was provided with power.

Project Details

Size: 72,000 SF

Construction Value: \$11,931,800

Total Fee: \$732,900

Offeror's % of Work: 100%

Relevant Factors

- ✓ USACE/SWF Task Order
- ✓ Fee Over \$500 K
- ✓ Located In TX
- ✓ Full Design
- ✓ Major Renovation
- ✓ Value Engineering
- ✓ Construction Phase Services

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Huitt-Zollars, Inc.	(2) FIRM LOCATION (City and State) Houston, TX; Fort Worth, TX	(3) ROLE Designer of Record, Construction Administration
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>			20. EXAMPLE PROJECT KEY NUMBER 10
21. TITLE AND LOCATION (City and State) JLENS BAT I Phase II UEPH, Tac Training Sites, TAFSS Facility Contract No. W912BV-09-D-2008 Task Order No. DY07 Fort Bliss, El Paso, TX		22. YEAR COMPLETED PROFESSIONAL SERVICES 2012 CONSTRUCTION (If applicable) 2014	
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER USACE Fort Worth District	b. POINT OF CONTACT NAME Norma Edwards	c. POINT OF CONTACT TELEPHONE NUMBER (817) 886-1602	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)			
			
<p>As part of the follow on activities for the Fort Bliss Expansion program, this HZ-only task order was completed for the Fort Worth District to provide engineering and architecture services for three JLENS (Joint Land Attack Cruise Missile Defense Elevated Netted Sensor) MILCON projects:</p> <ul style="list-style-type: none"> • A design build RFP for a new Phase 2 UEPH on Main Cantonment Area of Fort Bliss • A design build RFP for a Training Aids Device Simulators/Simulations (TADDS) Facility located on the Main Cantonment Area of Fort Bliss; and • The design bid build plans and specifications for the JLENS Tactical Training Sites located in the Fort Bliss USACAS Range Complex off of NM 506 <p>Phase 2, UEPH</p> <p>The project consisted of the redevelopment of an abandoned building site for the construction of a new 70-person, 26K SF UEPH. Our team provided the development of performance criteria for all aspects of vertical construction, including an architectural theme and all structural, mechanical, and electrical requirements. Work also included project management and full design of site demolition of asphalt pavement, gravel areas, chain-link fencing and some site structures; running building utility services (water, fire, sanitary sewer, storm drain, gas, electric and communications); installation of a small POV parking lot expansion (11 spaces), landscape and irrigation and courtyard improvements. Of note, the full site design was packaged with the DB RFP working with the UEPH COS for the building. Design challenges on this project included the several existing facilities adjacent to the site that must remain open and accessible at all times during the project duration, as well as coordinating with and incorporating design comments of three different Privately Owned Utility Providers. This was the only project of the three on this task order to proceed to construction.</p> <p>TADDS Facility</p> <p>This facility is used in conjunction with an adjacent outdoor training pad for the JLENS Batteries, located on the Main Cantonment. Our team provided the full architectural, structural, MEP and communications requirements and bridging documents for the DB RFP. We also prepared the full design for the site and infrastructure, utilities and paving serving this facility, up to 20 feet of the building pad. Of note, the final signed and sealed site design was included in the DB RFP for the building. Our team coordinated the requirements of the facility between the site and RFP. Design oversight included the utility services, building placement, and grading and paving, which had to be defined but remain flexible to complement the building design which was to be finalized separately.</p> <p>JLENS Tactical Training Sites</p> <p>We full design bid build plans and specifications, project planning, programming, 1391 development and the project definition report. To meet the JLENS mission, two tac sites were design approximately two miles apart. Each sites includes a 3000 SF support and training building, roads, training pads, electrical and communications systems. The site requirement is a 1000-foot diameter clear Radar Platoon sites that has a 600-foot diameter pad, 300-ft concrete pad in the middle. The heaviest piece of equipment was 180K lbs. which required improvement to NM506 for 6 miles. The training site had tight tolerances for level grades to support the deployment of the aerostat and other supporting equipment. The site design included early coordination with the state of NM DOT, coordination with the NM environmental protection agency for applications to drill water wells, review of real estate documents for impacts to BLM range land, and coordination with Union Pacific Railroad for improvements crossing their right of way.</p> <p>Other design improvements included 10 miles of 15KV overhead electrical lines and 2 miles of communications duct banks. Mass grading and fine grading of the sites were very complex due to the 5 to 10 percent fall across the site. Fencing, storm drainage, water wells, septic systems and other utility support infrastructure was designed. A BIM model was produced for the two small administration facilities. Our team was responsible for all surveying, architectural and engineering design, project management and development of specifications and 1354s.</p>			
Project Details			
Size: Three MILCON projects Construction Value: \$45,590,000 Total Fee: \$2,657,849 Offeror's % of Work: 90.1%; 9.9% Subs			
Relevant Factors			
<ul style="list-style-type: none"> ✓ USACE/SWF Task Order ✓ Fee Over \$1 M ✓ Located In TX and NM ✓ Design Build RFP ✓ Design Bid Build ✓ New Construction - MILCON ✓ Value Engineering 			
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a. b.	(1) FIRM NAME Huitt-Zollars, Inc. EudaCorp	(2) FIRM LOCATION (City and State) Dallas, El Paso & Fort Worth, TX Fort Worth	(3) ROLE Project Management, Surveying; Full Services A-E Design Cost Estimating



PART I
SECTION G



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G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

26. NAMES OF KEY PERSONNEL <i>(From Section E, Block 12)</i>	27. ROLE IN THIS CONTRACT <i>(From Section E, Block 13)</i>	28. EXAMPLE PROJECTS LISTED IN SECTION F <i>(Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)</i>									
		1	2	3	4	5	6	7	8	9	10
Larry Rogers, PE (MHZ JV)	Program Manager	X	X	X	X	X	X	X	X	X	X
James (Jim) Fullmer, PE, LEED AP (MHZ JV)	Project Manager	X				X	X	X		X	X
Gene Valentine, AIA, FCSI, GGP (MHZ JV)	Project Manager				X						
Michael DeLeon, PE (MHZ JV)	Civil Engineer	X		X	X		X		X		X
Kevin Carlson, PE (MHZ JV)	Civil Engineer		X					X		X	
Jim Wilson, PE (MHZ JV)	Civil Engineer										
Chris Scott, RLA, CNU-A (MHZ JV)	Landscape Architect	X			X					X	X
Jeffrey Holba, RLA, ASLA (MHZ JV)	Landscape Architect	X							X		X
William Wallace, PE, SECB, MLSE (MHZ JV)	Structural Engineer	X	X	X	X	X	X	X	X	X	X
Brion Echols, PE (MHZ JV)	Structural Engineer	X			X	X	X	X			
John Coffery, PE, SE (MBI)	Structural Engineer										
William Hoelscher, RA, LEED AP (MHZ JV)	Architect		X	X		X	X				X
Randall Hickey, RA, RID, NCARB (MHZ JV)	Architect				X	X	X	X			
Joe Wells, RA, RID (MHZ JV)	Architect				X				X		X
Scott Parma, PE, LEED AP (MHZ JV)	Electrical Engineer	X	X	X	X	X	X	X	X	X	X
Leonard Carthon, PE, RA, LEED AP (MHZ JV)	Electrical Engineer			X	X		X	X			X
Jeff Roberts, PE, RCDD, LEED AP (MHZ JV)	Electrical Engineer	X			X						
Jeffrey Wilson, PE, LEED AP (MHZ JV)	Mechanical Engineer	X	X		X		X	X			X
Jaime Espinosa, PE, LEED AP (MHZ JV)	Mechanical Engineer	X	X			X					
Sergey Aleksanyan, PE, LEED AP (MHZ JV)	Mechanical Engineer				X		X	X			X
Kevin Spangler, PE (MBI)	Fire Protection Engineer										
Nathan Vander Roest, PE (Alliance WSP JV)	Fire Protection Engineer										
Elizabeth Krousel, PE (MBI)	Environmental Engineer										
Gregory Garced, PE (MBI)	Geotechnical Engineer										
Robert Armstrong, PE, CFM (MHZ JV)	Hydraulic Engineer			X					X		X
Maria Gatela, CCP (EudaCorp)	Cost Estimator		X	X			X				X
Stephen Cobb, RPLS (MHZ JV)	Land Surveyor			X	X		X		X		X
Don Daigle, CVS, CPE (MHZ JV)	Value Specialist										

29. EXAMPLE PROJECTS KEY

NO.	TITLE OF EXAMPLE PROJECT <i>(From Section F)</i>	NO.	TITLE OF EXAMPLE PROJECT <i>(From Section F)</i>
1	Renovation of 1st Cavalry Headquarters Fort Hood, TX	6	CCAD Hangar 8 DB RFP Corpus Christi Army Depot, TX
2	Building 373 Dynamometer Facility and Equipment Upgrades Red River Army Depot, Texarkana, TX	7	Repair Warehouse for LRS/CE Consolidation - B4845 Barksdale AFB, LA
3	BAK 12/14 Aircraft Arresting System (AAS) Biggs Army Airfield Fort Bliss, El Paso, TX	8	Fort Bliss Hospital CPS Fort Bliss, El Paso, TX
4	Repair Medical Warehouse, Building 11156 Fort Bliss, El Paso, TX	9	Repair/Renovate Dormitories 10070 and 10075 Lackland AFB, TX
5	Renovation of Historic Buildings B5676 and Hangar B6426 Barksdale AFB, LA	10	Fort Bliss JLENS BAT I Phase II UEPH, Tac Training Site, TAFSS Facility Fort Bliss, El Paso, TX



PART I
SECTIONS H-I



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H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

INTRODUCTION

The prime A-E for this assignment will be MSMM Huitt-Zollars, A Joint Venture (MHZ). We are certified by the Small Business Administration as an approved Mentor-Protégé small business enterprise. The two partner firms comprising our Joint Venture are MSMM Engineering, LLC, headquartered in New Orleans, LA (and with Texas offices), and Huitt-Zollars, Inc., headquartered in Dallas, TX (and with many offices throughout the Southwest Division AOR). Both of the partner firms are full-service design and management firms specializing in military construction and civil works projects for USACE. Our combined resources offer the Fort Worth District a full-service small business team with a deep portfolio in Federal IDIQ contracts for military construction generally, and completed Corps of Engineers task orders in Texas and Louisiana specifically.

Both firms have extensive USACE design, construction phase and program management experience in their own right, and as a team we are currently engaged with several USACE district offices in your AOR, including Galveston, Tulsa, New Orleans, and Albuquerque, in addition to our ongoing work with Fort Worth District. Our JV's multiple offices focus the bulk of our professional resources in the states of Texas and Louisiana, where both firms maintain a significant presence. Our JV was formed with the specific intention of better serving USACE, which is the largest client of each JV partner, and we are each experienced with the IDC/IDIQ contracting methodology used by the Corps. Over the last 10 years alone our JV team members have held a total of 16 such contracts as prime A-E, including several with Fort Worth District, totaling over \$550 million in capacity. These assignments have included several IDIQ's that we now hold as a JV team, including selections by Tulsa District, Albuquerque District, and AFCEC. There has not been a single moment during that time in which we have not been executing multiple, simultaneous task orders for USACE.

Accordingly, we believe that—together—we are able to offer you a combination of advantages that no other team is able to equal. So let's review what we believe this Section H will demonstrate when you read it:

- ✓ Unparalleled track record with USACE/SWF over the last 15 years in both military construction and civil works assignments;
- ✓ Experience with a diverse portfolio of project types that represents every type of task order you could conceivably award to our team;
- ✓ Consummate success with major recent USACE programs, for both SWF and other district offices;
- ✓ Concentration of resources primarily in the states of Texas and Louisiana, where both firms are headquartered; and
- ✓ A Program Manager drawn from USACE ranks, Larry Rogers — We are offering our most experienced manager of USACE work in Larry Rogers, who spent 32 years with SWF and is now located across the street in Fort Worth. A Program Manager trained for this assignment by you.

In short, if you hire us for this assignment you will get a team with a long-term, proven commitment to your mission, an unparalleled recent track record of accomplishment on a wide variety of major relevant assignments, and a team led by our most experienced managers and technical staff. As always, our team is dedicated to your success.

In addition, the prime A-E team will be complemented by specialists in several technical areas that together will meet all of your Small Business participation goals for the contract. Please refer to (f) Utilization of Small Business Firms below for an estimate of the participation of each of these firms against the goals for each category of Small Business anticipated under this contract.

ALLIANCE WSP The ALLIANCE WSP Joint Venture, Alexandria, VA, is an SBA approved Mentor-Protégé practice with SDVOSB status and will provide Fire Protection services, civil engineering support, planning and bench strength with a significant military design portfolio.



ARS Engineers, Inc., Dallas, TX, is a Small Disadvantaged Business enterprise and will provide Surveying and Civil Engineering support.



ETTL Engineers and consultants, Inc., Tyler, TX, is a WOSB and HUB Certified firm specializing in geotechnical and environmental engineering, soils testing, and construction materials testing.



Eudacorp Inc., Fort Worth, TX, is a Small Disadvantaged Business enterprise and will provide Cost Estimating and Value Engineering services



JESCO Environmental and Geotechnical Services, Inc., a Jenner, LA consulting firm and a SB, SDB, WOSB and 8(a) enterprise, will support our Environmental Engineering team primarily in the area of HTRW investigations and remediation, as required.



The Rios Group, Fort Worth, TX, is a WOSB firm specializing in subsurface utility engineering services.



Singhofen and Associates, Inc., Orlando, FL, is a HubZone firm and will provide Environmental and Civil Engineering support



Terrane Engineering Corporation, Chandler, AZ, is a HubZone and WOSB firm specializing in Geotechnical Engineering services



Vernadero Group, New Orleans, LA, is a VOSB firm specializing in Environmental services, including regulatory compliance, specifically for NEPA, environmental site assessments, wetland permitting and mitigation planning, and hazardous waste management services.



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January 5, 2022

Finally, we will be joined on this assignment, with Michael Baker International, a national firm with offices in Dallas, TX, Houston, TX, and Baton Rouge, LA. MBI is our only large firm sub-consultant and will be responsible for Fire Protection, Environmental Engineering, and multi-discipline support as needed. The JV team is currently working with MBI on seven current IDIQ's, for California National Guard; USACE District Offices in Fort Worth, Albuquerque and Tulsa (multiple contracts); AFCEC; and the Texas Facilities Commission Border Wall program.

(A) SPECIALIZED EXPERIENCE AND TECHNICAL COMPETENCE

The ten projects featured in Section F of this document summarize some of our best, most relevant recent work. Presented below is a matrix that summarizes the specific areas of experience that each project has in relation to this contract:

PROJECT NAME	USACE T.O.	TX/LA LOCATION ⁽¹⁾	COMP. SINCE 2016 ⁽²⁾	FEE > \$1M ⁽³⁾	FULL DESIGN	NEW CON.	MAJOR RENO	DESIGN-BUILD RFP	VALUE ENG.	CX SERVICES	CPS SERVICES
Renovation of 1st Cavalry Headquarters	✓	✓	✓	✓	✓		✓			✓	✓
Building 373 Dynamometer Facility and Equipment Upgrades	✓	✓	✓	✓	✓		✓		✓	✓	✓
BAK 12/14 Aircraft Arresting System (AAS) Biggs Army Airfield	✓	✓	✓		✓	✓					✓
Repair Medical Warehouse, Building 11156	✓	✓	✓		✓		✓				✓
Renovation of Historic Buildings B5676 and Hangar B6426	✓	✓	✓		✓		✓			✓	✓
CCAD Hangar 8 DB RFP	✓	✓	✓				✓	✓	✓		
Repair Warehouse for LRS/CE Consolidation - B4845	✓	✓	✓	✓	✓		✓			✓	✓
Fort Bliss Hospital CPS	✓	✓	✓	✓	✓	✓			✓	✓	✓
Repair/Renovate Dormitories 10070 and 10075	✓	✓			✓		✓			✓	✓
Fort Bliss JLENS BAT I Phase II UEPH, Tac Training Site, TAFSS Facility	✓	✓		✓	✓	✓		✓			✓

(1) All listed projects are located within SWF AOR

(2) All listed projects were completed since 2011

(3) All listed projects have fees over \$500K

However, it is difficult to describe all of our team's diverse experience with only these 10 project examples. Please note that although we have not held the SWF Military IDIQ contracts for the last several years, the quality of our work has attracted your project managers to use us through available capacity on other contracts with the Corps. In addition to these assignments, we have continued to participate in the USACE military construction program through IDIQ's with other district offices and through one-off design/build projects as designer of record with general contractor partners. Accordingly, we are providing here with additional material related to relevant project experience of our JV members and key team member Michael Baker International.



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This team broad experience in programming, developing plans, specifications and construction cost estimates for vertical design projects including new facility design and facility rehabilitation design. In addition to the projects in Section F, provided below is a list of projects, completed in the last 10 years, in which our team has prepared plans following DoD's UFCs, specifications utilizing USGS in SpecsIntact and construction cost estimates in MII.

Aircraft Hangars, Corrosion Control Facilities Aircraft Maintenance Facilities

Box Hangar Design, DeQuincy Industrial Airpark (5R8), LA \$310K
 KC-46A Depot Fuel Maintenance Hangar Cost Estimate, Tinker Air Force Base, OK \$40K
 Fuel Cell and Corrosion Control Hangar, Cannon AFB, NM \$32.8M
 Unmanned Aerial Systems (UAS) Hangar Renovation, Holloman AFB, NM \$20.4M
 Helicopter Maintenance Facility, NAS North Island, Coronado, CA \$67M
 Building 913 Hangar Renovations for F-35, Luke AFB, AZ \$8.2M
 F-35A Maintenance Hangar/AMU, Nellis AFB, NV \$21M
 Dynamics Component Rebuild Facility, Corpus Christi Army Depot, TX, \$40 M
 Squadron Operations Facility V.E. Study, Cannon AFB, NM, \$20 M



Vehicle Maintenance Facilities, Support Equipment Maintenance Facilities

Revitalization of Diamond U.S. Army Reserve Center, New Orleans, LA \$14M
 Maneuver Systems Sustainment Center, Red River Army Depot, TX \$85M
 Vehicle & Equipment Maintenance Facility, Fort Bliss, TX \$48M
 Armed Forces Reserve Center, Camp Bullis, San Antonio, TX \$39M
 US Army Reserve & TX Army National Guard Reserve Readiness Center, Brownsville, TX \$13M
 Design-Build Tactical Equipment Maintenance Facilities, Fort Sill, OK \$49M
 Armed Forces Reserve Center, McAlester, OK \$17M
 F-35 Aircraft Engine Shop, Nellis AFB, NV \$9M
 P-750 Helicopter Maintenance Facility, Naval Air Station North Island, Coronado, CA \$67M

For the past five years I have had the opportunity and privilege of working with Huitt-Zollars (H-Z) (Fort Worth Group) on a large multimillion dollar industrial operations project at Red River Army Depot (RRAD). We (RRAD) have been a customer of H-Z on this project (Maneuver System Sustainment Center [MSSC]) since the very early program definition/design stages all the way through construction. We work with numerous Contractors/AE Firms/Engineers/Design Teams in our organization and I must say that all of us at RRAD are very impressed with the great service we have received and continue to receive from H-Z. It has also been a tremendous asset that H-Z has been able to pull in several subject matter experts from other companies to aid in the design, plans and logistics handling of this large and complex project. Like many Government projects, the MSSC has endured numerous delays due to funding issues and H-Z has been a true asset in redirecting design plans in order to accomplish changing requirements. We are pleased to have a good working relationship with H-Z and the whole design team and are confident when problems arise we will receive an expeditious and workable response. I assure you we do not always get that kind of response from other firms we work with and have worked with in the past. Thanks again for your outstanding support to Red River Army Depot and the MSSC project in particular. I look forward to working with your team as we continue with this project and future endeavors as well. In short I have to say that H-Z and your team have made us (RRAD) truly feel like a valued customer.

Administrative Offices, Supply Facilities, Civil Engineering Facilities

DTRA Headquarters Facility RFP, Kirtland AFB, NM, \$33 M
 Armed Forces Reserve Center, McAlester, OK \$17M
 Special Operations Recruiting Brigade Office Building, JBSA-Ft. Sam Houston, TX \$7M
 Armed Forces Reserve Center, Grand Prairie Reserve Complex, TX \$29M
 Civil Engineering Building 1671 Addition, NAS Joint Reserve Base Fort Worth, TX \$1.5M
 Bureau of Engraving & Printing Administrative Expansion, Fort Worth, TX \$200M
 MQ-9 Operations and Command Center, Creech AFB, NV \$50M
 Training and Doctrine Command Headquarters & Band Facility, Fort Eustis, VA \$96.6M
 Sustainment Center of Excellence Headquarters Building, Fort Lee, VA \$50M

Sincerely,

Kipling S. Browning
 General Engineer Supervisor
 Engineering, Plans & Services Division
 Red River Army Depot

Dormitory Buildings

Unaccompanied Enlisted Personnel Housing (UEPH), Fort Polk, LA \$24M
 Barracks/Company Operations Facilities Design, Fort Sill, LA \$1.5M
 New Dormitory Estimates, Altus Air Force Base, OK \$825K
 AIT Barracks Complex, Fort Huachuca, Sierra Vista, AZ \$20M
 UEPH & Company Ops Facilities, Fort Carson, CO \$23M
 Dormitories 10070 and 10075, Lackland Air Force Base, TX \$11.9M
 Dormitory 2424 Renovations, Edwards AFB CA \$8M
 Warrior in Transition, Fort Bliss, TX \$51M



Training Site Facilities, Readiness Centers (Armory), Fire Station Facilities

Design and Construction of a New Armed Forces Reserve Center, Round Rock, TX \$24M
 Design of Armed Forces Reserve and Texas National Guard Center, Tyler, TX \$23M
 Design-Build Delivery of Fire Brigade Tactical Equipment Maintenance Facility, Fort Bliss, TX \$11M
 Multi-Use Training Facility, NAS Joint Reserve Base Fort Worth, TX \$1.5M
 Design of 6-Unit Reserve Center Armory and Weapons Range, PA ARNG, PA \$15M
 Firing Range Repairs & Bullet Trap Assembly, Kirtland AFB, NM \$3.1M
 Airmen and Family Readiness Center, Cannon AFB, NM \$5.1 M



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Security Force Facilities, Munitions Maintenance & Storage Facilities

Repair Small Arms Range, Kirtland AFB, Albuquerque, NM \$2.8M
Small Arms Rebuild Facility Renovations, Anniston Army Depot, AL \$26M
Multi-Purpose Machine Gun Range Reconstruction, OHANG, Columbus, OH \$700K
Repair Weapons Range 409, MCB Camp Pendleton, CA \$2.9M
P-876 Indoor Dynamic Range, NOLF, Imperial Beach, CA \$10.8M



Communications and Electronic Maintenance (Including SCIF's)

Defense Threat Reduction Agency (DTRA) Headquarters, Kirtland AFB, NM \$33M
Virtual Warfare Center Operations Facility, Nellis AFB, NV \$20M
1st Cavalry Headquarters Addition and Renovation, Fort Hood, TX \$45M
Sustainment Brigade Complex, Fort Bragg, NC \$27M
McLean Laboratory Renovations, NAVSEL, CA \$5M

Miscellaneous Facilities (Including Mobility & Aerial Port Facilities, Dining Facilities, Medical Training Facilities)

Medical Education Training Campus, JBSA-Ft. Sam Houston, San Antonio, TX \$2B
Joint Land Attack Cruise Missile Defense System (JLENS) Tactical Range Sites, Dona Ana Range, NM \$32M
Col. James J. Weeks Dental Clinic, Fort Sill, OK \$8M



General Infrastructure (Including Secondary Roadways, Site Utilities, Aircraft Fuel Storage & Distribution Systems)

\$1B Military Infrastructure Ft. Bliss expansion program:

- 80 Miles New Roadways
- 500 Acres of Pavement for POV & GOV Parking
- 394 Miles of new or replacement Utilities
- 60 Acres Airfield Apron Paving

BAK 12/14 Aircraft Arresting System, Biggs Army Airfield, Fort Bliss, TX \$2.7M
Combat Aviation Brigade, Hot Refuel Facility, Biggs Army Airfield, Fort Bliss TX \$11M
Tinker Air Force Base Master Drainage Plan, Oklahoma City, OK \$80K
Repair of Airfield Pavements, Altus Air Force Base, Tulsa, OK \$16M
Henry Post Airfield Runway Extension Feasibility Study, Fort Sill, OK \$336K

GRANGER LAKE MANAGEMENT OFFICE BUILDING DESIGN, GRANGER TEXAS

Our team successfully provided complete design services for the development of a Lake Management facility in Granger, Texas in 2019. This vertical facility included complete site design, inclusion of all design features in support of the AEIM and Federal regulations for a secure government facility, site permitting and asbestos remediation and demolition of the previous facility. The previous office building that housed the Lake Management staff at Granger Lake had been in a state of disrepair for several years. In 2018, after multiple foundation settlement and mold issues, the lake staff had to move out of their previous building permanently. In late 2018, our team was tasked by the USACE Ft. Worth District to design a new office building to house the Granger Lake management staff, and to accommodate space for large public meetings and a large volunteer staff.



The Granger Lake Management Office design package was completed by our team before the end of the Federal fiscal year in 2019 and consists of the development of a construction package for the remediation and demolition of the existing 5,890 SF lake management facility located at 3100 Granger Dam Road, Granger, TX, and the design of a new facility across Granger Dam Road from the existing facility. The new facility will be one story and is designed for approximately 4,856 SF in gross area. The design of the new facility includes site development, new construction inclusive of all required services (i.e. electrical /mechanical/ fire protection/life safety/civil/structural/architecture). Design activities also included the design of landscaping, new paving, paving repairs, and force protection. The new facility will house offices for lake management staff, and a conference room to accommodate up to 60 people with tables and chairs. Site lighting was designed, along with parking for visitors and staff. Additionally, the fencing design required for the government vehicle and equipment compound behind the new office, was designed and included with the construction documents.



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Other Support Facilities (Including Major Renovations)

Repair Warehouse for LRS/CE Consolidation (B4845), Barksdale AFB, LA \$7.1M

Environmental Lab Facility, JBSA-Ft. Sam Houston, San Antonio, TX \$4M

11 Bomber Squadron Operations Facility Conversion, Barksdale AFB, LA \$7.7M

School Aged Center (SAC) Design, Fort Polk, LA \$7M

(B) PROFESSIONAL QUALIFICATIONS

As a sign of the priority we place on this assignment, we are proposing an extremely experienced design team of technical experts in a wide variety of project types, with a focus on relevant experience in major military construction—full design for new construction, renovations and building upgrades, and development of RFP's for design/build procurement. All proposed key discipline leaders have at least 10 years' experience; in fact, the average level of experience among the 28 proposed team members is 31 years per person. Each person proposed has extensive DoD experience, and most of the team has the specific experience of having completed design assignments for USACE/SWF in your AOR within the last five years, has functioned in their proposed role on similar assignments, and has been employed by their present firm for an average of 15 years. Please refer to the summary table below for a review of the overall qualifications of this team compared to the personnel needs emphasized in your solicitation.

Name/Role	Edu.	Reg.	Training/ Certs	Yrs of Exp	Yrs w/ Firm	TX/LA Location	MILCON Related Experience			
							SWF	New	Reno	DB RFP
Larry Rogers, PE Program Manager	BS	PE		46	14	TX	✓	✓	✓	✓
James (Jim) Fullmer, PE, LEED AP Project Manager	BS	PE		33	32	TX	✓	✓	✓	✓
Gene Valentine, AIA, FCSI, GGP Project Manager	BA	RA	FCSI, GGP	43	3	TX	✓	✓	✓	✓
Michael DeLeon, PE Civil Engineer	BS	PE		24	15	TX	✓	✓	✓	✓
Kevin Carlson, PE Civil Engineer	BS	PE		26	24	TX	✓	✓	✓	✓
Jim Wilson, PE Civil Engineer	BS	PE		33	9	LA	✓	✓	✓	✓
Chris Scott, RLA, CNU-A Landscape Architect	BLA	RLA	CNU-A	31	14	TX	✓	✓	✓	✓
Jeffrey Holba, RLA, ASLA Landscape Architect	BLA	RLA	ASLA	21	13	TX	✓	✓	✓	✓
William Wallace, PE, SECB, MLSE Structural Engineer	MS, BS	PE	SECB, MLSE	42	11	TX	✓	✓	✓	✓
Brion Echols, PE Structural Engineer	MS, BS	PE		23	18	TX	✓	✓	✓	✓
Manish Mardia, PE Structural Engineer	MS, BS	PE		27	10	LA	✓	✓	✓	✓
William Hoelscher, RA, LEED AP Architect	MA, BA	RA	LEED	33	21	TX	✓	✓	✓	✓
Randall Hickey, RA, RID, NCARB Architect	BArch	RA, RID	NCARB	41	27	TX	✓	✓	✓	✓
Joe Wells, RA, RID Architect	BArch	RA, RID		23	15	TX	✓	✓	✓	✓
Scott Parma, PE, LEED AP Electrical Engineer	BS	PE	LEED	40	17	TX	✓	✓	✓	✓
Leonard Carthon, PE, RA, LEED AP Electrical Engineer	BS, BArch	PE, RA	LEED	47	17	TX	✓	✓	✓	✓
Jeff Roberts, PE, RCDD, LEED AP Electrical Engineer	BS	PE	RCDD, LEED	30	4	TX	✓	✓	✓	✓
Jeffrey Wilson, PE, LEED AP Mechanical Engineer	BS	PE	LEED	17	17	TX	✓	✓	✓	✓
Jaime Espinosa, PE, LEED AP Mechanical Engineer	BS	PE	LEED	18	18	TX	✓	✓	✓	✓
Sergey Aleksanyan, PE, LEED AP Mechanical Engineer	MS	PE	LEED	50	26	TX	✓	✓	✓	✓
Kevin Spangler, PE Fire Protection Engineer	MS, BS	PE		13	12		✓	✓	✓	✓
Nathan Vander Roest, PE Fire Protection Engineer	BS	PE		19	3		✓	✓	✓	✓
Elizabeth Krousel, PE Environmental Engineer	MS, BS	PE		30	14		✓	✓	✓	✓
Gregory Garced, PE Geotechnical Engineer	BS	PE		34	14	TX	✓	✓	✓	✓
Robert Armstrong, PE, CFM Hydraulic Engineer	BS	PE	CFM	35	17	TX	✓	✓	✓	✓
Maria Gatela, CCP Cost Estimator	BS, MFA	CCP		22	11	TX	✓	✓	✓	✓
Stephen Cobb, RPLS Land Surveyor	BS, AS	RPLS		29	28	TX	✓	✓	✓	✓
Don Daigle, CVS, CPE Value Specialist	AAS	CVS	CPE	37	5	TX	✓	✓	✓	✓

Of course, we realize that the key discipline leaders must be supplemented by support personnel in all technical categories. Another advantage that we provide is that we are able to draw on a geographically diverse, resource-rich bench of “reach back” capabilities, as outlined under our discussion of Criteria (d) Capacity and (e) Knowledge of Locality.



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Headquarters 1st Cavalry Division

January 5, 2022

(C) PAST PERFORMANCE

Our team consistently delivers cost efficient, on schedule, and high-quality design work on multi-state or national A-E IDIQs, as demonstrated by our team's 300+ "Exceptional" and "Very Good" ACASS performance ratings on recent contracts. Overall, we have a combined ACASS/CPARS rating of more than 80% Exceptional with the remainder being Very Good or Satisfactory. Neither of the JV partner firms has never received any rating less than Satisfactory. Our successful performance is also demonstrated by the testimonials of some of our clients, such as these:

"MSMM Engineering continuously and repeatedly meets and beats schedule, even with the delay in schedule due to weather (act of God). The firm adjusts and continues to adjust to circumstances out of their control." Dallas Floodway Extension Phase II—Kolawole Anifowoshe, Design Manager, USACE Fort Worth District

"The A-E Project Manager (Manish Mardia) has done a very good job to anticipate Government needs and proactively work them in advance of an issue. When logistical challenges presented themselves due to construction of a project on an adjacent site, the A-E (MSMM) proactively worked options for the Government to make key decision related to completion of this design." Texas City and Vicinity Hurricane Flood Protection Project I-Wall Repair—Kalli Clark-Egan, PE, COR, USACE Galveston District

"Execution of the Fort Bliss Expansion Program is the best, in my opinion, of any major construction program in DoD. That success has been possible because of the commitment and teamwork among all of the members of Team Bliss, the use of a Land Development Engineer approach, and the application of MILCON Transformation principles." Troy Collins, PE, Deputy District Engineer for Programs & Project Management, Fort Worth District, US Army Corps of Engineers

"We asked our LDE partners to handle site development, site design, site integration and staff augmentation. We needed a strong team member in those areas to deliver a program of this magnitude. This was a huge program from the beginning and has now grown from a \$2 billion to \$4.4 billion program. The team has great chemistry and has grown along with program. Everyone has stepped up and delivered." Steve Wright, Account Manager, USACE Fort Worth District



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, NEW ORLEANS DISTRICT
7400 LEAKE AVENUE
NEW ORLEANS, LOUISIANA 70118

DEC 01 2016

Programs and Project Management Division
Projects and Restoration Branch

MSMM Engineering, LLC
4640 South Carrollton Avenue, Suite 220
New Orleans, Louisiana 70119

To Whom It May Concern:

This letter is written to commend the exceptional past performance history of MSMM Engineering, LLC (MSMM). MSMM has been a vital asset to the U.S. Army Corps of Engineers, New Orleans District (MVN), Projects and Restoration Branch. The professionalism, responsiveness, and quality performance has positioned MVN to complete a wide range of many challenging and mission critical projects throughout various stages of the Civil Works process. Given their consistent and effective delivery of assigned task, MSMM is one of the top performing small business Architect-Engineering firms within MVN.

MSMM leadership and staff are customer oriented and driven to succeed irrespective of the task. MSMM consistently completes all assignments within the allotted schedule and budget. They have supported the development and delivery of projects across various MVN programs that includes but is not limited to the Flood Risk Management, Environmental Infrastructure, Planning Assistance to States, Floodplain Management Services, and Continuing Authorities Programs. In addition, their design expertise with levees, floodwalls, water and sewer pump stations has supported the development of sound engineering solutions.

I certainly recommend utilizing this firm to support future needs within Civil Works. Please feel free to contact me at, (504) 862-1674 if additional information is required concerning work performed by MSMM for MVN.

Thanks,

Durand F. Elzey
Senior Project Manager
Projects and Restoration Branch

Quality Management Plan

A big part of our success in achieving this kind of performance ratings and a consistent level of appreciation of our contribution on previous federal projects is our approach to Quality Management. We are ISO-9001 compliant, with a published corporate quality policy and procedures manual, compliance of which is regularly audited by an independent source within the firm.

It is our JV policy to develop an overall project-specific Quality Management Plan (QMP) for each IDIQ/IDC contract—and within each contract, a quality program for each individual task order. In our day-to-day practice, we use an established and documented blend of checks and procedures to maintain quality and assure coordination within our multi-disciplined organization. Items covered in our QMP's include budget restrictions, scheduling restrictions, code and government authority restrictions, submittal requirements, review requirements, deliverables, small business requirements, CAD/BIM drafting standards, specifications, design standards and standard details.

The QMP is individualized for each project/task order, which begins with a complete and thorough Work Plan incorporating all participating offices and sub-consultants' efforts. The Work Plan is developed, distributed, and accepted by all parties prior to the beginning of any project. The individualized plan will describe measures established to assure that design requirements are properly translated into the design contract documents and that the controls are in place for the preparation, review, approval, issue and revision of project documents. Important elements of the plan are as follows:

- ✓ Personnel interfaces and communications plans will be established for all participants including sub-consultants.
- ✓ A plan for Data management for each project is developed. A project central filing system will be determined and maintained, to include web-based SharePoint systems to allow sub-consultants to work in a virtual team arrangement.



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- ✓ Submittal requirements for each formal deliverable under the contract/task order.
- ✓ Similar to a USACE Program or Project Management Plan (PgMP or PMP), our Program Manager will develop a Project Work Plan, the typical elements of which are as follows:
 - ◆ Description of the project, its individual features and the overall scope of work
 - ◆ Statement of project goals, objectives and standards
 - ◆ Functional requirements of project components
 - ◆ Controlling conditions such as codes, laws, zoning, master plan requirements and environmental restrictions
 - ◆ Delineation of how the work is to be performed, costs, schedule, manpower requirements and sub-consultant requirements and scopes of work
 - ◆ Delineation of methods of communication and documentation between team members and the client and user
 - ◆ Project Quality Control Plan specific to the project, including review schedule

(D) CAPACITY

The MHZ joint venture is a proven small business entity with the ability and bench strength to execute multiple task orders at one time. As individual firms, MSMM and Huitt-Zollars currently execute multiple concurrent individual task orders in excess of \$1M each. These task orders consist of horizontal and vertical engineering design and program/project management services across multiple DoD agencies throughout the US. Additionally, our team has a deep bench of highly qualified professionals to pull from when task order demands are high.

Our strategic team composition and highly qualified sub-consultants will help ensure that the SWF has the required service capabilities in the right place at the right time. Not only are MSMM and HZ headquartered in Louisiana and Texas, respectively, but also our team of sub-consultants has multiple offices throughout the SWD AOR, enabling us to provide on-site capabilities, while at the same time, provide you world-class services through our Project Manager Larry Rogers who is located in Fort Worth.

We bring a team with extensive depth of resources both regionally within the five states comprising your AOR and nationwide. With a team of 600 JV personnel and a total team of over 15,000 as well as a history of delivering IDIQs for military customers, our JV team not only has the capacity but also the experience to consistently deliver and manage the delivery order execution to meet designs schedules and accomplish any type of work anticipated on this contract.

Our team specializes in the design and construction of military facilities and has held dozens of IDIQ contracts with capacities from \$12 to \$100M over the last ten years. Major programs served under these contracts include the \$4.8B Fort Bliss Expansion program (under five successive IDIQs), which included the \$1B replacement hospital occupied in 2020, the Dallas Floodway Program, and the ongoing, multi-billion-dollar southern Border Infrastructure Program. On the Fort Bliss Expansion program alone, we prepared 130+ design-bid-build construction packages and completed 285 task orders in seven years. At the peak of the Ft.

Bliss program, our team managed and completed 25+ task orders, for both design and construction phase services, concurrently and put in place \$30M of construction per week. All of these projects were completed on an expedited basis due to pre-determined move-in dates set by the Army users. MSMM has also successfully led large design teams on multi-year IDIQ's, including serving as manager of a four-team JV to support USACE's Hurricane Protection Office in New Orleans for reconstruction and renovation of existing horizontal infrastructure after Hurricane Katrina. The MSMM team was awarded a \$60 M IDIQ for this assignment and completed over 60 task orders during the duration of the contract.

TEAM CAPACITY	
Architects	144
Electrical Engineers	26
Civil Engineers	832
Mechanical Engineers	31
Structural Engineers	184
Land Surveyors	95
Planners	275
Cost Estimators	44
Landscape Architects	16
Certified Value Specialist	2
Hydrology/Hydraulics	63
Environmental Engineers	34
Geotechnical Engineers	5
Geologists	19
Risk Analysis	4
GIS Specialists	205
CADD Technicians	262
Construction Managers	54



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(E) KNOWLEDGE OF LOCALITY

Our JV team has extensive knowledge of the uniquely variable physical settings of the SWD AOR, requiring our design team to weigh many factors in determining the best design solutions for each zone. We have addressed climatic concerns within our designs, including persistent winds and extreme thermal swings of East Texas, humid design conditions and hurricane force resistance along the Gulf Coast, and seismic conditions of north Texas and Oklahoma. We employ first-hand knowledge of local conditions.

Please refer to the map provided under criteria (g) below, which indicates our team's office locations and projects completed in each state. As a part of our design approach, we typically identify local climatic conditions, environmental factors such as the presence of endangered species and clean water act influences, weather patterns, and seismic impacts to develop an approach that recognizes these issues and considers applicable methodologies to mitigate and/or compensate for each.

HYDROLOGY/ENVIRONMENTAL

Our team has performed a wide variety of environmental projects throughout this region. We have experience working with all local and state agencies having jurisdictional authority. Issues include Storm Water Pollution Prevention Plans (SWPPP), solid/ hazardous waste disposal, voluntary clean-up programs, asbestos and lead-based paint investigations, underground storage tanks, air permitting, wetland delineations and 404 permitting. Dust control and air quality are important issues at Fort Bliss. Our practice is to include in our construction documents provisions for dust control during construction in the specifications. The JV design team has completed numerous contracts involving environmental assessment, remediation, and restoration. As such, the team is knowledgeable of federal and state rules and regulations involving solid waste, water quality, air quality, watershed protection, and waste minimization and recycling.

SOILS

The challenges presented by poor soils for foundations are well known to the JV team. We are experienced with designing projects to accommodate the varying geomorphic provinces of the states within the AOR. For the Tactical Equipment Maintenance Facility, Fort Hood, TX (USACE, Fort Worth District), which was situated on a site where three predominant physiographic Texas provinces converge, the JV team addressed the extreme shrinkage and swelling of clay soils that impacted the facilities foundation design. Drilled pier foundations coupled with grade beams were constructed to create a void between the soil and the beam structure to avoid the effects of heaving and expansion on the foundation and building system.

SEISMIC

Structural design and design modification to structures utilizes collapse protection strategy for lateral forces resistance in accordance with IBC Chapter 16 specifically, Section 1613, Earthquake Loads. These designs are governed by seismic round motion response values established in the code, USGS maps, and per ASCE 7 Minimum Design Loads for Buildings. For various Barracks Facilities, Fort Bliss, TX; Fort Sill, OK; Fort Polk, LA; Fort Hood, TX; and Fort Sam Houston, TX (USACE, Fort Worth District), our team has incorporated shear walls to resist lateral forces for projects utilizing wood and light gauge steel framing.

WEATHER/CLIMATE

As stated previously, we always address climate concerns within our designs. The climate/weather conditions for SWD AOR are diverse and include persistent winds and extreme thermal swings of East Texas, humid design conditions and hurricane force resistance along the Gulf Coast, seismic conditions of north Texas and Oklahoma, and big extremes between the four seasons with hot summers and cold winters in the northern part of the region. Air-handling systems will be analyzed for the most stringent climate criteria. Outdoor air intakes should not be located on west facing building exposures, to the maximum practical extent, in order to minimize intake during strong western winds.

LOCAL CODES

The JV design team is familiar and knowledgeable of the codes and regulations governing design of federal facilities in the AOR. All facilities completed follow the



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family of codes of the International Code Council [IBC, IMC, IPC, IFC, IEC]; NFPA (including 101 LSC); ADA & ABA; as well as the Energy Policy Act of 2005 and the LEED principles of USGBC. Projects comply with Unified Facilities Criteria as well as applicable Engineering Technical Letters/Bulletins. The JV team also complies with design regulations of each state in which the project is located and thus are familiar with those governing codes, including those administered by the State Fire Marshal, Department of State Health Sciences, State Energy Conservation office, State Historic Preservation Office, and Accessibility regulations, if applicable.

(F) UTILIZATION OF SMALL BUSINESS FIRMS

The SB participation plan presented on the next page shows the commitment to subcontract and exceed the small business participation goal of 8%. As MHZ is a small business joint venture, we are committed to performing a minimum of 72% of the anticipated contract value, with a total of 90% of the contract anticipated for small business concerns. In addition, we do plan to utilize our subcontractors both small and large for specialty services and added bench strength.

Firm Role	SB Designation	Fee Subcontracted	Large Business	SB	SDB	WOSB	HUB Zone	SDVOSB	VOSB	Percentage of Contract
MHZ, JV All Services	SB, SDB	\$7,200		\$7,200	\$7,200					72.00%
Alliance WSP, JV Fire Protection, Planning, Civil	SB, SDB, SDVOSB	\$450		\$450	\$450			\$450	\$450	4.50%
ARS Engineering Survey and Civil Engineering	SB, SDB	\$300		\$300	\$300					3.00%
ETTL Engineers & Consultants Geotech, Materials Testing	SB, WOSB	\$100		\$100		\$100				1.00%
EudaCorp Cost Estimating, Scheduling, VE	SB, SDB	\$300		\$300	\$300					3.00%
JESCO Environmental (HTRW), Geotech	SB, SDB, WOSB	\$100		\$100	\$100	\$100				1.00%
Michael Baker International Bench Strength	NA	\$0	\$1,000							10.00%
R Christopher Goodwin Archeology, Cultural Resources	SB	\$50		\$50						0.50%
Singhofen and Associates Environmental, Civil	SB, HUBZone	\$250		\$250			\$250			2.50%
The Rios Group SUE, Survey	SB, SDB, WOSB	\$100		\$100	\$100	\$100				1.00%
Terrane Engineering Corporation Geotechnical Engineering	SB, HUBZone	\$100		\$100			\$100			1.00%
Vernadero Group Environmental (NEPA)	SB, VOSB	\$50		\$50					\$50	0.50%
Total Subcontracted \$		\$1,800	\$1,000	\$1,800	\$1,250	\$300	\$350	\$450	\$500	28.00%
Percentage of Subcontracted \$				100.0%	69.4%	16.7%	19.4%	25.0%	27.8%	

\$ are in Thousands, Assumed Contract Value of \$10M

	USACE %Goal of Total Contract Value	Percentage of Subcontracted Amount	Total \$ Amount Sub	% of Contract Value
Large Business	0%	35.7%	\$1,000	10.0%
Small Business	7%	321.4%	\$9,000	90.0%
SDB	4%	44.6%	\$1,250	12.5%
WOSB	3%	10.7%	\$300	3.0%
HUBZone	1%	12.5%	\$350	3.5%
SDVOSB	1%	16.1%	\$450	4.5%
VOSB	1%	17.9%	\$500	5.0%

Contract Value*	\$10,000	
Total Subcontracted	\$2,800	28.0%
Small Business	\$9,000	90.0%
Large Business	\$1,000	10.0%

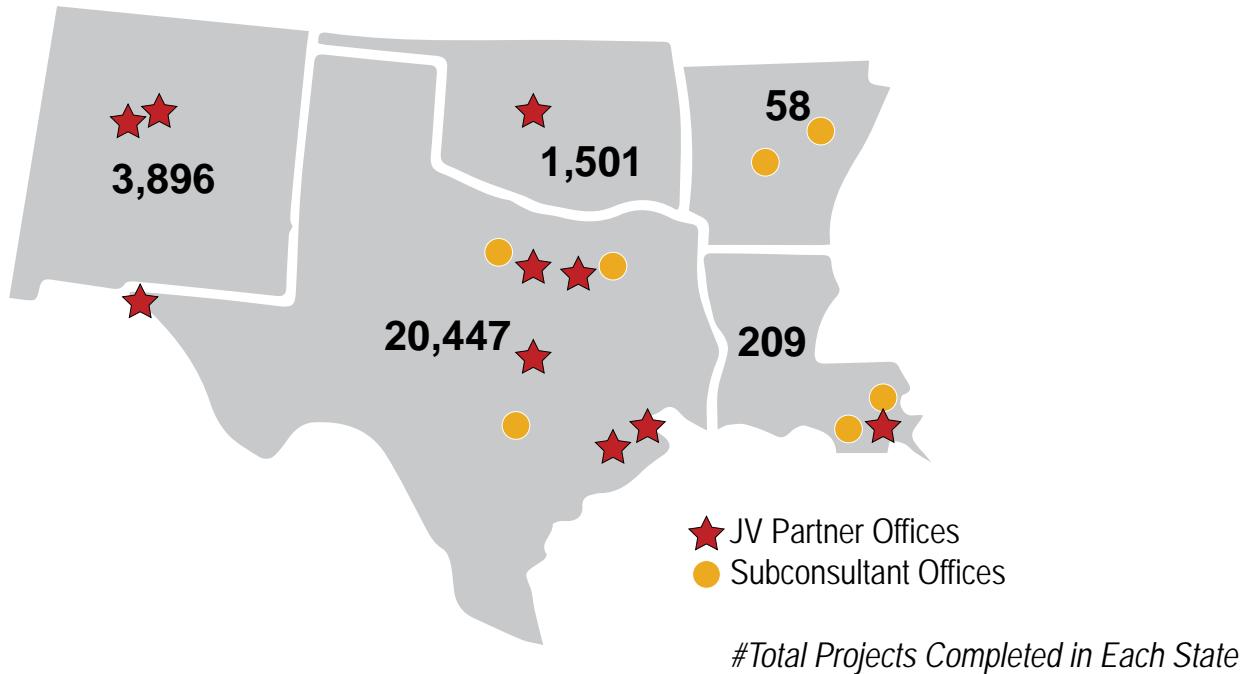
*Assumed contract value of 10M over 7 years



US Army Corps
of Engineers®

(G) GEOGRAPHIC PROXIMITY

Our JV team is based in or has branch offices in the states of Texas, Louisiana, New Mexico, and Oklahoma with core disciplines (full-service) including architects, and mechanical, civil, electrical, and structural engineers working in the same office. We have performed nearly 25,000 projects throughout these five states as noted in the graphic below.



(H) VOLUME OF DOD CONTRACT AWARDS

Below is the table of awards for the JV as well as MSMM. Huitt-Zollars does not have any individual prime awards within the last 12 months.

Project Name	Agency	Contract	Amount	Date
MHZ				
Minimum Guarantee	USACE Tulsa District	W9126BV20D0027	\$2500	October 2020
MSMM				
East Baton Rouge Flood Risk Management PM Services	USACE New Orleans District	W912P821F0182	\$492,226.25	July 2021

I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE

32. DATE

January 5, 2022

33. NAME AND TITLE

Monica Kent, PE | JV Board Member



PART II

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (*If any*)
W9126G-20-R-0041

PART II - GENERAL QUALIFICATIONS

PART II - GENERAL QUALIFICATIONS
(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME MSMM Huitt-Zollars A Joint Venture			3. YEAR ESTABLISHED 2019	4. DUNS NUMBER 117073814
2b. STREET 4640 S Carrollton Ave Ste 220			5. OWNERSHIP	
			a. TYPE Joint Venture	
2c. CITY New Orleans			b. SMALL BUSINESS STATUS Small Business	
6a. POINT OF CONTACT NAME AND TITLE Manish Mardia, Joint Venture Chairman			7. NAME OF FIRM (<i>If block 2a is a branch office</i>)	
6b. TELEPHONE NUMBER 504-559-1897		6c. E-MAIL ADDRESS mmardia@msmmeng.com		
8a. FORMER FIRM NAME(S) (<i>If any</i>)			8b. YR. ESTABLISHED	8c. DUNS NUMBER

9. EMPLOYEES BY DISCIPLINE

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

ANNUAL AVERAGE REVENUE FOR LAST 3 YEARS						
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
	NOTE: The Joint Venture does not have employees, it is a legal entity. Locations listed for JV personnel in section E resumes are the individuals respective firm's office location.					
Total						

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

SERVICES REVENUES OF FIRM FOR LAST 3 YEARS <i>(Insert revenue index number shown at right)</i>		PROFESSIONAL SERVICES REVENUE INDEX		
	1	1. Less Than \$100,000	6.	\$2 million to less than \$5 million
a. Federal Work	1	2. \$100,000 to less than \$250,000	7.	\$5 million to less than \$10 million
b. Non-Federal Work	1	3. \$250,000 to less than \$500,000	8.	\$10 million to less than \$25 million
c. Total Work	1	4. \$500,000 to less than \$1 million	9.	\$25 million to less than \$50 million
		5. \$1 million to less than \$2 million	10.	\$50 million or greater

12. AUTHORIZED REPRESENTATIVE - The foregoing is a statement of facts.

a. SIGNATURE  b. DATE December 29, 2021

c. NAME AND TITLE

Omar

b. DATE

c. NAME AND TITLE

Manish Mardia, Joint Venture Chairman

ARCHITECT-ENGINEER QUALIFICATIONS					1. SOLICITATION NUMBER (<i>If any</i>) W9126G-20-R-0041		
PART II – GENERAL QUALIFICATIONS <i>(If a firm has branch offices, complete for each specific branch office seeking work)</i>							
2a. FIRM (Or Branch Office) NAME MSMM Engineering, LLC CAGE Code: 6SKR5					3. YEAR ESTABLISHED 2011	4. UNIQUE ENTITY IDENTIFIER 969989370	
2b. STREET 4640 South Carrollton Avenue, Suite 220					5. OWNERSHIP		
2c. CITY New Orleans		2d. STATE LA	2e. ZIP CODE 70119	a. TYPE Limited Liability Corporation			
6a. POINT OF CONTACT NAME AND TITLE Manish Mardia, P.E., President/Owner					b. SMALL BUSINESS STATUS Small Business		
6b. TELEPHONE NUMBER 504-559-1897		6c. EMAIL ADDRESS mmardia@msmmeng.com			7. NAME OF FIRM (<i>If block 2a is a branch office</i>)		
8. FORMER NAME(S) (<i>If any</i>)				8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER		
9. EMPLOYEES BY DISCIPLINE					10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)	
		(1) FIRM	(2) BRANCH				
12	Civil Engineer	3	2	C07	Coastal Engineering	2	
21	Electrical Engineer	1	1	C13	Computer Facilities; Computer Service	2	
23	Environmental Engineer	2	1	C15	Construction Management	3	
57	Structural Engineer	2	1	D01	Dams (Concrete; Arch)	1	
42	Foundation/Geotechnical Engineer	1		D02	Dams; Dikes; Levees	2	
24	Environmental Scientist	1	1	E03	Electrical Studies and Design	1	
32	Hydraulic Engineer	1	1	L06	Lighting (Exteriors; Streets; Memorials Athletic Fields)	1	
18	Cost Engineer / Estimator	1		P06	Planning (Site, Installation and Project)	4	
08	CADD Technician	4	3	R11	Rivers; Canals: Waterways; Flood Control	4	
06	Architect	1	1	S09	Structural Design; Special Structures	2	
48	Project Manager	2	2	S13	Storm Water Handling & Facilities	3	
61	Value Engineer	1	1	W02	Water Resources; Hydrology Ground Water	2	
15	Inspector	3	3	W03	Water Supply; Treatment and Distribution	3	
02	Administrative	2	1				
Total		25	18				
11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS <i>(Insert revenue index number shown at right)</i>		PROFESSIONAL SERVICES REVENUE INDEX NUMBER					
a. Federal Work	6	1. Less than \$100,000 6. \$2 million to less than \$5 million					
b. Non-Federal Work	5	2. \$100,000 to less than \$250,000 7. \$5 million to less than \$10 million					
c. Total Work	6	3. \$250,000 to less than \$500,000 8. \$10 million to less than \$25 million					
		4. \$500,000 to less than \$1 million 9. \$25 million to less than \$50 million					
		5. \$1 million to less than \$2 million 10. \$50 million or greater					
12. AUTHORIZED REPRESENTATIVE <i>The foregoing is a statement of facts.</i>							
a. SIGNATURE						b. DATE	December 31, 2021
c. NAME AND TITLE Manish Mardia, P.E., President/Owner							

ARCHITECT-ENGINEER QUALIFICATIONS					1. SOLICITATION NUMBER (If any) W9126G-20-R-0041		
PART II – GENERAL QUALIFICATIONS <i>(If a firm has branch offices, complete for each specific branch office seeking work)</i>							
2a. FIRM (Or Branch Office) NAME MSMM Engineering, LLC (Houston Texas Office)					3. YEAR ESTABLISHED 2011	4. UNIQUE ENTITY IDENTIFIER 071392535	
2b. STREET 13850 Gulf Freeway, Suite 202A CAGE Code: 8DSX1					5. OWNERSHIP		
2c. CITY Houston		2d. STATE TX	2e. ZIP CODE 77034	a. TYPE Limited Liability Corporation			
6a. POINT OF CONTACT NAME AND TITLE Manish Mardia, P.E., President/Owner					b. SMALL BUSINESS STATUS Small Business		
6b. TELEPHONE NUMBER 504-559-1897		6c. EMAIL ADDRESS mmardia@msmmeng.com			7. NAME OF FIRM (If block 2a is a branch office) MSMM Engineering, LLC		
8. FORMER NAME(S) (If any)					8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER	
9. EMPLOYEES BY DISCIPLINE					10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)	
		(1) FIRM	(2) BRANCH				
12	Civil Engineer	3	1	C07	Coastal Engineering	2	
21	Electrical Engineer	1		C13	Computer Facilities; Computer Service	2	
23	Environmental Engineer	2	1	C15	Construction Management	3	
57	Structural Engineer	2	1	D01	Dams (Concrete; Arch)	1	
42	Foundation/Geotechnical Engineer	1	1	D02	Dams; Dikes; Levees	2	
24	Environmental Scientist	1		E03	Electrical Studies and Design	1	
32	Hydraulic Engineer	1		L06	Lighting (Exteriors; Streets; Memorials Athletic Fields)	1	
18	Cost Engineer / Estimator	1	1	P06	Planning (Site, Installation and Project)	4	
08	CADD Technician	4	1	R11	Rivers; Canals: Waterways; Flood Control	4	
06	Architect	1		S09	Structural Design; Special Structures	2	
48	Project Manager	2		S13	Storm Water Handling & Facilities	3	
61	Value Engineer	1		W02	Water Resources; Hydrology Ground Water	2	
15	Inspector	3		W03	Water Supply; Treatment and Distribution	3	
02	Administrative	2	1				
Total		25	7				
11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS <i>(Insert revenue index number shown at right)</i>		PROFESSIONAL SERVICES REVENUE INDEX NUMBER					
a. Federal Work	6	1. Less than \$100,000 6. \$2 million to less than \$5 million					
b. Non-Federal Work	5	2. \$100,000 to less than \$250,000 7. \$5 million to less than \$10 million					
c. Total Work	6	3. \$250,000 to less than \$500,000 8. \$10 million to less than \$25 million					
		4. \$500,000 to less than \$1 million 9. \$25 million to less than \$50 million					
		5. \$1 million to less than \$2 million 10. \$50 million or greater					
12. AUTHORIZED REPRESENTATIVE <i>The foregoing is a statement of facts.</i>							
a. SIGNATURE						b. DATE	December 31, 2021
c. NAME AND TITLE Manish Mardia, P.E., President/Owner							

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

W9126G-20-R-0041

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (or Branch Office) NAME Huitt-Zollars, Inc.	3. YEAR ESTABLISHED 1975	4. UNIQUE ENTITY IDENTIFIER 080747660
2b. STREET 5430 LBJ Freeway, Suite 1500	5. OWNERSHIP	
2c. CITY Dallas	2d. STATE Texas	2e. ZIP CODE 75240
6a. POINT OF CONTACT NAME AND TITLE Robert J. McDermott, PE, President	a. TYPE Corporation	
6b. TELEPHONE NUMBER 214-871-3311	6c. E-MAIL ADDRESS mcdermott@huitt-zollars.com	b. SMALL BUSINESS STATUS Large Business
		7. NAME OF FIRM (If Block 2a is a Branch Office) N/A

8a. FORMER FIRM NAME(S) (If any)

8b. YEAR ESTABLISHED

8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Function Code	b. Discipline	c. Number of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	68	37	A06	Airports; Terminals and Hangars; Freight Handling	1
06	Architect	90	4	B02	Bridges	7
08	CADD Technician	46	11	C15	Construction Management	6
12	Civil Engineer	159	33	C16	Construction Surveying	6
15	Construction Inspector	4		D04	Design-Build – Preparation of RFPs	4
16	Construction Manager	10	1	G01	Garages; Vehicles Maintenance Facilities; Parking Decks	6
21	Electrical Engineer	16		H04	Heating; Ventilating; Air Conditioning	6
23	Environmental Engineer	2	1	H07	Highways; Streets; Airfield Paving; Parking Lots	8
25	Fire Protection Engineer	2		H11	Housing (Residential, Multi-Family; Apartments)	3
37	Interior Designer	6	1	I06	Irrigation; Drainage	6
38	Land Surveyor	57	16	L02	Land Surveying	7
39	Landscape Architect	6	6	L03	Landscape Architecture	6
42	Mechanical Engineer	24	1	P06	Planning (Site, Installation and Project)	7
47	Planner: Urban/Regional	4		R04	Recreation Facilities (Parks, Marinas, Etc.)	4
57	Structural Engineer	17	7	S04	Sewage Collection, Treatment and Disposal	7
60	Transportation Engineer	15	9	S10	Surveying; Platting; Mapping; Flood Plain Studies	6
62	Water Resource Engineer	12	7	S11	Sustainable Design	6
				S13	Storm Water Handling and Facilities	5
	Other Employees			T04	Topographic Surveying and Mapping	5
Total		538	134			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work	6
b. Non-Federal Work	8
c. Total Work	8

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than \$100,000
2. \$100,000 to less than \$250,000
3. \$250,000 to less than \$500,000
4. \$500,000 to less than \$1 million
5. \$1 million to less than \$2 million
6. \$2 million to less than \$5 million
7. \$5 million to less than \$10 million
8. \$10 million to less than \$25 million
9. \$25 million to less than \$50 million
10. \$50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE

b. DATE

12/29/2021

c. NAME AND TITLE

Monica Kent, PE, LEED AP, Senior Vice President

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)
W9126G-20-R-0041

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (or Branch Office) NAME Huitt-Zollars, Inc.	3. YEAR ESTABLISHED 1975	4. UNIQUE ENTITY IDENTIFIER 036623460
2b. STREET 5822 Cromo Drive, Suite 210	5. OWNERSHIP	
2c. CITY El Paso	2d. STATE Texas	2e. ZIP CODE 79912-5502
6a. POINT OF CONTACT NAME AND TITLE Isabel Vasquez, PE, Vice President	a. TYPE Corporation	b. SMALL BUSINESS STATUS Large Business
6b. TELEPHONE NUMBER 915-587-4339	6c. E-MAIL ADDRESS ivasquez@huitt-zollars.com	7. NAME OF FIRM (If Block 2a is a Branch Office) Huitt-Zollars, Inc.
8a. FORMER FIRM NAME(S) (If any)		8b. YEAR ESTABLISHED
		8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Function Code	b. Discipline	c. Number of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	68	1	C15	Construction Management	4
06	Architect	90	3	C16	Construction Surveying	1
08	CADD Technician	46	2	E09	Environmental Impact Studies, Assessments or Statements	1
12	Civil Engineer	159	9	E12	Environmental Remediation	2
15	Construction Inspector	4		H07	Highways; Streets; Airfield Paving; Parking Lots	5
16	Construction Manager	10	1	L02	Land Surveying	2
21	Electrical Engineer	16		P06	Planning (Site, Installation and Project)	1
23	Environmental Engineer	2		S04	Sewage Collection, Treatment and Disposal	2
25	Fire Protection Engineer	2		S10	Surveying; Platting; Mapping; Flood Plain Studies	3
37	Interior Designer	6		S11	Sustainable Design	1
38	Land Surveyor	57	1	T03	Traffic and Transportation Engineering	2
39	Landscape Architect	6		T04	Topographic Surveying and Mapping	3
42	Mechanical Engineer	24		W03	Water Supply; Treatment and Distribution	4
47	Planner: Urban/Regional	4				
57	Structural Engineer	17				
60	Transportation Engineer	15				
62	Water Resource Engineer	12				
	Other Employees					
	Total	538	17			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work	1
b. Non-Federal Work	6
c. Total Work	6

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than \$100,000
2. \$100,000 to less than \$250,000
3. \$250,000 to less than \$500,000
4. \$500,000 to less than \$1 million
5. \$1 million to less than \$2 million
6. \$2 million to less than \$5 million
7. \$5 million to less than \$10 million
8. \$10 million to less than \$25 million
9. \$25 million to less than \$50 million
10. \$50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE

b. DATE

12/29/2021

c. NAME AND TITLE

Monica Kent, PE, LEED AP, Senior Vice President

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

W9126G-20-R-0041

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (or Branch Office) NAME Huitt-Zollars, Inc.				3. YEAR ESTABLISHED 1975	4. UNIQUE ENTITY IDENTIFIER 156399560
2b. STREET 500 W. 7th Street, Suite 300				5. OWNERSHIP	
2c. CITY Fort Worth		2d. STATE Texas	2e. ZIP CODE 76102-4728	a. TYPE Corporation	b. SMALL BUSINESS STATUS Large Business
6a. POINT OF CONTACT NAME AND TITLE Larry O. Rogers, PE, Vice President				7. NAME OF FIRM (If Block 2a is a Branch Office) Huitt-Zollars, Inc.	
6b. TELEPHONE NUMBER 817-335-3000		6c. E-MAIL ADDRESS lrogers@huitt-zollars.com		8a. FORMER FIRM NAME(S) (If any)	
				8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Function Code	b. Discipline	c. Number of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	68	4	A09	Anti-Terrorism/Force Protection	4
06	Architect	90	11	B01	Barracks; Dormitories	4
08	CADD Technician	46	6	C15	Construction Management	2
12	Civil Engineer	159	7	D04	Design-Build Preparation RFP's	3
15	Construction Inspector	4		D07	Dining Halls; Clubs; Restaurants	2
16	Construction Manager	10	1	E02	Educational Facilities; Classrooms	2
21	Electrical Engineer	16	10	E05	Elevators; Escalators; People-Movers	1
23	Environmental Engineer	2		E07	Energy Conservation; New Energy Sources	5
25	Fire Protection Engineer	2	1	F03	Fire Protection	4
37	Interior Designer	6		G01	Garages; Vehicle Maintenance Facilities; Parking	5
38	Land Surveyor	57		H07	Highways; Streets; Airfield Paving; Parking	4
39	Landscape Architect	6		H11	Housing (Residential, Multi-Family; Apartments; Condominiums)	3
42	Mechanical Engineer	24	14	I01	Industrial Buildings; Manufacturing Plants	5
47	Planner: Urban/Regional	4		I05	Interior Design; Space Planning	2
57	Structural Engineer	17	4	I06	Irrigation; drainage	
60	Transportation Engineer	15		J01	Judicial and Courtroom Facilities	4
62	Water Resource Engineer	12		M05	Military Design Standards	3
				O01	Office Buildings; Industrial Parks	5
				P08	Prisons & Correctional Facilities	2
				R06	Rehabilitation (Buildings; Structures; Fac's)	5
	Other Employees			S11	Sustainable Design	6
Total		538	58	W01	Warehouses & Depots	5

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work	6
b. Non-Federal Work	5
c. Total Work	7

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than \$100,000
2. \$100,000 to less than \$250,000
3. \$250,000 to less than \$500,000
4. \$500,000 to less than \$1 million
5. \$1 million to less than \$2 million
6. \$2 million to less than \$5 million
7. \$5 million to less than \$10 million
8. \$10 million to less than \$25 million
9. \$25 million to less than \$50 million
10. \$50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE

b. DATE

12/29/2021

c. NAME AND TITLE

Monica Kent, PE, LEED AP, Senior Vice President

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

W9126G-20-R-0041

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (or Branch Office) NAME Huitt-Zollars, Inc.	3. YEAR ESTABLISHED 1975	4. UNIQUE ENTITY IDENTIFIER 879473999
2b. STREET 10350 Richmond Ave., Suite 300	5. OWNERSHIP Corporation	
2c. CITY Houston	2d. STATE Texas	2e. ZIP CODE 77042-4248
6a. POINT OF CONTACT NAME AND TITLE Gregory R. Wine, PE, LEED AP, Vice President		
6b. TELEPHONE NUMBER 281-496-0066	6c. E-MAIL ADDRESS gwine@huitt-zollars.com	
8a. FORMER FIRM NAME(S) (If any)		8b. YEAR ESTABLISHED
		8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Function Code	b. Discipline	c. Number of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	68	5	B01	Barracks; Dormitories	2
06	Architect	90	2	C15	Construction Management	5
08	CADD Technician	46	4	D04	Design-Build – Prep RFPs	4
12	Civil Engineer	159	25	E02	Educational Facilities; Classrooms	4
15	Construction Inspector	4	1	G01	Garages; Vehicles Maintenance Facilities; Parking Decks	4
16	Construction Manager	10	5	H01	Harbors; Jetties, Piers, Ship Terminal Facilities	3
21	Electrical Engineer	16	1	H07	Highways; Streets; Airfield Paving; Parking Lots	6
23	Environmental Engineer	2		I05	Interior Design; Space Planning	2
25	Fire Protection Engineer	2		O01	Office Buildings, Industrial Parks	3
37	Interior Designer	6	1	R03	Railroad; Rapid Transit	7
38	Land Surveyor	57	4	R04	Recreation Facilities (Parks, Marinas, Etc.)	5
39	Landscape Architect	6		R06	Rehabilitation (Buildings; Structures; Facilities)	6
42	Mechanical Engineer	24	2	R11	Rivers; Canals; Waterways; Flood Control	6
47	Planner: Urban/Regional	4		S04	Sewage Collection; Treatment and Disposal	5
57	Structural Engineer	17		S10	Surveying; Platting; Mapping; Flood Plain Studies	5
60	Transportation Engineer	15		S11	Sustainable Design	4
62	Water Resource Engineer	12	1	S13	Storm Water Handling and Facilities	4
				T03	Traffic and Transportation Engineering	3
	Other Employees			T04	Topographic Surveying and Mapping	5
Total		538	51			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

PROFESSIONAL SERVICES REVENUE INDEX NUMBER	
1. Less than \$100,000	6. \$2 million to less than \$5 million
2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million
3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million
4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million
5. \$1 million to less than \$2 million	10. \$50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE

b. DATE

12/29/2021

c. NAME AND TITLE

Monica Kent, PE, LEED AP, Senior Vice President

ARCHITECT – ENGINEER QUALIFICATIONS

 1. SOLICITATION NUMBER (*If any*)
W9126G-20-R-0041
PART II – GENERAL QUALIFICATIONS
(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME Michael Baker International, Inc. (CAGE CODE 540F6)			3. YEAR ESTABLISHED 2015	4. UNIQUE ENTITY IDENTIFIER 827041075
2b. STREET 1501 Lyndon B. Johnson Freeway, Suite 650			5. OWNERSHIP	
2c. CITY Dallas		2d. STATE TX	2e. ZIP CODE 75234	a. TYPE Limited Liability Company
6a. POINT OF CONTACT NAME AND TITLE Michael H. Stengel, P.E., Office Executive			b. SMALL BUSINESS STATUS No	
6b. TELEPHONE NUMBER 469-801-8526		6c. E-MAIL ADDRESS mhstengel@mbakerintl.com		7. NAME OF FIRM (<i>If Block 2a is a Branch Office</i>) Michael Baker International, LLC
8a. FORMER FIRM NAME(S) (<i>If any</i>) Michael Baker Jr., Inc.			8b. YEAR ESTABLISHED 2006	8c. UNIQUE ENTITY IDENTIFIER 827041075

9. EMPLOYEES BY DISCIPLINE
**10. PROFILE OF FIRM'S EXPERIENCE
AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS**

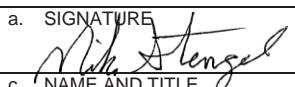
a. Function Code	b. Discipline	c. Number of Employees (1) FIRM (2) BRANCH	a. Profile Code	b. Experience	c. Revenue Index Number (see below)
02	Administrative	625	14	A06	Airports; Terminals; & Hangars; Freight Handling
06	Architect	51	4	B02	Bridges
12	Civil Engineer	488	9	C15	Construction Management
15	Construction Inspector	248	7	E09	EIS, Assessments or Statements
16	Construction Manager	113	2	G04	GIS: Development, Analysis, & Data Collection
27	Foundation/Geotechnical Engineer	16	1	H07	Highways; Streets; Airfield Paving; Parking Lots
29	GIS Specialist	120	1	T03	Traffic & Transportation Engineering
48	Project Manager	65	5		Municipal Engineering
53	Scheduler	8	1		
57	Structural Engineer	143	6		
58	Technician/Analyst	75	1		
60	Transportation Engineer	144	6		
	Architectural Technician	25	1		
	Bridge Inspector	39	3		
	Designer/CADD Technician	190	4		
	Engineering Technician	501	18		
	Planner	191	2		
	Other Employees	437	0		
	Total	3479	85		

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS
(Insert revenue index number shown at right)
PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- 1. Less than \$100,000
- 2. \$100,000 to less than \$250,000
- 3. \$250,000 to less than \$500,000
- 4. \$500,000 to less than \$1 million
- 5. \$1 million to less than \$2 million
- 6. \$2 million to less than \$5 million
- 7. \$5 million to less than \$10 million
- 8. \$10 million to less than \$25 million
- 9. \$25 million to less than \$50 million
- 10. \$50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE 7/12/2021
c. NAME AND TITLE Michael H. Stengel, P.E., Office Executive	

ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (*If any*)
W9126G-20-R-0041

PART II – GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME Michael Baker International, Inc. (CAGE CODE 3BNH6)			3. YEAR ESTABLISHED 2015	4. UNIQUE ENTITY IDENTIFIER 044679335
2b. STREET 7090 South Union Park Avenue, Suite 500			5. OWNERSHIP	
2c. CITY Salt Lake City		2d. STATE UT	2e. ZIP CODE 84047	a. TYPE Limited Liability Company
6a. POINT OF CONTACT NAME AND TITLE Michael S. Arens, P.E., S.E., Office Executive			b. SMALL BUSINESS STATUS No	
6b. TELEPHONE NUMBER 801-352-5981		6c. E-MAIL ADDRESS marens@mbakerintl.com		7. NAME OF FIRM (<i>If Block 2a is a Branch Office</i>) Michael Baker International, LLC
8a. FORMER FIRM NAME(S) (<i>If any</i>) Michael Baker Jr., Inc.			8b. YEAR ESTABLISHED 1998	8c. UNIQUE ENTITY IDENTIFIER 044679335

9. EMPLOYEES BY DISCIPLINE

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- | | |
|---|---|
| 1. Less than \$100,000 | 6. \$2 million to less than \$5 million |
| 2. \$100,000 to less than \$250,000 | 7. \$5 million to less than \$10 million |
| 3. \$250,000 to less than \$500,000 | 8. \$10 million to less than \$25 million |
| 4. \$500,000 to less than \$1 million | 9. \$25 million to less than \$50 million |
| 5. \$1 million to less than \$2 million | 10. \$50 million or greater |

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE


b. DATE

Michael S. Arens, P.E., S.E., Office Executive

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

W9126G-20-R-0041

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (or Branch Office) NAME Alliance WSP JV, LLC			3. YEAR ESTABLISHED 2017	4. UNIQUE ENTITY IDENTIFIER 08-090-4567
2b. STREET 1635 Prince Street			5. OWNERSHIP	
2c. CITY Alexandria		2d. STATE VA	2e. ZIP CODE 22314	a. TYPE Joint Venture - LLC (Unpopulated)
6a. POINT OF CONTACT NAME AND TITLE Kenneth Nassif, PE, CEM, CCP Managing Director			b. SMALL BUSINESS STATUS SDVOSB	7. NAME OF FIRM (If Block 2a is a Branch Office)
6b. TELEPHONE NUMBER 202-617-8485	6c. EMAIL ADDRESS knassif@alliance.us.com			
8a. FORMER FIRM NAME(S) (If any)			8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. Number of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administration/Other	0	0			
05	Archaeologist	0	0			
06	Architect	0	0			
07	Biologist	0	0			
08	CADD Technician	0	0			
12	Civil Engineer	0	0			
15	Const. Inspector	0	0			
16	Const. Manager	0	0			
18	Cost Eng./Estimator	0	0			
21	Electrical Engineer	0	0			
23	Enviro. Engineer	0	0			
26	Fire Protection Engineer	0	0			
29	GIS Specialist	0	0			
30	Geologist	0	0			
39	Landscape Architect	0	0			
42	Mechanical Engineer	0	0			
47	Planner	0	0			
48	Project Manager	0	0			
57	Structural Engineer	0	0			
60	Transp. Engineer	0	0			
Other Employees						
Total		0	0			

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work	1
b. Non-Federal Work	1
c. Total Work	1

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. Less than \$100,000 2. \$100,000 to less than \$250,000 3. \$250,000 to less than \$500,000 4. \$500,000 to less than \$1 million 5. \$1 million to less than \$2 million | <ol style="list-style-type: none"> 6. \$2 million to less than \$5 million 7. \$5 million to less than \$10 million 8. \$10 million to less than \$25 million 9. \$25 million to less than \$50 million 10. \$50 million or greater |
|--|--|

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE

b. DATE

12/27/2021

c. NAME AND TITLE

Kenneth Nassif, PE, CEM, CCP | Managing Director

ARCHITECT-ENGINEER QUALIFICATIONS				1. SOLICITATION NUMBER (If any) W9126G-20-R-0041		
PART II – GENERAL QUALIFICATIONS <i>(If a firm has branch offices, complete for each specific branch office seeking work)</i>						
2a. FIRM (Or Branch Office) NAME ARS Engineers, Inc.				3. YEAR ESTABLISHED 1984	4. UNIQUE ENTITY IDENTIFIER 151196813	
2b. STREET 12801 N. Central Expy., Suite 1250				5. OWNERSHIP		
2c. CITY Dallas		2d. STATE TX	2e. ZIP CODE 75243	a. TYPE Corporation		
6a. POINT OF CONTACT NAME AND TITLE Dustin D. Davison, RPLS				b. SMALL BUSINESS STATUS SBE, DBE, MBE, HUB		
6b. TELEPHONE NUMBER 214-739-3152		6c. EMAIL ADDRESS ddavison@arsengineers.com		7. NAME OF FIRM (If block 2a is a branch office)		
8. FORMER NAME(S) (If any)						8b. YEAR ESTABLISHED N/A
9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
38	Land Surveyor	2		A06	Airports; Terminals and Hangers; Freight Handling	1
60	Transportation Engineer	1		B02	Bridges	0
12	Civil Engineer	3		E02	Educational Facilities, Classrooms	1
08	CADD Technicians	4		H07	Highways, Streets, Airfield Paving, Parking Lots	0
02	Administrative	4		I06	Irrigation; Drainage	1
58	Technical / Analyst	20		L02	Land Surveying	2
				R03	Railroad; Rapid Transit	0
				S10	Surveying; Platting; Mapping; Flood Plan Studies	0
				T03	Traffic & Transportation Engineering	3
				T04	Topographic Surveying and Mapping	1
				W02	Water Resources; Hydrology; Ground Water	0
				A06	Airports; Terminals and Hangers; Freight Handling	0
Total		34				
11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS <i>(Insert revenue index number shown at right)</i>		PROFESSIONAL SERVICES REVENUE INDEX NUMBER				
a. Federal Work	3	1. Less than \$100,000 6. \$2 million to less than \$5 million				
b. Non-Federal Work	5	2. \$100,000 to less than \$250,000 7. \$5 million to less than \$10 million				
c. Total Work	5	3. \$250,000 to less than \$500,000 8. \$10 million to less than \$25 million				
		4. \$500,000 to less than \$1 million 9. \$25 million to less than \$50 million				
		5. \$1 million to less than \$2 million 10. \$50 million or greater				
12. AUTHORIZED REPRESENTATIVE <i>The foregoing is a statement of facts.</i>						
a. SIGNATURE 					b. DATE 12/21/2021	
c. NAME AND TITLE Aneil Marc Sandhu, PE / President						

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

W9126G-20-R-0041

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (or Branch Office) NAME ETTL Engineers & Consultants Inc.		3. YEAR ESTABLISHED 1965	4. UNIQUE ENTITY IDENTIFIER 052125457
2b. STREET 1717 East Erwin		5. OWNERSHIP	
2c. CITY Tyler		2d. STATE Texas	2e. ZIP CODE 75702
6a. POINT OF CONTACT NAME AND TITLE James Aldredge - Director of Marketing		a. TYPE Corporation	
6b. TELEPHONE NUMBER (903) 595-4421		b. SMALL BUSINESS STATUS SBE/WBE/HUB (State)	
6c. EMAIL ADDRESS jaldredge@ettlinc.com		7. NAME OF FIRM (If Block 2a is a Branch Office) NA	
8a. FORMER FIRM NAME(S) (If any) NA		8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER NA

9. EMPLOYEES BY DISCIPLINE

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work	4
b. Non-Federal Work	6
c. Total Work	(1)

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- | | |
|---|---|
| 1. Less than \$100,000 | 6. \$2 million to less than \$5 million |
| 2. \$100,000 to less than \$250,000 | 7. \$5 million to less than \$10 million |
| 3. \$250,000 to less than \$500,000 | 8. \$10 million to less than \$25 million |
| 4. \$500,000 to less than \$1 million | 9. \$25 million to less than \$50 million |
| 5. \$1 million to less than \$2 million | 10. \$50 million or greater |

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE

b DATE

12/29/2021

C. NAME AND TITLE

Mr. C. Brandon Quinn, PE, PG, CAPM - Vice President

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

W9126G-20-R-0041

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (or Branch Office) NAME Apex Cost Consultants, Inc. dba EudaCorp			3. YEAR ESTABLISHED 1997	4. UNIQUE ENTITY IDENTIFIER 962019159
2b. STREET 707 West Vickery Boulevard, Suite 102A			5. OWNERSHIP	
2c. CITY Fort Worth		2d. STATE TX	2e. ZIP CODE 76104	a. TYPE Corporation
6a. POINT OF CONTACT NAME AND TITLE Claude Eudaric, President			b. SMALL BUSINESS STATUS MBE, DBE, HUB (TX), SDB	
6b. TELEPHONE NUMBER 682-235-5143		6c. EMAIL ADDRESS ceudaric@eudacorp.com		7. NAME OF FIRM (If Block 2a is a Branch Office)
8a. FORMER FIRM NAME(S) (If any) Apex Cost Consultants			8b. YEAR ESTABLISHED 1997	8c. UNIQUE ENTITY IDENTIFIER 962019159

9. EMPLOYEES BY DISCIPLINE

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- | | |
|---|---|
| 1. Less than \$100,000 | 6. \$2 million to less than \$5 million |
| 2. \$100,000 to less than \$250,000 | 7. \$5 million to less than \$10 million |
| 3. \$250,000 to less than \$500,000 | 8. \$10 million to less than \$25 million |
| 4. \$500,000 to less than \$1 million | 9. \$25 million to less than \$50 million |
| 5. \$1 million to less than \$2 million | 10. \$50 million or greater |

12 AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE

b. DATE

c. NAME AND TITLE
Claude Eudaric, President

ARCHITECT-ENGINEER QUALIFICATIONS				1. SOLICITATION NUMBER (<i>If any</i>) W9126G-20-R-0041		
PART II – GENERAL QUALIFICATIONS <i>(If a firm has branch offices, complete for each specific branch office seeking work)</i>						
2a. FIRM (Or Branch Office) NAME JESCO Environmental & Geotechnical Services, Inc				3. YEAR ESTABLISHED 1994	4. UNIQUE ENTITY IDENTIFIER 948076989	
2b. STREET 1701 S. Thibodeaux Rd.				5. OWNERSHIP		
2c. CITY Jennings		2d. STATE LA	2e. ZIP CODE 70546	a. TYPE S Corporation		
6a. POINT OF CONTACT NAME AND TITLE Alvinette Teal, President				b. SMALL BUSINESS STATUS Small Business, 8(a), SDB, WOSB, EDWSB		
6b. TELEPHONE NUMBER (337) 824-9074		6c. EMAIL ADDRESS ateal@jescous.com		7. NAME OF FIRM (<i>If block 2a is a branch office</i>) N/A		
8. FORMER NAME(S) (<i>If any</i>) N/A				8b. YEAR ESTABLISHED N/A	8c. UNIQUE ENTITY IDENTIFIER N/A	
9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	5	5	C07	Coastal Engineering	2
07	Biologist	3	3	C15	Construction Management	7
08	CADD Technician	1	1	D06	Digital Orthophotography	1
11	Chemist	2	2	D08	Dredging Studies and Design	1
12	Civil Engineer	4	3	E09	EIS, Assessments or statements	3
15	Construction Inspector	5	5	E10	Environmental and Natural Resource Mapping	2
19	Ecologist	1	1	E11	Environmental Planning	3
17	Economist	1	1	E12	Environmental Remediation	5
24	Environmental Scientist	4	4	G04	GIS Services: Data Collection	2
29	GIS Specialist	1	1	H03	Hazardous, Toxic, Radioactive Waste Remediation	4
30	Geologist	3	3	H13	Hydrographic Surveying	1
36	Industrial Hygienist	1	1	P05	Planning	3
48	Project Manager	5	4	R07	Remote Sensing	1
49	Remote Sensing Specialist	1	1	R10	Risk Analysis	2
50	Risk Assessor	1	1	S05	Soils & Geologic Studies	5
58	Technician	11	10	S10	Surveying: Platting: Mapping: Flood Plain Studies	2
				W02	Water Resources; Hydrology, GW	3
				W02	Water Supply: Treatment and Distribution	2
Total		49	47			
11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS <i>(Insert revenue index number shown at right)</i>		PROFESSIONAL SERVICES REVENUE INDEX NUMBER				
a. Federal Work	6	1. Less than \$100,000 6. \$2 million to less than \$5 million				
b. Non-Federal Work	7	2. \$100,000 to less than \$250,000 7. \$5 million to less than \$10 million				
c. Total Work	8	3. \$250,000 to less than \$500,000 8. \$10 million to less than \$25 million				
		4. \$500,000 to less than \$1 million 9. \$25 million to less than \$50 million				
		5. \$1 million to less than \$2 million 10. \$50 million or greater				
12. AUTHORIZED REPRESENTATIVE <i>The foregoing is a statement of facts.</i>						
a. SIGNATURE					b. DATE	12/17/2021
c. NAME AND TITLE	Alvinette Teal, P.G. President					

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

W9126G-20-R-0041

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (or Branch Office) NAME The Rios Group, Inc.			3. YEAR ESTABLISHED 2012	4. UNIQUE ENTITY IDENTIFIER + 078570979
2b. STREET 7400 Sand Street			5. OWNERSHIP	
2c. CITY Fort Worth		2d. STATE TX	2e. ZIP CODE 76118	a. TYPE Corporate, S Type
6a. POINT OF CONTACT NAME AND TITLE Tim Habenicht, PE - Fort Worth Branch Manager			b. SMALL BUSINESS STATUS 541330	
6b. TELEPHONE NUMBER 817.345.7500		6c. EMAIL ADDRESS thabenicht@rios-group.com		
8a. FORMER FIRM NAME(S) (If any)			8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE

**10. PROFILE OF FIRM'S EXPERIENCE
AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS**

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work	4+
b. Non-Federal Work	8+
c. Total Work	8+

- | | |
|---|---|
| 1. Less than \$100,000 | 6. \$2 million to less than \$5 million |
| 2. \$100,000 to less than \$250,000 | 7. \$5 million to less than \$10 million |
| 3. \$250,000 to less than \$500,000 | 8. \$10 million to less than \$25 million |
| 4. \$500,000 to less than \$1 million | 9. \$25 million to less than \$50 million |
| 5. \$1 million to less than \$2 million | 10. \$50 million or greater |

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE

Rosa hairy

c. NAME AND TITLE

Rosa Navejar, President

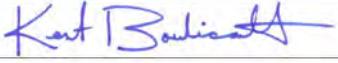
b. DATE

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any)
W9126G-20-R-0041

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME Singhofen & Associates, Inc.				3. YEAR ESTABLISHED 1983	4. UNIQUE ENTITY IDENTIFIER 783377690	
				5. OWNERSHIP		
2b. STREET 11723 Orpington Street, Suite 100				a. TYPE Corporation		
2c. CITY Orlando		2d. STATE FL	2e. ZIP CODE 32817	b. SMALL BUSINESS STATUS HUBZone		
6a. POINT OF CONTACT NAME AND TITLE Kent J. Bouliault, PE, Vice President				7. NAME OF FIRM (If block 2a is a branch office) Singhofen & Associates, Inc.		
6b. TELEPHONE NUMBER 407.679.3001		6c. E-MAIL ADDRESS KJB@SAIENGINEERS.COM				
8a. FORMER FIRM NAME(S) (If any)				8b. YR. ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER	
9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	4		B02	Bridges	2
06	Architect	1		C15	Construction Management	3
08	CADD Technician	8		C18	Cost Estimating; Cost Engineering and Analysis; Parametric Costing; Forecasting	2
12	Civil Engineer	12		D02	Dams (Earth, Rock); Dikes; Levees	3
14	Computer Programmer	1		D05	Digital Elevation and Terrain Model Development	2
15	Construction Inspector	1				
25	Fire Protection Engineer	1				
29	Geographic Information System Specialist	3		G04	Geographic Information System Services: Development, Analysis, and Data Collection	4
32	Hydraulic Engineer	1		G05	Geospatial Data Conversion: Scanning, Digitizing, Compilation, Attributing, Scribing, Drafting	3
34	Hydrologist	1				
42	Mechanical Engineer	1				
47	Planner: Urban/Regional	1		H07	Highways; Streets; Airfield Paving; Parking Lots	3
51	Safety/Occupational Health Eng	1				
57	Structural Engineer	1		H12	Hydraulics & Pneumatics	6
				I06	Irrigation; Drainage	6
				P05	Planning (Community, Regional, Areawide and State)	5
				P06	Planning (Site, Installation, and Project)	4
				R04	Recreation Facilities (Parks, Marinas, Etc.)	1
				R11	Rivers; Canals; Waterways; Flood Control	6
				S10	Surveying; Platting; Mapping; Flood Plain Studies	4
				S13	Stormwater Handling & Facilities	6
				W02	Water Resources; Hydrology; Ground Water	6
	Other Employees			W03	Water Supply; Treatment and Distribution	2
	Total	37				
11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS <i>(Insert revenue index number shown at right)</i>				PROFESSIONAL SERVICES REVENUE INDEX NUMBER		
a. Federal Work	4	1. Less than \$100,000 2. \$100,00 to less than \$250,000 3. \$250,000 to less than \$500,000 4. \$500,000 to less than \$1 million 5. \$1 million to less than \$2 million				6. \$2 million to less than \$5 million 7. \$5 million to less than \$10 million 8. \$10 million to less than \$25 million 9. \$25 million to less than \$50 million 10. \$50 million or greater
b. Non-Federal Work	6					
c. Total Work	6					
12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.						
a. SIGNATURE					b. DATE	12/17/2021
c. NAME AND TITLE	Kent J. Bouliault, PE, Vice President					

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (*If any*)

W9126G-20-R-0041

PART II - GENERAL QUALIFICATIONS

(*If a firm has branch offices, complete for each specific branch office seeking work.*)

2a. FIRM (or Branch Office) NAME Terrane Engineering Corporation	3. YEAR ESTABLISHED 1991	4. UNIQUE ENTITY IDENTIFIER 556047512
2b. STREET 507 E. Boston Cr.	5. OWNERSHIP	
2c. CITY Chandler	2d. STATE AZ	2e. ZIP CODE 85225
6a. POINT OF CONTACT NAME AND TITLE Frank Costello, P.E.	a. TYPE Corporation	
6b. TELEPHONE NUMBER (480) 894-1207	b. SMALL BUSINESS STATUS 541330	
6c. E-MAIL ADDRESS paco@terrane-eng.com	7. NAME OF FIRM (<i>If Block 2a is a Branch Office</i>)	
8a. FORMER FIRM NAME(S) (<i>If any</i>)	8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. Number of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (<i>see below</i>)
		(1) FIRM	(2) BRANCH			
02	Administration	1		A06	Airports; Terminals and Hangars	1
27	Geotechnical Engineer	1		C10	Commercial Building	1
58	Technician	1		C11	Community Facilities	1
				D02	Dams; Dikes; Levees	1
				D07	Dining Halls; Clubs; Restaurants	1
				E02	Educational Facilities; Classrooms	1
				E09	Environmental Impact Studies	1
				E13	Environmental Testing & Analysis	1
				F02	Field Houses; Gyms; Stadiums	1
				F05	Forensic Engineering	1
				H07	Highways; Streets; Airfield Paving	4
				H10	Hotels; Motels	1
				H11	Housing (Residential, Condos)	1
				I01	Industrial Buildings	1
				M06	Mining & Mineralogy	1
				O01	Office Buildings; Industrial Parks	1
				P02	Petroleum & Fuel (Storage)	1
				R11	Rivers; Canals; Waterways	1
				S04	Sewage Treatment & Disposal	1
				S09	Structural Design; Special Structure	1
	Other Employees			W01	Warehouse & Depots	1
	Total	3		W03	Water Supply; Treatment	1

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(*Insert revenue index number shown at right*)

a. Federal Work	4
b. Non-Federal Work	3
c. Total Work	4

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than \$100,000
2. \$100,000 to less than \$250,000
3. \$250,000 to less than \$500,000
4. \$500,000 to less than \$1 million
5. \$1 million to less than \$2 million
6. \$2 million to less than \$5 million
7. \$5 million to less than \$10 million
8. \$10 million to less than \$25 million
9. \$25 million to less than \$50 million
10. \$50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

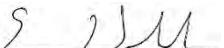
a. SIGNATURE

b. DATE

12/14/2021

c. NAME AND TITLE

Frank Costello, P.E.

ARCHITECT-ENGINEER QUALIFICATIONS				1. SOLICITATION NUMBER (If any) W9126G-20-R-0099		
PART II – GENERAL QUALIFICATIONS <i>(If a firm has branch offices, complete for each specific branch office seeking work)</i>						
2a. FIRM (Or Branch Office) NAME Vernadero Group Incorporated				3. YEAR ESTABLISHED 1999	4. UNIQUE ENTITY IDENTIFIER 114054054	
2b. STREET 3400 S. Carrollton Ave, #850752				5. OWNERSHIP		
2c. CITY New Orleans		2d. STATE LA	2e. ZIP CODE 70185	a. TYPE Corporation		
6a. POINT OF CONTACT NAME AND TITLE Eric Webb, President				b. SMALL BUSINESS STATUS Veteran-Owned Small Business		
6b. TELEPHONE NUMBER (866) 708-7640		6c. EMAIL ADDRESS ewebb@vernadero.com		7. NAME OF FIRM (If block 2a is a branch office) Vernadero Group Incorporated		
8. FORMER NAME(S) (If any)				8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER	
9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	2		C14	Conservation & Res Mngmt	4
06	Biologist	5	1	C15	Construction Management	5
07	Architect	1		E01	Ecological & Arch Investigations	4
16	Construction Manager	3		E07	Energy Conservation	1
19	Ecologist	2		E09	Environmental Impact Studies, Assessments or Statements	5
29	Geographic Information System	2		E10	Environmental & NR Mapping	2
47	Planner: Urban/Regional	4		E11	Environmental Planning	5
48	Project Manager	7	2	E12		1
				E13	Environmental Testing & Analysis	1
				G04	GIS Services: Development, Analysis & Data Collection	2
				H03	HTRW Remediation	2
				H07	Highways; Streets; Parking Lots	4
				H08	Historical Preservation	1
				P06	Planning	3
Total		26	3	W02	Water Res; Hydrology	1
11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS <i>(Insert revenue index number shown at right)</i>		PROFESSIONAL SERVICES REVENUE INDEX NUMBER				
a. Federal Work	8	1. Less than \$100,000 6. \$2 million to less than \$5 million				
b. Non-Federal Work	1	2. \$100,000 to less than \$250,000 7. \$5 million to less than \$10 million				
c. Total Work	8	3. \$250,000 to less than \$500,000 8. \$10 million to less than \$25 million				
		4. \$500,000 to less than \$1 million 9. \$25 million to less than \$50 million				
		5. \$1 million to less than \$2 million 10. \$50 million or greater				
12. AUTHORIZED REPRESENTATIVE <i>The foregoing is a statement of facts.</i>						
a. SIGNATURE 					b. DATE 20 December 2021	
c. NAME AND TITLE Eric Webb, President						



APPENDIX

JV AGREEMENT

All Small Mentor-Protégé Program

Mentor-Protégé Agreement Template

Between

Huitt-Zollars, Inc.

and

MSMM Engineering, LLC

This Mentor/Protégé Agreement (“Agreement”) is between **Huitt-Zollars, Inc.** (proposed Mentor), a Texas corporation with its principal place of business at **1717 McKinney Avenue, Suite 1400, Dallas, Texas 75202**, and **MSMM Engineering, LLC** (Proposed Protégé), a Louisiana S-Corporation with its principal place of business at **4640 S. Carrollton Ave. Suite 210, New Orleans, LA 70119** (collectively referred to as the “Parties”).

WHEREAS, **MSMM Engineering, LLC** (proposed Protégé) is a **Small Disadvantaged Business in state/local markets and Small Business in federal markets providing services under NAICS codes 541330 Engineering Services, in geographic areas served by Louisiana, Texas and Mississippi**. **MSMM Engineering, LLC** is a multidisciplinary engineering firm specializing in complete assessment, evaluation, disaster recovery, construction management, inspection and design of flood protection, drainage, water/wastewater, navigation and civil works projects. **MSMM** has a team of engineers with extensive project management and problem resolution expertise. **MSMM** currently holds Federal Prime contracts with USACE Fort Worth and New Orleans Districts.

WHEREAS, **Huitt-Zollars, Inc.** (proposed Mentor) is a corporation with a history of providing diversified services in Civil, Structural, Mechanical, Electrical, Plumbing and Fire Protection Engineering; Architecture; Interior Design; Landscape Architecture; and Land Surveying and Construction Phase Services. In its 40th year of business, **Huitt-Zollars, Inc.** is a full-service architect and engineering firm with broad DoD, DHS and IBWC experience. **Huitt-Zollars, Inc.** has broad DoD and DHS experience with major agencies including USACE, AFCEC, NAVFAC, Coast Guard, DHS/CBP, GSA, and Veterans Administration. As an example, **Huitt-Zollars, Inc.** has had success with USACE and the Department of the Army as part of the Land Development Engineer for the \$4.8B Fort Bliss Expansion Program from 2006 to 2014, completing over 250 task orders for the Fort Worth District. **Huitt-Zollars** provided design services for the Fort Bliss program, one of the largest horizontal design and construction programs in USACE history, for nearly \$1B of infrastructure and provided design build RFPs for over 300 buildings.

WHEREAS, the Parties wish to formalize a mentor-protégé relationship between **MSMM Engineering, LLC** (proposed Protégé) and **Huitt-Zollars, Inc.** (proposed Mentor) under the

U.S. Small Business Administration's ("SBA") Mentor/Protégé Program established pursuant to 13 C.F.R. §125.9;

WHEREAS, the Parties agree that establishing a mentor-protégé relationship will enhance the capabilities of the Protégé, assist the Protégé meeting the goals established in its business plan, and improve the Protégé's ability to successfully compete for contracts;

WHEREAS, the Mentor is qualified to provide the material benefits, developmental gains, and agreed-upon assistance within the context of the SBA All Small Mentor-Protégé Program; and the Mentor will provide such assistance as detailed below for the Term of this Agreement per 13 C.F.R. § 125.9(e);

WHEREAS, the Parties have established a single point of contact within both organizations who will be responsible for managing and implementing the Agreement;

WHEREAS, the Parties will identify how the assistance to be provided differs from any assistance being provided under another Mentor-Protégé relationship outside of SBA (if applicable);

WHEREAS, the Parties have agreed that each may terminate the agreement with 30 days' advance notice to the other party, and to the SBA;

WHEREAS, the Parties have included a statement specifying that any changes to the Agreement must be made in writing, and be approved in advance by the SBA;

THEREFORE, consistent with the Parties' goals and the requirements of the SBA All Small Mentor-Protégé Program, the Parties agree to the following:

1. **MSMM Engineering, LLC's Assistance.** As a growing small business that has created a good reputation with several USACE districts, the need to continue growth to additional agencies and markets would be advanced by the assistance of a strategic partner in our industry that shares our same core values and commitment to client service. Below is a summary of the needs identified to accomplish the objectives in our business plan and long-term growth goals:

a. **Management and Technical Assistance:**

- Applying for and being eligible for SBA programs such as the All-Small Mentor-Protégé Program
- Developing a long-term strategic plan to incorporate goals, strategies, and tactics.
- Development of our annual business plan, inclusive of outlining realistic goals, clients and growth strategies.
- Evaluate management/accounting systems capabilities and make recommendations for implementation of business plan and SBA reporting
- Establishing processes to support vision/strategic plan in the technical areas of quality management and Project Management Policies and Procedures, especially in areas

- such as best practices for quality control, communications methods, cost control, and schedule control.
- Evaluation of existing capabilities and identifying gaps in current administrative support activities such as financial and accounting, accounts payable and receivable, specifically with anticipated increase in requirements connected to managing future joint venture activities
 - Establishing improved process for invoicing, contract administration, administration of joint-venture and sub-consultant agreements
 - Providing methodologies for staffing projections and developing recruiting processes for future growth and additional personnel and locations.
 - Develop repeatable best practices and standard operating procedures for production technology (drafting, CADD, Civil 3D, etc.)
 - Instituting project resourcing techniques to facilitate work scheduling and predicting staffing for multiple, simultaneous assignments

We will measure success of the Mentor Protégé relationship and the JV has on these goals through the following metrics:

- One-time events—To be measured by if the meetings/documentation occurred and to be documented by meeting minutes and documentation developed following the meeting.
- Quantifiable, but not numerical (\$), categories to be measured in terms of the goal itself, such as number of wins with new agencies targeted, number of joint client calls made, number of active pursuits identified, number of proposals/SF330's submitted, number of new commissions secured. All to be reported in a cumulative document that tracks JV activity when it comes to new business pursuits.
- Numerical (\$) categories such as sales, revenue, profit to be measured against business plan goals, for the JV and for the Protégé firm individually. Business goals as outlined in the Protégé business plan include an increase in sales goals from \$7M to \$15M (net), increase in net revenue from \$5M to \$9M and in increase in new profitability percentage from 11% to 15%.

b. Contracting Assistance:

- Contract review and negotiation of any new contracts won by the JV.
- Review of contracts won by the Protégé firm individually as needed.
- Preparing and reviewing prime and sub-consultant contracts and negotiation, defining of scope and costs/fees assigned to sub-consultants.
- Establishing necessary work processes for responding evaluating task order assignments and preparing fee proposal on Indefinite Delivery Contracts awarded, including the evaluation of scopes of works for participants, resourcing of teams, developing management plans, etc.
- Creating strategies for fee negotiation of task orders and understanding of the level of effort by discipline to meet the Federal scope.
- Establishment of procedures for development of labor rates and associated

- experience/skill requirements to defend rates when negotiating IDIQ contracts and task orders.
- Preparing fee proposals with the appropriate detail and determining level of effort, required disciplines, and proper format, development of assumptions and lessons learned from previous experiences to meet Federal FARs or DFARs limitations.

We will measure success the Mentor-Protégé relationship and the JV has on these goals through the following metrics:

- Currently we spend on average, 160 hours preparing fee proposals and negotiating task orders. With the assistance of the mentor and their ability/experience in negotiating, we expect a reduction in time spent negotiating (60 hours per task order) by reducing the back and forth and required resubmittals of fee proposals.
- Creation of a consistent template that satisfies the level of detail expected by the Federal clients that can be easily and repeatable used for every fee proposal on a single IDIQ contract.
- Quality of product produced is impacted from the start of the project in understanding scope, required disciplines and schedule. Mentor assistance in task order negotiation will have an impact on CPARS ratings. Measure success of negotiations through an expected increase in CPARS ratings. Particularly important after the first year of the JV Agreement will be the increase in posting of CPARS ratings in the Protégé firm's name as prime, which can be used for past performance in future pursuits.

c. Business Development Assistance:

- Preparation of formal business development policies and procedures including the evaluation of federal solicitation services/Fedbizzopps (e.g., "go/no go" decision tracking)
- Development of a strategic, federal-focused business plan with agencies identified, target contacts, relevant conferences, annual sales dollar goals per agency, and consistent call program with responsible party
- Developing a call and data capture program and to support business development plan
- Require assistance for recommendations as to tracking systems to monitor and report on progress against plan as well as tracking of upcoming opportunities to ensure adequate resources are available to perform the marketing efforts.
- Review and recommend/assist with enhancements to collateral materials (e.g., brochures, website, social media, etc.)
- Participation in sales training in connection with improvement of techniques, software and technology used for the development of proposals/SF330's and client presentations
- Development of a library/catalog of projects using the latest technology for the ability to use a key-word search to quickly tailor write-ups for future proposals.

We will measure success of the Mentor Protégé relationship and the JV has on these goals through the following metrics:

- Our current proposal success rate is around 10-20%, and we generally pursue 5-6 large contracts each year and win 1. New goal is 20-30% while pursuing 2-3X the amount of contracts with the mentor.
- We estimate \$2-4M in additional net revenue per year, which would meet the goals outlined in our business plan.
- Post award of new contracts, increase in number of CPARS rating and other past performance review information of the JV and the Protégé firm will be used as a measurement of success.

For each of the assessed needs addressed in the paragraph above, the Protégé must describe in detail: **WHAT** specifically will the mentor do to meet your need, **WHEN** (detailed timelines or number of hours in annual increments) the assistance will be provided, and **HOW** you will measure whether each of your needs have been successfully met, in accordance with your business plan, as per 13 C.F.R. §125.9.

2. **Huitt-Zollars, Inc.** agrees to assist **MSMM Engineering, LLC** to fully develop the assessed needs as described in Paragraph 1 above pursuant to 13 C.F.R. § 125.9(e)(i)-(ii).

A. Management and Technical Assistance

1. Assistance the Mentor will provide:

- Assist with the application to SBA to be qualified as Protégé firm
- Develop long term strategic plan to incorporate Mentor-Protégé goals, strategies, tactics as a JV team over a planning horizon of 3-6 years by identifying specific target pursuits, agencies and contracts that match our collective strong suits
- Development of an annual business plan for the JV; assistance with updating the current MSMM business plan based on the updated goals of the Protégé and the target pursuits.
- Evaluation of the management/accounting systems capabilities and make recommendations for implementation of business plan and SBA reporting. Provide sample management standard operating procedures.
- Formulate processes to support vision/strategic plan in the technical areas of quality management program and Project Management Policies and Procedures, especially in areas such as best practices for quality control, communications systems, cost control, and schedule control. Provide samples of quality plans and program management plans. Assist with development of these plans for overall JV management and contract specific opportunities.
- Evaluate existing capabilities and identify gaps in current administrative support activities such as financial and accounting, accounts payable and receivable, with needs anticipated in connection with JV activities. Provide administrative support as needed to ensure JV and Protégé success by assisting with invoicing, contract administration, administration of JVA and sub-consultant agreements
- Assist with establishing methodologies for staffing projections and help with developing recruiting processes for new contacts and additional personnel. Provide

- HR contacts for specific recruiting ideas, guidance on recruiting tools and review of personnel advertisements.
- Assist in developing best practices in connection with production technology (drafting, CADD, Civil 3D, etc.) and project resourcing techniques to facilitate contract scheduling and task order staffing for multiple, simultaneous assignments. Share internal CADD standards and other project management tools for adoption to Protégés business practices.

2. Timeline (i.e. weekly, bi-weekly, monthly, quarterly, etc.)

- One-time—
 1. Develop QA/QC manuals and project management procedures for JV and Protégé firm use (estimated hours: 80 hours)
 2. Develop overall strategic plan for the JV (estimated hours: 80 hours)
 3. Report on best management/reporting and accounting practices (estimated hours: 40 hours)
 4. Establish metrics for success in implementation of the goals and strategies of the JV and their impact on the Protégé firm's business plan (estimated hours: 40 hours)
- Annually—
 1. Annual audit of performance results of the JV (estimated hours: 40 hours)
 2. New business plan and update of strategic plan for JV as appropriate (estimated hours: 80 hours)
 3. Business Meeting of JV representatives to discuss annual goals/business opportunities and strategically align for new opportunities (estimated hours: 80 hours)
 4. HR assistance with personnel recruiting or advertising positions (estimated hours: 40 hours)
- Quarterly—
 1. Review of progress toward annual goals; business meeting of JV representatives (estimated hours: 40 hours)
- Monthly—
 1. Assist with financial and business development progress reports (estimated hours: 20 hours)

B. Contracting assistance.

1. Assistance the Mentor will provide:

- Assist with contract review and negotiation of any new contracts won by the JV
- Assist with other contract questions concerning individual Protégé firm awards as needed and explain contract terms and conditions that affect business actions
- Assist with both prime and sub-consultant contract review and negotiation, especially with the definition of scope and costs/fees assigned to sub-consultants. Provide standard subcontract and terms and conditions.
- Assist with the establishment of work processes necessary for responding for discrete task order assignments on Indefinite Delivery Contracts awarded to the JV

or to the Protégé firm individually, including the evaluation of scopes of works for participants, resourcing of teams, developing management plans, etc. Provide examples of project management tools such as IDIQ task order tracking and pricing tools.

- Assist with the negotiation of task orders and determination of the level of effort by discipline to meet the Federal scope. Help Protégé understand the limits as defined in FARs and DFARs related to fee limitations and profit.
- Assist with the development of appropriate labor rates associated with experience and skill level of multiple disciplines when negotiating contracts. Provide examples of rate workbooks and evaluate Protégé's current rate structures.
- Assist and train in the ability to properly determine level of effort, required disciplines, proper format, development of assumptions and lessons learned from previous experiences for the development and submission of fee estimates for task orders. Provide sample fee proposal workbooks that can be used on all IDIQs with multiple year rates. Help modify and customize workbooks for Protégé's and JVs use.

2. Timeline (i.e. weekly, bi-weekly, monthly, quarterly, etc.)

- One-time—
 1. Assistance with the establishment of work processes to plan, schedule, resource, and staff contracts/task orders, including ability to determine level of effort, required disciplines, proper format, development of assumptions and lessons learned from previous experience (160 hours)
- Per Event—
 1. Assistance with contract review and negotiation of new contracts (estimated hours per each new contract: 40 hours)
 2. Assistance with the negotiation of task orders and determination of the level of effort (estimated per each new task order basis: 25 hours)
- Annual—
 1. Assistance with the development of appropriate labor rates associated with experience and skill level of multiple disciplines when negotiating contracts and assist with creating blended Mentor and Protégé rates for Joint Venture pursuits. (to occur annually near the beginning of the year: 80 hours).

C. Business Development Assistance

1. Assistance the Mentor Will Provide:

- Assist with the installation of formal business development policies and procedures including the evaluation of clipping services/Fedbizzopps (e.g., “go/no go” decision tracking). Provide business development standard procedures currently being used for adoption and customization for Protégé.
- Develop business plan with markets identified, target agencies (and relevant conferences) listed, annual sales dollar goals, call program with responsible party. Share relationships with identified clients and perform joint calls to agencies to

present qualifications. Assist with networking and connecting Protégé with future clients.

- Develop call program to support business development plan. Provide examples of call reports and opportunity tracking.
- Make recommendations as to tracking systems to monitor and report on progress against plan. Provide samples of tracking workbooks that capture future opportunities. Share data on upcoming potential pursuits and develop tracking strategies.
- Review and make recommendations as to enhance collateral materials (e.g., brochures, website, social media, etc.). Assist with new collateral as needed. Develop collateral for JV including logos, brochures, etc.
- Conduct sales training in connection with improvement of techniques used for the development of proposals/SF330's and client presentations.
- Assist with developing a library/catalog of projects using the latest available technology for the ability to use a key-word search to quickly tailor write-ups for future proposals. Provide examples of project and marketing templates.

2. Timeline(i.e. weekly, bi-weekly, monthly, quarterly, etc.)

- One-time—
 1. Development of collateral materials to promote both the Protégé firm's and the JV's qualifications (120 hours)
 2. Front end activities such as development of formal business development standard operating procedures and policies and the development of technology and catalogs for the ability to quickly respond to opportunities (120 hours)
 - Per Event—
 1. For specific business development pursuits and contract opportunities, assistance will be on a per solicitation basis (80 hours per solicitation)
3. *Preparation of Mentor-Protégé Reports.* The Mentor shall use its reasonable and best efforts to assist the Protégé in preparation of the annual mentor/protégé report required by the SBA pursuant to 13 C.F.R. §125.9(g), and shall provide all required documentation.
4. *Terms of the Agreement.* Approved All Small Mentor-Protégé Agreements are considered active for a period of three (3) years and may be extended an additional three (3) years or until rescinded in writing.
5. *Mentor's Failure to Provide Mutually Agreed-Upon Assistance.* Pursuant to 13 C.F.R. 125.9(h), should the Mentor breach this Mentor-Protégé Agreement to provide mutually agreed-upon assistance to the Protégé, the Mentor understands that, after affording the Mentor an opportunity to respond to allegations of noncompliance, SBA may take one or more of the following actions:
- a. SBA may terminate the Mentor-Protégé Agreement;
 - b. SBA may find the Mentor ineligible to participate in SBA's
 - i. Mentor-Protégé Program for two (2) years;

- c. SBA may recommend a stop work order for each contract the Mentor and Protégé are performing as a joint venture pursuant to 13 C.F.R. § 125.9(h)(iii);
 - d. If the Protégé is able to independently complete performance of any such contracts being performed by the Mentor and Protégé as a joint venture pursuant to 13 C.F.R. § 125.9(h)(iii), SBA may authorize substitution of the Protégé firm for the joint venture; and,
 - e. SBA's Suspension and Debarment Official may pursue Government-wide suspension or debarment of the Mentor.
6. *Termination Clause.* This Agreement may be terminated as follows:
- a. Voluntary Termination by the Mentor. The Mentor may voluntarily terminate this Agreement if the Mentor no longer wishes to participate in the Mentor-Protégé Program as a Mentor. The Mentor shall notify the Protégé and the SBA in writing at least 30 days prior to the termination date.
 - b. Termination by the SBA. SBA may decide to terminate this Agreement at any time if it determines that the Mentor or Protégé is not properly fulfilling its obligations under the Agreement. SBA may also decide not to approve continuation of the Agreement if it finds that the Mentor has not provided the assistance set forth in the Agreement or that the assistance has not resulted in any material benefit or developmental gains to the Protégé.
 - c. Voluntary Termination by the Protégé. The Protégé may voluntarily terminate this Agreement if the Protégé no longer wishes to participate in the Mentor-Protégé Program as a Protégé. The Protégé shall notify the Mentor and the SBA in writing at least 30 days prior to the termination date.
 - d. Other Termination Conditions. Termination of the Agreement does not impact contractual agreements undertaken during the active stages of the Mentor-Protégé relationship. Therefore, contractual obligations must be satisfied in accordance with terms and conditions set forth in the contract.
7. *Effect of Termination.* Termination of this Agreement shall not impair the obligations of the Mentor to perform its contractual obligations pursuant to government prime contracts being performed with the Protégé. Likewise, termination of this Agreement shall not impair the obligations of the Protégé to perform its contractual obligations under any current contract or subcontracts between the Mentor and Protégé.
8. *Modifications.* SBA must approve all changes to this Agreement in advance.
9. *Notices and Points of Contact for SBA Program Administration.* The following individuals shall serve as the points of contact for administration of the Agreement and as such are authorized to receive all notices under this Agreement.

<u>Huitt-Zollars, Inc. (Mentor)</u>	<u>MSMM Engineering, LLC (Protégé)</u>
Monica Kent, PE	Manish Mardia, PE
Sr. Vice President	President
1717 McKinney, Suite 1400	4640 South Carrollton Ave, Suite 220
Dallas, TX 75202	New Orleans, LA 70119

214-871-3311
mkent@huitt-zollars.com

504-570-6098
mmardia@msmmeng.com

SBA Representative
The All Small Mentor-Protégé Team
U.S. Small Business Administration/HQ
409 3rd Street S.W.
Washington, DC 20416
Email: Allsmallmpp@sba.gov

10. *Status of the Parties.* This Agreement, in and of itself, does not constitute, create or give effect to or otherwise establish a joint venture agreement, partnership, or any other business or organization. Unless provided by the terms of another agreement consistent with the governing regulations, the Parties are and shall remain independent contractors.

11. *Integrated Document.* This Agreement supersedes any and all previous understandings, commitments, or agreements, oral or written, pertaining to the All Small SBA Mentor-Protégé Agreement.

12. *Other Provisions not Previously Discussed in the Agreement (if applicable):*

- a. Protégé does () does not () have another SBA approved Mentor-Protégé Agreement.
- b. Protégé is () is not () participating in any other formal Mentor-Protégé Programs governed by other agencies.
- c. Mentor does () does not () have another SBA approved Mentor-Protégé Agreement.
- d. Mentor is () is not () participating in any other formal Mentor-Protégé Programs governed by other agencies.

Mentor shall annually certify that it continues to possess good character and a favorable financial position, if the Agreement is extended.

Huitt-Zollars, Inc.; a Texas Corporation; certifies it possess good character and is in favorable financial position to enter into this Mentor-Protégé Agreement.

Subject to the approval of the U.S. Small Business Administration's Director, All Small Mentor-Protégé Program, this Agreement is entered into and effective as of the date of such approval. The Agreement is officially signed and executed by officials duly authorized to bind the named corporations this **10th day of April 2019**.

Monica Kent

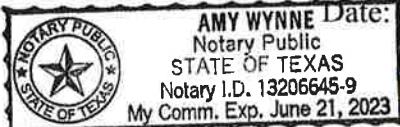
Manish Mardia

Signatory, Huitt-Zollars, Inc. (Mentor)
Monica Kent, Sr. Vice President

Date: April 10, 2019

Signatory, MSMM Engineering, LLC (Protégé)
Manish Mardia, President

Date: April 10, 2019



Amy Wynne

MHZ JV

1501 LBJ FREEWAY, SUITE 650, DALLAS, TX 75234