US FISH & WILDLIFE SERVICE

MATOC IDIQ CONTRACTS FOR A&E SERVICES FOR THE CONTINENTAL US AND HAWAII IN ANY STATE OR US TERRITORY FOR THE DEPARTMENT OF INTERIOR

MHZ JV

A SMALL BUSINESS MENTOR PROTÉGÉ JOINT VENTURE

SUBMITTED TO

US Fish & Wildlife Service

SOLICITATION NUMBER

140F0521R0003

JULY 9, 2021

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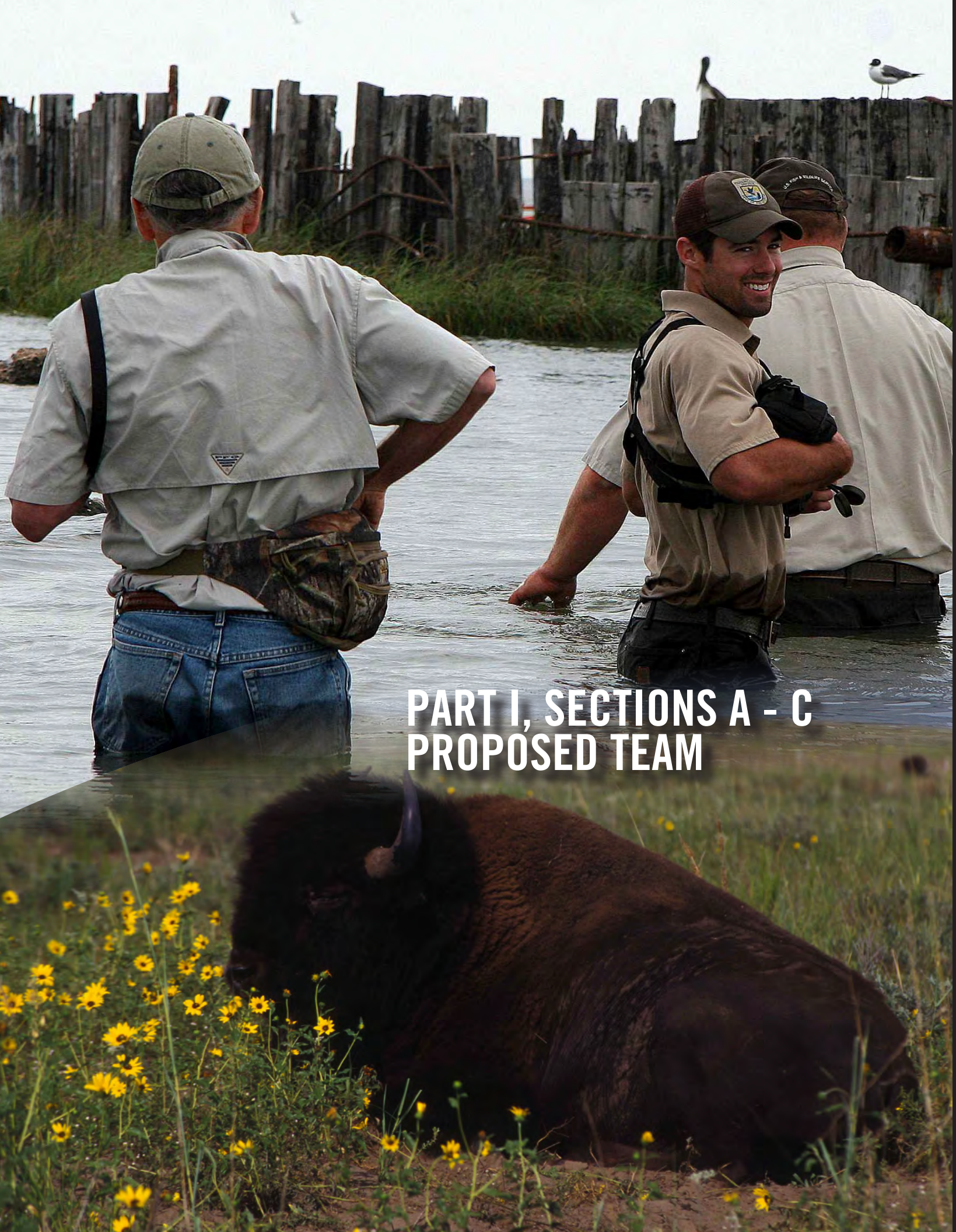


PART I, SECTIONS A - C
PROPOSED TEAM

ARCHITECT - ENGINEER QUALIFICATIONS

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

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

MATOC IDIQ Contracts for A&E Services for the Continental US and Hawaii in any State or US Territory for the Department of Interior

2. PUBLIC NOTICE DATE	3. SOLICITATION OR PROJECT NUMBER
May 12, 2021	140F0521R0003

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Manish Mardia, PE – Project Manager

5. NAME OF FIRM

MSMM Huitt-Zollars A Joint Venture

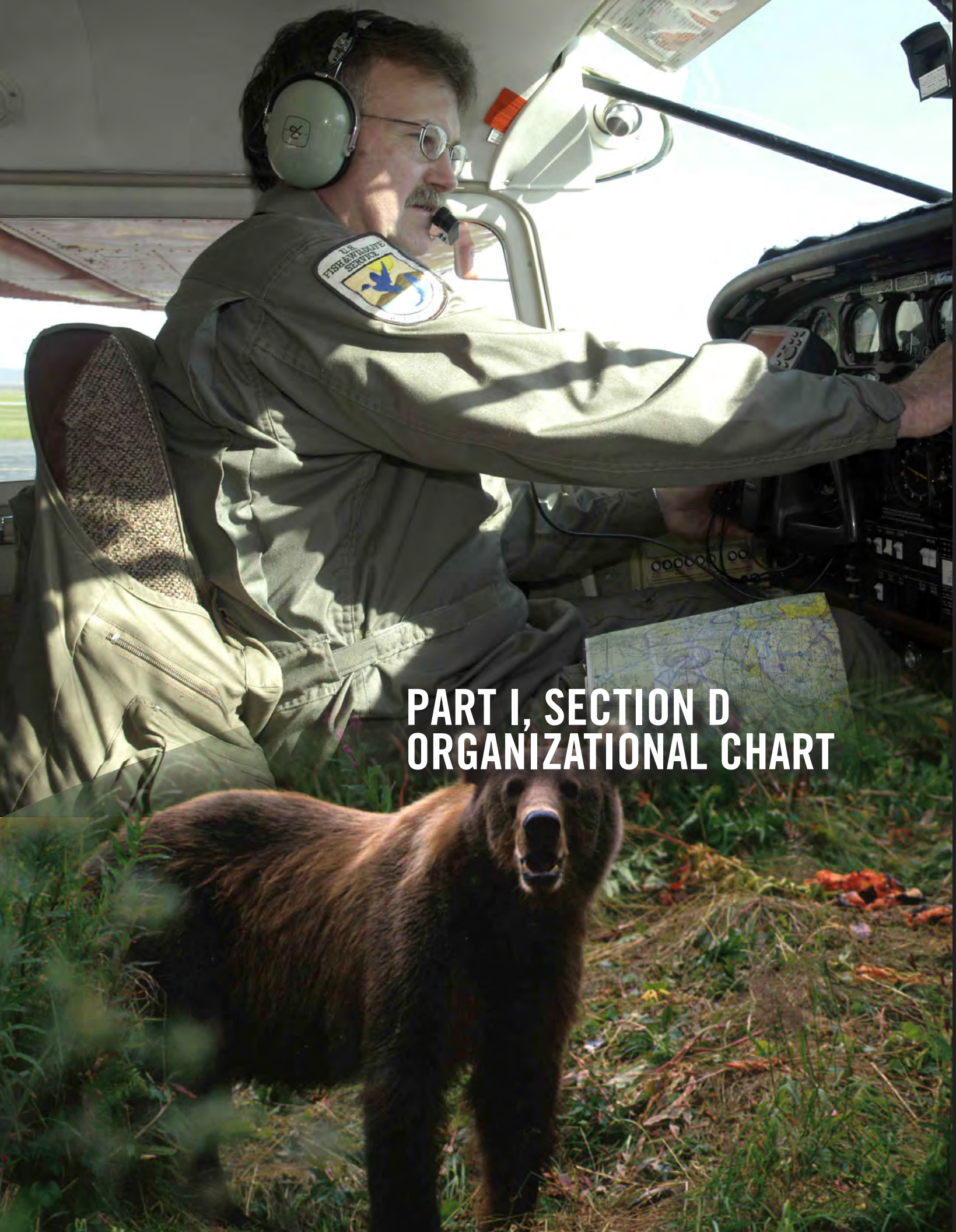
6. TELEPHONE NUMBER	7. FAX NUMBER	8. EMAIL ADDRESS
504-559-1897	N/A	mmardia@msmmeng.com

C. PROPOSED TEAM

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

	(Check) PRIME	J-V PARTNER	SUBCONTRACTOR	9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
a.	X			MSMM Huitt-Zollars A Joint Venture DUNS #117073814 ☐ CHECK IF BRANCH OFFICE	4640 Carrollton Avenue Suite 220 New Orleans, LA 70119	Project Management, Task Order Management, Architecture, Civil Engineering, Mechanical Engineering, Electrical Engineering, Structural Engineering, Hydrology, Cost Estimating, Landscape Architecture, Value Engineering, Seismic Engineering, Cultural Resources Management
b.		X		MSMM Engineering, LLC DUNS #969989370 ☐ CHECK IF BRANCH OFFICE	4640 Carrollton Avenue Suite 220 New Orleans, LA 70119	
c.		X		MSMM Engineering, LLC DUNS #071392535 ☒ CHECK IF BRANCH OFFICE	13850 Gulf Freeway Suite 202A Houston, TX 77034	
d.		X		Huitt-Zollars, Inc. DUNS #080747660 ☐ CHECK IF BRANCH OFFICE	1717 McKinney Avenue Suite 1400 Dallas, TX 75202	
e.		X		Huitt-Zollars, Inc. DUNS #156399560 ☒ CHECK IF BRANCH OFFICE	500 W. 7th Street Suite 300 Fort Worth, TX 76102	
f.		X		Huitt-Zollars, Inc. DUNS #879473999 ☒ CHECK IF BRANCH OFFICE	10350 Richmond Ave Suite 300 Houston, TX 77042	
g.		X		Huitt-Zollars, Inc. DUNS #969626654 ☒ CHECK IF BRANCH OFFICE	6501 Americas Parkway NE Suite 830 Albuquerque, NM 87110	
h		X		Huitt-Zollars, Inc. DUNS #177865016 ☒ CHECK IF BRANCH OFFICE	818 Stewart Street Suite 1120 Seattle, WA 98101	
i.			X	Poole Fire Protection, Inc. DUNS #792099004 ☐ CHECK IF BRANCH OFFICE	19910 West 161st Street Olathe, KS 66062	Fire Protection Engineering

j.			X	Terracon Consultants, Inc. DUNS #028278740 ☒ CHECK IF BRANCH OFFICE	6805 Academy Parkway NE Albuquerque, NM 87109	Geotechnical Engineering, Environmental Engineering
k.			X	Terracon Consultants, Inc. DUNS #959349812 ☒ CHECK IF BRANCH OFFICE	10625 W 1-70 Frontage Road North Suite 3 Wheat Ridge, CO 80033	
l.			X	Tetra Tech, Inc. DUNS #078319701 ☒ CHECK IF BRANCH OFFICE	400 112th Avenue NE Suite 300 Bellevue, WA 98004	Fisheries Engineering
m.			X	Komatsu Architecture DUNS #082297809 ☐ CHECK IF BRANCH OFFICE	3880 Hulen Street Suite 300 Fort Worth, TX 76104	Historical Preservation
n.			X	C Nissley Consultants DUNS #876926986 ☐ CHECK IF BRANCH OFFICE	11623 Wasatch Road Longmont, CO 80504	Tribal Reservation Employment Rights
o.			X	Vernadero Group Incorporated DUNS #114054054 ☐ CHECK IF BRANCH OFFICE	2730 E. Camelback Rd #210 Phoenix, AZ 85016	Environmental Studies
p.			X	AH Environmental Consultants, Inc. DUNS #966424061 ☐ CHECK IF BRANCH OFFICE	11837 Rock Landing Dr Suite 300 Newport News, VA 23606	Environmental Engineering, Water Treatment Evaluation, Wastewater Treatment Process Engineering



PART I, SECTION D
ORGANIZATIONAL CHART

LEGEND OF PARTICIPATING FIRMS

MSMM Huitt-Zollars A Joint Venture - **MHZ**
Tetra Tech - **TT**
Poole Fire Protection - **PFP**
Terracon Consultants - **TC**
AH Environmental Consultants - **AH**

Note: Disciplines with checkmarks are shown in Section E and G

PROJECT MANAGER ✓
Manish Mardia, PE (**MHZ**)

QUALITY CONTROL

TASK ORDER MANAGERS ✓

Louisiana
Joshua Carson (**MHZ**)

Texas
Greg Wine, PE, LEED AP (**MHZ**)

New Mexico
Joseph Gallegos, AIA, NCARB, LEED AP (**MHZ**)

Washington
Don Helling, PE, LEED AP **(MHZ)**

PRIMARY KEY DISCIPLINES

Architect ✓ John Jarrard, AIA, LEED AP (**MHZ**) Randall Hickey, RA, NCARB (**MHZ**)	**Fire Protection Engineer ✓** John Poole, III, PE, FSFPE (**PFP**)
Civil Engineer ✓ Christopher Johnson, PE (**MHZ**) Jim Wilson, PE, LEED AP (**MHZ**)	**Geotechnical Engineer ✓** John Hass, PE (**TC**)
Mechanical Engineer ✓ Jeffrey Wilson, PE, LEED AP (**MHZ**) William Krasner, PE, LEED AP (**MHZ**) Lois Loesch, PE (Fisheries) (**TT**)	**Environmental Engineer ✓** Sean P. McNamara, PE (**AH**)
Electrical Engineer ✓ Scott Parma, PE, LEED AP (**MHZ**) Leonard Carthon, PE, NCARB, LEED AP (**MHZ**)	**Hydrologist ✓** Robert Armstrong, PE, CFM (**MHZ**) Tom Willis, PE (**MHZ**)
Structural Engineer ✓ William Wallace, PE. SECB (**MHZ**) Bob Yokum, PE (**MHZ**)	**Cost Estimator✓** Don Daigle, CVS, CPE (**MHZ**)

SECONDARY DISCIPLINES

Historic Preservation Komatsu Architecture	**Fisheries Engineering/Aquaculture** Tetra Tech
Cultural Resources Sharon Milholland, Ph.D. (**MHZ**)	**Tribal Reservation Employment Rights** C. Nissley Consultants
Environmental Studies Vernadero	**Sewage Treatment** AH Environmental Consultants
Landscape Architecture Chris Scott, RLA, ASLA, CNU-a (**MHZ**)	

PART I, SECTION E
RESUMES OF KEY PERSONNEL

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
Manish Mardia, PE	**Project Manager**	**29**	**11**

15. FIRM NAME AND LOCATION *(City And State)*
MHZ JV – New Orleans, LA

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
BS, Civil Engineering MS, Civil Engineering	Professional Engineer (Environmental): LA: 28482, MS: 18522

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, Etc.)*
Mr. Mardia has extensive experience designing and managing major projects for the federal government. He has successfully executive over 80 task orders related to flood recovery, infrastructure, civil works and drainage projects in the last 10 years. His experience includes levee and floodwall design, pump station design, structural stabilization of levees, canals and floodwalls. He has managed and coordinated large IDIQ contracts coordinating tasks and work productions for all deliverables. He has been responsible for the management of the MHZ Joint Venture on all current IDIQ contracts.

19. RELEVANT PROJECTS

a

(1) TITLE AND LOCATION *(City and State)*
Bayou Segnette State Park Improvements – Westwego, LA

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2021
CONSTRUCTION *(if applicable)*: 2022 (EST)

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

Scope: Design requirements included improvements to a playground, boat launch replacement, parking lot improvements, culvert replacement for park-wide drainage, cabin roadway improvements and replacement of a bridge. Mr. Mardia is the project manager for the multiple phases of the Bayou Segnette project. He is responsible for coordinating design deliverables with the client and ensuring construction phase activities and Resident Inspection oversight is handled swiftly and per the project specifications. **Cost:** $360K (fee) **Role:** Project Manager

b

(1) TITLE AND LOCATION *(City and State)*
Granger Lake Management Office Replacement – Granger, TX

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2019
CONSTRUCTION *(if applicable)*: 2021

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

Scope: The project consisted of the development of a construction package consisting of design plans for new construction of a 6,000 SF lake management facility and demolition of the existing facility. This facility is located at a Federally maintained and operated Lake just North of Austin, TX. Mr. Mardia served as the project manager for this USACE funded project. He met regularly with the end users (Lake Management staff) to ensure they were receiving a facility that was practical for their daily activities. He also coordinated extensive conversations with the local water purveyor in order to have them upgrade their lines to improve the water pressure at the new facility. **Cost:** $358K (fee) **Role:** Project Manager

c

(1) TITLE AND LOCATION *(City and State)*
Dallas Floodway Extension Recreational Site Design – Dallas, TX

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2020
CONSTRUCTION *(if applicable)*: 2022 (EST)

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

Scope: The project consists of over 2 miles of concrete trails, multiple bridges, a raised wooden boardwalk to reduce maintenance events in higher prone flooding areas, bird watching platforms, parking lots and multiple gates and fencing. Mr. Mardia was the project manager for the work completed on the Dallas Floodway program. He coordinated design needs, design assumptions and available resources with the City of Dallas and USACE and oversaw the design process including coordination of hydraulic modeling, field activities inclusive of geotechnical investigations and survey, and was involved in community engagement activities. **Cost:** $422K (fee) **Role:** Project Manager

d

(1) TITLE AND LOCATION *(City and State)*
Calcasieu Ship Channel Salinity Control Barrier – Calcasieu, LA

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2019
CONSTRUCTION *(if applicable)*: 2021

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

Scope: This project proposes the development of a structural design to control salinity in order to reduce the rate of wetland loss within the Calcasieu-Sabine watershed region. The overall project involves a large-scale tidal gate across the mouth of the Calcasieu Ship Channel and smaller project components focusing on specialized areas of marsh progression. Mr. Mardia was the project manager for the overall Calcasieu program, focusing his efforts on two areas of structural improvement, the West Pass and Joe's Cut project feature. His day-to-day operations focused on working with the client project manager, hydraulic modeling team, design team leads for the other project components, and coordinating schedules and deliverables for the overall plan. **Cost:** $265k (fee) **Role:** Project Manager

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
	Timber Creek Recreation Facility Design – Austin, TX	2019	2020
	(3) DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm		
e	**Scope:** As part of a multi-year IDIQ contract for major civil works projects, Mardia managed the task and deliverables including the planning and design of the federally funded project coordinated between USACE and Travis County. The design involved development of the site plan, detailed design of recreation features including trails, picnic shelters, scenic overlooks, parking and roadway access and restroom facilities. This project required close coordination with Travis County, the City of Austin and other local regulatory agencies. **Cost:** $2.9M **Role:** Project Manager		

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
Gregory Wine, PE, LEED AP	**Task Order Manager (Texas)**	**35**	**23**

15. FIRM NAME AND LOCATION *(City And State)*
MHZ JV – Houston, TX

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
MS, Engineering BS, Applied Mathematics	Professional Engineer (Civil): FL: 42121; TX: 73646; LA: PE.0025564; WV: 016291

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, Etc.)*
Over the past 25 years, Wine has been responsible for management, planning, and design and construction management for over $100 million in construction projects. Wine has multi-discipline project design experience on site plans, parks, hike and bike trails, flood control, pedestrian bridges, wetland enhancement, coastal engineering, erosion control protection, streets and roads, stormwater drainage systems, water lines and sanitary sewer lines.

19. RELEVANT PROJECTS

a

(1) TITLE AND LOCATION *(City and State)*
Cedar Hill State Park Flood Repairs and Utility Replacements – Cedar Hill, Texas

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2019	2019

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

Scope: Prepared a new master plan for the Day Use Area and to design: Stabilization of up to 4,000 linear feet of the eroded shoreline; Landscaping, Grading and Revegetation; Trails and sidewalks; Replacement for Comfort Station (CS) #7; Renovation of CS Nos. 6 and 9; Two (2) new CS at the boat ramp and near the fishing pier; a New Group Recreation Hall; New swim area with an ADA accessible route; New picnic tables with reinforced concrete slabs and shelters; New playground and equipment; Replacement of a lift station and grinder pumps; Electrical and IT services and New and Replacement waterlines and sanitary sewer force mains. **Cost:** $952K (fee) **Role:** Task Manager

b

(1) TITLE AND LOCATION *(City and State)*
Goose Island State Park - Hurricane Harvey Repairs Rockport, TX

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2020	2019

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

Scope: Provided professional A-E design for the preparation of construction documents, bidding and construction administration services to repair damage to facilities at Goose Island State Park in Rockport, Texas due to Hurricane Harvey in August 2017. The project scope included the following: Park's Headquarters Building window and lighting repairs; replacement of solar powered beacon lights at the breakwater area, repairs to the Warbler Way and Bayberry Camp Loop Restrooms, repair of the electrical load center, service panel, and lighting, replacement of louvers and replacement of lift station pumps and electrical components; Reconstruction of a more resilient 1,800 linear feet Fishing Pier to include replacement of lighting and ADA access; Repairs to irrigation system, pump and pump house for The Big Tree; and Restoration of the historic CCC Recreation Hall to include replacement of wood shingle roofing and clay roofing tiles. **Cost:** $1.5M **Role:** Task Manager

c

(1) TITLE AND LOCATION *(City and State)*
Mustang Island State Park – Restroom Replacement Port Aransas, TX

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2019	2018

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

Scope: Provided professional A-E design for the preparation of construction documents, bidding and construction administration services to remove and replace the restroom facility at TPWD's Mustang Island State Park in Port Aransas, Texas. Design services included architecture; landscaping; civil, structural and MEP engineering. Scope included a restroom facility consisting of women's and men's restrooms and showers, unisex restrooms, outdoor rinse showers, plaza, parking, ADA compliant park host camping sites, landscaping and water, sanitary sewer and electrical services. **Cost:** $164K (fee) **Role:** Task Manager

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
d	**El Franco Lee Park Wetland Enhancements - Harris County, TX**	2016	2017

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

Scope: The multi-award winning El Franco Lee Wetland Enhancement project is a Coastal Impact Assistance Program (CIAP) grant-funded project administered by the Texas General Land Office (TxGLO), which involved the U.S. Fish and Wildlife Service. Our Team provided preliminary engineering, final design, bidding and construction phase services for a new Boardwalk, Trail, Observation Tower, Education areas and Butterfly Garden around a wetlands area in El Franco Lee Park in Harris County, Texas. The project also involved coordination with the US Army Corps of Engineers for the Preliminary Jurisdictional Determination of Wetlands within the project area. Our team designed the observation tower, boardwalk, sampling pier, trails, butterfly garden, educational areas within the butterfly garden and along the trail system, drainage improvements, landscaping and wetland plantings, park and trail signage, rainwater-harvesting system, and an ornamental, solar powered fountain. **Cost:** $1.35M **Role:** Task Manager

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
e	**Memorial Park at the Brazos River – Sugar Land, Texas**	2016	2017

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

Scope: Project Manager for the master plan and final design of this 420-acre regional park along the Brazos River in Sugar Land, Texas. The park was constructed entirely within the floodway of the Brazos River and has jurisdictional wetlands within its boundaries. Scope of services included topographic and aerial LIDAR surveying, environmental assessment, wetlands delineation, threatened and endangered species assessment, coordination and permitting with the USACE, archeological investigations, hydraulic and hydrologic engineering and development of a conceptual park master plan. Design elements included revenue-generating pavilions, restrooms, picnic shelters, playgrounds, multi-purpose sports fields, large and small dog parks, 2.5 miles of shared-use trails, canoe launch, landscaping and irrigation, reforestation, lighting, emergency call boxes, waterlines, sanitary sewer lines, storm sewer, replenishment of wetland areas, electrical service, operating windmills, a stone creek water feature and three (3) 25-acre lakes. **Cost:** $2.5M **Role:** Task Manager

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 Helling, PE, LEED AP	**Task Order Manager (Washington)**	**35**	**28**

15. FIRM NAME AND LOCATION *(City And State)*
MHZ JV – Seattle, WA

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
BS, Civil Engineering, University of Washington	Professional Engineer (Civil): WA: 27407

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, Etc.)*
Don has a strong background in engineering for multi-use recreational trail systems and public works. He managed three major multi-use trail projects for King County Parks. Helling has more than 20 years of experience in planning, designing, and providing construction services for sewer and water capital improvement and recreational trail system projects. His project management skills stem from his strong personal commitment to his clients, with an emphasis on the importance of listening to their needs and concerns.

19. RELEVANT PROJECTS

a

(1) TITLE AND LOCATION *(City and State)*
Panther Lake Open Space Study and Trail Design – Federal Way, WA

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2015
CONSTRUCTION *(if applicable)*: 2015

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

Scope: Helling was the Project Manager and Engineer to evaluate ways to improve the pedestrian and bicycle connections between two major open spaces. The centerpiece of the project site is the 80-acre Panther Lake open space with Little League facilities, a regional trail, and a regional aquatic center. Costs and benefits associated with specific improvements to streets and sidewalks including sidewalk widening and separated trails were identified to help facilitate pedestrian and bicycle movement and comfort, and open up the area to more users. Following the study, a ½ mile bike and pedestrian trail was designed. **Cost:** $275K (fee) **Role:** Task Manager

b

(1) TITLE AND LOCATION *(City and State)*
King County Parks – ADA Analysis - King County, WA

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2018
CONSTRUCTION *(if applicable)*: 2021

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

Scope: Helling is the Project Manager for the King County Parks Multidisciplinary Landscape Architectural and Engineering On-Call Services contract. During this 3-year contract, Helling has worked on numerous on-call task orders including an ADA accessibility compliance review of 15 park facilities. Organized site and building teams for onsite assessments of each facility and site location. Prepared a study and prioritized improvements for future construction projects. **Cost:** $126K (fee) **Role:** Task Manager

c

(1) TITLE AND LOCATION *(City and State)*
Soos Creek Trail Phases V and VI – King County, WA

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2019
CONSTRUCTION *(if applicable)*: 2021

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

Scope: Helling is serving as Project Manager for the planning and design for King County Facilities Management's 12-foot paved Soos Creek Trail Phases V and VI. The project ranged from from Southeast 192nd Street northward for approximately 4 miles to its connection with the Cedar River Trail near the Maple Valley Highway (SR 169). The Soos Creek Trail route is established cross-country in that it has not been previously defined by a former railroad grade or other abandoned transportation facilities. This phase has an at-grade trail, pile-supported elevated trail (boardwalk), and six proposed roadway crossings **Cost:** $2.5M (fee) **Role:** Task Manager

d

(1) TITLE AND LOCATION *(City and State)*
Foothills Trail Phase I and II – King County, WA

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2020
CONSTRUCTION *(if applicable)*: ONGOING

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

Scope: Helling participated in the design development and design documents for this one-mile segment of Trails located on and along an abandoned railroad. Work included trail route validation, NEPA permitting, establishment of trail maintenance/construction access, storm drainage review and analysis, establishment of road crossings, and realignment of the trail away from potential slide areas. Specific challenges posed by this project include the numerous designated wetlands along the old railroad grade alignment; the entirety of the trail is located in the buffer for a salmon-bearing stream; there are no designated construction or maintenance accesses; and design consideration of the trail's approach alignment for the future crossing of the White River. **Cost**: $600K (fee) **Role:** Task Manager

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
e	**Dash Point Park Sewer System Design – Federal Way, WA**	2010	2011

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

Scope: Provided master planning and engineering to replace the sewage collection system. Evaluated natural opportunities and constraints as well as regulatory issues and developed a program for additional recreational opportunities and park growth. Prepared an Advance Sewer System Plan and Report to analyze a conceptual sewage system design with adequate capacity for future park development and designed an upgraded system to replace current sewer facilities with a collection system that would discharge to the public sanitary sewer system. **Cost:** $1.1M **Role:** Task Manager

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
Joe Gallegos, AIA, NCARB, LEED AP	**Task Order Manager (New Mexico)**	**26**	**13**

15. FIRM NAME AND LOCATION *(City And State)*
MHZ JV – Albuquerque, NM

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
MA, Architecture BA, Architecture	Registered Architect: NM: 3977, AZ: 65665, WI:9990

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, Etc.)*
Joe Gallegos has extensive experience in management of multi-discipline teams and architectural facility design. His project experience includes cemeteries, park and recreational facilities for federal and state clients, and Native American and tribal facilities in New Mexico and Arizona.

19. RELEVANT PROJECTS

a

(1) TITLE AND LOCATION *(City and State)*: **Red Rock Park Campground Master Plan – Gallup, NM**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2018 — CONSTRUCTION *(if applicable)*: 2018

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

Scope: Provided master plan and conceptual design of an updated campground at Red Rock Park, a multi-use community asset that is the home for such diverse events as rodeo competitions and the annual Inter-Tribal Indian Ceremonial. The plan was required due to changes in vehicle mix for visitor sites and the resultant impact on total number of visitor sites available. The Master Plan goals were accomplished, which included minimizing reconfiguration of existing roadway system, optimize total sites and mix of vehicles for current needs, utilize existing utilities to the maximum extent possible and provide an achievable design within the range of $2.70-3.25 million. **Cost:** $31,690 (fee) **Role:** Task Manager

b

(1) TITLE AND LOCATION *(City and State)*: **Artesia Aquatics Center – Artesia, NM**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2020 — CONSTRUCTION *(if applicable)*: 2019

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

Scope: Located on 10 acres of land, the facility features 4 different aquatic elements. A natatorium with two indoor pools, a 25 yard / 8 lane competition pool, and a 60' long 4 lane flexible/training warm-up cool-down pool. This natatorium is equipped with tilt-up bleachers seating 320 spectators. The outdoor facility has a toddler shallow zero-entry pool with interactive features and a large, 4,000 SF recreational pool shaped as their beloved school mascot; this pool also features a lazy river, and three large slides. The project site development includes parking for 200 vehicles, school bus drop off, sand volleyball courts, landscape for family picnic and ample deck surrounding the pools for safe recreation and interaction. **Cost:** $18.3M **Role:** Task Manager

c

(1) TITLE AND LOCATION *(City and State)*: **Zuni Kiva Assessment and Concept Design – Zuni Pueblo, NM**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2017 — CONSTRUCTION *(if applicable)*: N/A

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

Scope: This project involved the assessment of building condition and concept designs for the repair and rehabilitation of six sacred religious centers at the Zuni Pueblo in NM, in accordance with the DOI Standards for Historic Preservation. The six kiva's are known as "Corn/Chuba:kwe"; "Wall"; "Wide Wall"; "Small Group:' "Manure"; and "Brain." These kivas are situated in what is known as the "Middle Village" of the pueblo, which dates to a thousand years ago. Designs had to take into account not only cultural issues, but also the fact that some of the kiva's are located atop historic mounds that are believed to be archaeologically significant and so require non-traditional construction methodologies. **Cost:** $20K (fee) **Role:** Task Manager

d

(1) TITLE AND LOCATION *(City and State)*: **Zuni Fairgrounds Complex**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: ONGOING — CONSTRUCTION *(if applicable)*: ONGOING

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

Scope: Provided planning and design services for site development and building construction for the proposed Zuni Fairgrounds Complex. Services included Schematic Design, Design Development, and Construction Documents for the new Fair Building along with an emergency access road from Highway 53, and parking for approximately 40 vehicles. This planning and design project is funded by the State of New Mexico, Department of Indian Affairs. **Cost:** $207K (fee) **Role:** Task Manager

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
e	**Rocky View Park Design Services – Gallup, NM**	2016	2017

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

Scope: The design services provided were to develop a permit set plan for the new Rocky View Park Project. The project was permitted by the State of New Mexico, Construction Industries Division. The scope was to design a neighborhood park on a half-acre site located at the corner of Basillo Drive and Clay Street. A copy of the Boundary Survey was provided by the City of Gallup. The park includes the following: Vehicle Parking Lot, Storm Drainage Improvements, Playground Equipment for ages K-5, and a basketball court. **Cost:** $20K (fee) **Role:** Project Manager

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
Joshua Carson	**Task Order Manager (Louisiana)**	**14**	**9**

15. FIRM NAME AND LOCATION *(City And State)*
MHZ JV – New Orleans, LA

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
MS, Environmental Science and Policy BS, Biology	

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

Mr. Carson, previously a USACE project manager, is responsible for managing complex civil works projects, including navigation, environmental restoration, facility design, and flood risk management. Mr. Carson is tasked with developing schedules, managing budgets and working with customer and federal agencies to ensure schedule compliance, identify risk, adhere to the design quality management plan and developing scheduling solutions for projects with multiple stakeholders/authorities having jurisdiction.

19. RELEVANT PROJECTS

a

(1) TITLE AND LOCATION *(City and State)*: **Bayou Segnette State Park Improvements – Westwego, LA**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2021 — CONSTRUCTION *(if applicable)*: 2021

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

Scope: Design requirements included improvements to a playground, boat launch replacement, parking lot improvements, culvert replacement for park-wide drainage, cabin roadway improvements and replacement of a bridge. Mr. Carson serves as the task order manager and lead project manager for the design portions of the project. He is tasked with ensuring that the State Park staff is informed of ongoing project details and construction progress, as well as ensuring that all scope of work items are completed and checked for quality control. **Cost:** $360K (fee) **Role:** Task Manager

b

(1) TITLE AND LOCATION *(City and State)*: **Dallas Floodway Extension Recreation & Bridge Design – Dallas, TX**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2020 — CONSTRUCTION *(if applicable)*: 2022

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

Scope: Design of 2 miles of concrete trails, a pedestrian bridge crossing the Trinity River, two bridges crossing secondary waterways, a raised wooded boardwalk to reduce maintenance events in higher prone flooding areas, bird watching platforms, parking lots and
multiple gates and pipe rail fences. Mr. Carson has been the liaison between the engineering team and the Federal and non-Federal clients and coordinating with the City of Dallas. He worked with the government team to ensure compliance with Federal regulations and provided the final design package within the initially estimated schedule and budget. **Cost:** $4.5M (fee) **Role:** Task Manager

c

(1) TITLE AND LOCATION *(City and State)*: **Timber Creek Recreational Facility Design – Austin, TX**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2019 — CONSTRUCTION *(if applicable)*: 2020

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

Scope: Planning and design for the development of a new park in Austin, Texas. This Federal project designed through USACE involved the development site plan, detailed design of recreational features such as trails, picnic shelters, scenic overlooks, parking and roadway access and restroom facilities. Mr. Carson was the task manager for this task order and has coordinated the design teams production and quality of deliverables. He worked through many schedule iterations to incorporate changes and delivered the project within the schedule and established construction cost limitation. **Cost:** $2.9M **Role:** Task Order Manager

d

(1) TITLE AND LOCATION *(City and State)*: **Granger Lake Office Building – Granger, TX**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2019 — CONSTRUCTION *(if applicable)*: 2021

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

Scope: Preparation of schematic, concept and construction bid documents and specifications for the improvements of lake facilities. The new facility will replace the existing office building and included new administrative, conference and restroom space in the new 4,800 SF facility and site. Mr. Carson was the task manager and lead the a multi-disciplinary design team to meet an aggressive design schedule to ensure use of federal funding in the current fiscal year. **Cost:** $3.7M (fee) **Role:** Task Manager

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
e	**MRGO Ecosystem Restoration Feasibility Study – New Orleans, LA**	2012	NA

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

Scope: Mr. Carson led the planning and project management for the $15M MRGO Ecosystem Restoration Feasibility. Mr. Carson was tasked with managing the planning process, including the identification and evaluation of ecosystem restoration features, the completion of the feasibility report and EIS, as well as the development of information papers, project briefings and fact sheets. Mr. Carson managed the study team and project milestones. He was also responsible for presenting the plan at the Civil Works Review Board. The feasibility study resulted in a plan that recommended over $2B in restoration elements. **Cost**: $15M **Role**: Task Manager

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
John Jarrard, AIA, LEED AP	**Architect**	**39**	**24**

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

MHZ JV – Albuquerque, NM

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
BA, Architecture	Registered Architect: NM: 1658; FL: AR93873; AZ: 39262; CA: C31074; CO: #401507; TX: #22697 LEED Accredited Professional

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

John Jarrard has extensive experience in Architectural facility design and project management. His project experience includes cemeteries, park and recreational facilities for federal and state clients. John has provided facility design and project management for a wide variety of project types.

19. RELEVANT PROJECTS

a

(1) TITLE AND LOCATION *(City and State)*: **Red Rock Park Campground Master Plan – Gallup, NM**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2018 — CONSTRUCTION *(if applicable)*: 2018

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

Scope: Provided master plan and conceptual design of an updated campground at Red Rock Park, a multi-use community asset that is the home for such diverse events as rodeo competitions and the annual Inter-Tribal Indian Ceremonial. The plan was required due to changes in vehicle mix for visitor sites and the resultant impact on total number of visitor sites available. The Master Plan goals were accomplished, which included minimizing reconfiguration of existing roadway system, optimize total sites and mix of vehicles for current needs, utilize existing utilities to the maximum extent possible and provide an achievable design within the range of $2.70-3.25 million.. **Cost:** $31,690 (Fee) **Role:** Architect

b

(1) TITLE AND LOCATION *(City and State)*: **Artesia Aquatics Center – Artesia, NM**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2020 — CONSTRUCTION *(if applicable)*: 2019

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

Scope: Located on 10 acres of land, the facility features 4 different aquatic elements. A natatorium with two indoor pools, a 25 yard / 8 lane competition pool, and a 60' long 4 lane flexible/training warm-up cool-down pool. This natatorium is equipped with tilt-up bleachers seating 320 spectators. The outdoor facility has a toddler shallow zero-entry pool with interactive features and a large, 4,000 SF recreational pool shaped as their beloved school mascot; this pool also features a lazy river, and three large slides. The project site development includes parking for 200 vehicles, school bus drop off, sand volleyball courts, landscape for family picnic and ample deck surrounding the pools for safe recreation and interaction. **Cost:** $18.3M **Role:** Architect

c

(1) TITLE AND LOCATION *(City and State)*: **Indoor Equestrian Arena – Los Alamos County, NM**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2012 — CONSTRUCTION *(if applicable)*: 2013

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

Scope: Architectural and engineering design services for the new Equestrian Arena for Los Alamos County. The facility is located in the existing horse stables area east of the existing outdoor horse arena. The design included a show arena, toilet room facilities and support spaces. The site for the arena contained significant topography, requiring an extensive grading and drainage design to ensure vehicular, pedestrian, and horse access is provided. Additionally, runoff from the building and surrounding site needed to be contained to prevent erosion and flooding from snow storms and heavy rain events. The building was designed to accommodate a variety of equestrian activities including dressage, hunter / jumper, and similar equine events. Several preliminary design options were developed and presented to the stakeholders and the general public in an open forum to discuss various advantages and disadvantages of each. **Cost:** $525K **Role:** Architect

d

(1) TITLE AND LOCATION *(City and State)*: **Roswell Museum and Art Center Renovations – Roswell, NM**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2018 — CONSTRUCTION *(if applicable)*: 2019

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

Scope: The design services provided the Roswell Museum and Art Center (RMAC) design concepts for the renovations to the existing museum. This project included the relocation of the Museum Store to the Spring River Gallery space, a Family Gallery installed at the vacated Museum Store space, and entry lobby and security station. The project complies with the American with Disabilities Act of 1990. **Cost:** $14K (fee) **Role:** Architect

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
e	**Zuni Fairgrounds Complex – Zuni Pueblo, NM**	ONGOING	ONGOING

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

Scope: Provided planning and design services for site development and building construction for the proposed Zuni Fairgrounds Complex. Services included Schematic Design, Design Development, and Construction Documents for the new Fair Building along with an emergency access road from Highway 53, and parking for approximately 40 vehicles. This planning and design project is funded by the State of New Mexico, Department of Indian Affairs. **Cost:** $207K (fee) **Role:** Architect

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
Randall Hickey, RA, NCARB	**Architect**	**34**	**26**

15. FIRM NAME AND LOCATION *(City And State)*
MHZ JV – Houston, TX

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
B. Architecture	Registered Architect: TX: 11553; MI: 1301033840; OK: A4428 NCARB, Registered Interior Designer

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, Etc.)*
Hickey, a design architect, interior designer and project manager with the firm, is responsible for the design concepts, design development and managing the flow of work during the complete project, i.e., from conception to completion. He has worked on a one-to-one basis with directors of many municipal, state and federal government departments including several Chiefs of Police, Finance and Administration, Health, Parks and Recreation, Aviation, Human Services, City Council members, legal departments, and agencies of the Mayor's office. In addition, Hickey has been the design architect for many award winning architectural projects.

19. RELEVANT PROJECTS

a

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
Cedar Hill State Park Flood Repairs and Utility Replacements – Cedar Hill, Texas	2019	2019

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

Scope: Prepared a new master plan for the Day Use Area and to design: Stabilization of up to 4,000 linear feet of the eroded shoreline; Landscaping, Grading and Revegetation; Trails and sidewalks; Replacement for Comfort Station (CS) #7; Renovation of CS Nos. 6 and 9; Two (2) new CS at the boat ramp and near the fishing pier; a New Group Recreation Hall; New swim area with an ADA accessible route; New picnic tables with reinforced concrete slabs and shelters; New playground and equipment; Replacement of a lift station and grinder pumps; Electrical and IT services and New and Replacement waterlines and sanitary sewer force mains. **Cost:** $952K (fee) **Role:** Architect

b

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
Goose Island State Park - Hurricane Harvey Repairs Rockport, TX	2020	2019

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

Scope: Provided professional A-E design for the preparation of construction documents, bidding and construction administration services to repair damage to facilities at Goose Island State Park in Rockport, Texas due to Hurricane Harvey in August 2017. The project scope included the following: Park's Headquarters Building window and lighting repairs; replacement of solar powered beacon lights at the breakwater area, repairs to the Warbler Way and Bayberry Camp Loop Restrooms, repair of the electrical load center, service panel, and lighting, replacement of louvers and replacement of lift station pumps and electrical components; Reconstruction of a more resilient 1,800 linear feet Fishing Pier to include replacement of lighting and ADA access; Repairs to irrigation system, pump and pump house for The Big Tree; and Restoration of the historic CCC Recreation Hall to include replacement of wood shingle roofing and clay roofing tiles. **Cost:** $1.5M **Role:** Architect

c

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
Mustang Island State Park – Restroom Replacement Port Aransas, TX	2019	2018

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

Scope: Provided professional A-E design for the preparation of construction documents, bidding and construction administration services to remove and replace the restroom facility at TPWD's Mustang Island State Park in Port Aransas, Texas. Design services included architecture; landscaping; civil, structural and MEP engineering. Scope included a restroom facility consisting of women's and men's restrooms and showers, unisex restrooms, outdoor rinse showers, plaza, parking, ADA compliant park host camping sites, landscaping and water, sanitary sewer and electrical services. **Cost:** $164K (fee) **Role:** Architect

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
d	**El Franco Lee Park Wetland Enhancements - Harris County, TX**	2016	2017

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

Scope: The multi-award winning El Franco Lee Wetland Enhancement project is a Coastal Impact Assistance Program (CIAP) grant-funded project administered by the Texas General Land Office (TxGLO), which involved the U.S. Fish and Wildlife Service. Our Team provided preliminary engineering, final design, bidding and construction phase services for a new Boardwalk, Trail, Observation Tower, Education areas and Butterfly Garden around a wetlands area in El Franco Lee Park in Harris County, Texas. The project also involved coordination with the US Army Corps of Engineers for the Preliminary Jurisdictional Determination of Wetlands within the project area. Our team designed the observation tower, boardwalk, sampling pier, trails, butterfly garden, educational areas within the butterfly garden and along the trail system, drainage improvements, landscaping and wetland plantings, park and trail signage, rainwater-harvesting system, and an ornamental, solar powered fountain. **Cost:** $1.35M **Role:** Architect

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
e	**Memorial Park at the Brazos River – Sugar Land, Texas**	2016	2017

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

Scope: Architect for the master plan and final design of this 420-acre regional park along the Brazos River in Sugar Land, Texas. The park was constructed entirely within the floodway of the Brazos River and has jurisdictional wetlands within its boundaries. Scope of services included topographic and aerial LIDAR surveying, environmental assessment, wetlands delineation, threatened and endangered species assessment, coordination and permitting with the U.S. Army Corps of Engineers, archeological investigations, hydraulic and hydrologic engineering and development of a conceptual park master plan. Design elements included revenue-generating pavilions, restrooms, picnic shelters, playgrounds, multi-purpose sports fields, large and small dog parks, 2.5 miles of shared-use trails, canoe launch, landscaping and irrigation, reforestation, lighting, emergency call boxes, waterlines, sanitary sewer lines, storm sewer, replenishment of wetland areas, electrical service, operating windmills, a stone creek water feature and three (3) 25-acre lakes. **Cost:** $2.5M **Role:** Architect

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
Chris Johnson, PE	**Civil Engineer**	**39**	**11**

15. FIRM NAME AND LOCATION *(City And State)*
MHZ JV – Houston, TX

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
BS, Civil Engineering	Professional Engineer (Civil): IL: 062-059798; TX: 90188; WA: 57534; IA: 18450; WI: 47581

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, Etc.)*
Johnson has more than 19 years of experience in providing services for civil engineering projects including the design services for site civil developments, utilities, parking lots, hike and bike trails, community parks, pedestrian bridges, water, and wastewater lines and facilities, and single-family residential subdivisions. This experience includes development of master plans for existing sewer treatment facilities in need of expansion and repair, design of new residential and commercial lift stations, rehabilitation of existing lift stations, and design of water production facilities and water distribution systems. His responsibilities have also included coordination and relocation of public and private utilities, and construction phase services.

19. RELEVANT PROJECTS

a

(1) TITLE AND LOCATION *(City and State)*
Cedar Hill State Park Flood Repairs and Utility Replacements – Cedar Hill, Texas

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2019	2019

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

Scope: Prepared a new master plan for the Day Use Area and to design: Stabilization of up to 4,000 linear feet of the eroded shoreline; Landscaping, Grading and Revegetation; Trails and sidewalks; Replacement for Comfort Station (CS) #7; Renovation of CS Nos. 6 and 9; Two (2) new CS at the boat ramp and near the fishing pier; a New Group Recreation Hall; New swim area with an ADA accessible route; New picnic tables with reinforced concrete slabs and shelters; New playground and equipment; Replacement of a lift station and grinder pumps; Electrical and IT services and New and Replacement waterlines and sanitary sewer force mains.
Cost: $952K (fee) **Role:** Civil Engineer

b

(1) TITLE AND LOCATION *(City and State)*
Goose Island State Park - Hurricane Harvey Repairs Rockport, TX

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2020	2019

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

Scope: Provided professional A-E design for the preparation of construction documents, bidding and construction administration services to repair damage to facilities at Goose Island State Park in Rockport, Texas due to Hurricane Harvey in August 2017. The project scope included the following: Park's Headquarters Building window and lighting repairs; replacement of solar powered beacon lights at the breakwater area, repairs to the Warbler Way and Bayberry Camp Loop Restrooms, repair of the electrical load center, service panel, and lighting, replacement of louvers and replacement of lift station pumps and electrical components; Reconstruction of a more resilient 1,800 linear feet Fishing Pier to include replacement of lighting and ADA access; Repairs to irrigation system, pump and pump house for The Big Tree; and Restoration of the historic CCC Recreation Hall to include replacement of wood shingle roofing and clay roofing tiles. **Cost:** $1.5M **Role:** Civil Engineer

c

(1) TITLE AND LOCATION *(City and State)*
Mustang Island State Park – Restroom Replacement Port Aransas, TX

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2019	2018

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

Scope: Provided professional A-E design for the preparation of construction documents, bidding and construction administration services to remove and replace the restroom facility at TPWD's Mustang Island State Park in Port Aransas, Texas. Design services included architecture; landscaping; civil, structural and MEP engineering. Scope included a restroom facility consisting of women's and men's restrooms and showers, unisex restrooms, outdoor rinse showers, plaza, parking, ADA compliant park host camping sites, landscaping and water, sanitary sewer and electrical services. **Cost:** $164K (fee) **Role:** Civil Engineer

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
d	**El Franco Lee Park Wetland Enhancements - Harris County, TX**	2016	2017

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

Scope: The multi-award winning El Franco Lee Wetland Enhancement project is a Coastal Impact Assistance Program (CIAP) grant-funded project administered by the Texas General Land Office (TxGLO), which involved the U.S. Fish and Wildlife Service. Our Team provided preliminary engineering, final design, bidding and construction phase services for a new Boardwalk, Trail, Observation Tower, Education areas and Butterfly Garden around a wetlands area in El Franco Lee Park in Harris County, Texas. The project also involved coordination with the US Army Corps of Engineers for the Preliminary Jurisdictional Determination of Wetlands within the project area. Our team designed the observation tower, boardwalk, sampling pier, trails, butterfly garden, educational areas within the butterfly garden and along the trail system, drainage improvements, landscaping and wetland plantings, park and trail signage, rainwater-harvesting system, and an ornamental, solar powered fountain. **Cost:** $1.35M **Role:** Civil Engineer

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
e	**Memorial Park at the Brazos River – Sugar Land, Texas**	2016	2017

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

Scope: Civil Engineer for the master plan and final design of this 420-acre regional park along the Brazos River in Sugar Land, Texas. The park was constructed entirely within the floodway of the Brazos River and has jurisdictional wetlands within its boundaries. Scope of services included topographic and aerial LIDAR surveying, environmental assessment, wetlands delineation, threatened and endangered species assessment, coordination and permitting with the U.S. Army Corps of Engineers, archeological investigations, hydraulic and hydrologic engineering and development of a conceptual park master plan. Design elements included revenue-generating pavilions, restrooms, picnic shelters, playgrounds, multi-purpose sports fields, large and small dog parks, 2.5 miles of shared-use trails, canoe launch, landscaping and irrigation, reforestation, lighting, emergency call boxes, waterlines, sanitary sewer lines, storm sewer, replenishment of wetland areas, electrical service, operating windmills, a stone creek water feature and three (3) 25-acre lakes. **Cost:** $2.5M **Role:** Civil Engineer

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
Jim Wilson, PE, LEED AP	**Civil Engineer**	**33**	**8**

15. FIRM NAME AND LOCATION *(City And State)*
MHZ JV – New Orleans, LA

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
BS, Civil Engineering	Professional Engineer (Civil): TX (No. 128376), LA (No. 35456) and FL (No. 85114)

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, Etc.)*
Mr. Wilson is a senior civil/drainage/levee engineer with over 30+ years of civil engineering experience. He is the designer of record for 10 recent USACE vertical infrastructure projects and has an extensive engineering portfolio covering the design of recreational projects inclusive of trails, boardwalks and birdwatching platforms, levees, walls, canals and subsurface drainage structures. Mr. Wilson is fully versed in Federal design processes and has a wide array of design experience in Louisiana and Texas.

19. RELEVANT PROJECTS

a

(1) TITLE AND LOCATION *(City and State)*: **Bayou Segnette State Park Improvements – Westwego, LA**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2021 — CONSTRUCTION *(if applicable)*: 2022 (EST)

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

Scope: Design requirements included improvements to a playground, boat launch replacement, parking lot improvements, culvert replacement for park-wide drainage, cabin roadway improvements and replacement of a bridge. Mr. Wilson is the designer of record for the project, he provided the civil site work design for the playground improvements, boat launch replacement, parking lot and cabin roadway replacements and provided comprehensive park wide drainage design and culvert improvements. **Cost:** $360K (fee) **Role:** Civil Engineer

b

(1) TITLE AND LOCATION *(City and State)*: **Granger Lake Management Office Replacement, Granger, TX**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2019 — CONSTRUCTION *(if applicable)*: 2021

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

Scope: The project consisted of the development of a construction package consisting of design plans for new construction for a 6,000 SF lake management facility, and demolition of the existing facility. This facility is located at a Federally maintained and operated Lake just North of Austin, TX. Mr. Wilson provided the civil site layout design for the facility, inclusive of the RV parking area, secure government parking area, new septic field, utility distribution inclusive of water supply and distribution, and overall site grading. He initially designed the site layout and drainage approach at the design charrette and modified his design based on user requests to orient the facility to optimize views of Granger Lake. **Cost:** $358K (fee) **Role:** Civil Engineer

c

(1) TITLE AND LOCATION *(City and State)*: **Dallas Floodway Extension Recreational Site Design – Dallas, TX**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2020 — CONSTRUCTION *(if applicable)*: 2021

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

Scope: The project consists of over 2 miles of concrete trails, multiple bridges, a raised wooden boardwalk to reduce maintenance events in higher prone flooding areas, bird watching platforms, parking lots and multiple gates and fencing. Mr. Wilson was the designer of record for the project. He worked with USACE Ft. Worth District to identify the appropriate site layout, designed all the trails and bridge approaches, and provided culvert and drainage design for drainage flow. He also provided design of the elevated boardwalk, perimeter fencing and site access points involving pipe rail fences. **Cost:** $422K (fee) **Role:** Civil Engineer

d

(1) TITLE AND LOCATION *(City and State)*: **Timber Creek Recreational Facility Design - Travis County, TX**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2020 — CONSTRUCTION *(if applicable)*: 2021 (EST)

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

Scope: This federal project designed for USACE Ft. Worth District and Travis County, turned a former neighborhood located in a flood zone into a recreational park consisting of trails, trailhead connectors, shelters, picnic tables, roadway and parking areas, and sports courts. Mr. Wilson was the designer of record for the project. He worked with Travis County and USACE to layout the site design, remove non-native trees for establishment of the trails, tie-in the new trails to existing trail heads in the area, establish ADA access for each shelter and picnic area, design the new one-way traffic pattern and parking areas and layout the restroom design**. Cost:** $356K (fee) **Role:** Civil Engineer

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
Lois Loesch, PE	**Civil Engineer (Fisheries)**	**42**	**13**

15. FIRM NAME AND LOCATION *(City And State)*
Tetra Tech, Inc. – Bellevue, WA

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
BS, Civil Engineering	Professional Engineer (Civil): LA: 34884; ID: P-13088; OR: 73379; WA: 19769; CA:63923

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, Etc.)*
Lois brings over 40 years of experience that includes both contract and project management of large civil works and multidisciplinary projects that include navigation locks, gates, dams (concrete and embankment), dam stability, floodwalls, intakes, hydraulic structures, upstream and downstream fish passage facilities, and juvenile fish sampling and monitoring facilities. She is experienced in providing both conceptual design and final design (PS&E) and providing engineering during construction.

19. RELEVANT PROJECTS

a

(1) TITLE AND LOCATION *(City and State)*
Calcasieu Ship Channel (CSC) Salinity Control Measures, Coastal Protection And Restoration Authority CPRA – Calcasieu And Cameron Parishes, LA

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2021
CONSTRUCTION *(if applicable)*: N/A

(3) DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm
Scope: This project was designed to manage salinities being introduced through the CSC into Calcasieu Lake to reduce the rate of wetland loss within surrounding wetlands. Ms. Loesch provided ITR review for the salinity barrier designs which included considerations for fish passage. **Cost:** $2.9M **Role:** Structural ITR Review

b

(1) TITLE AND LOCATION *(City and State)*
Mud Mountain Dam Fish Passage Project Fish Trap And Haul Design, USACE Seattle District - Enumclaw, WA

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2018
CONSTRUCTION *(if applicable)*: 2021

(3) DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm
Scope: The project is designed to move 60k adult fish per day around the Mud Mountain Dam. The project included the DDR, plans and specifications, and operational documentation for the trap and haul portion of the new adult fish facility. Provided QC reviews for the structural features of the trap and haul and release site facilities. Ms. Loesch was the lead engineer for the 140 cfs (maximum) temporary extension during construction of the existing trap fishway, including the channel and fish attraction features at the temporary entrances. The temporary facilities included the replacement of existing fishway gates and diffusers. **Cost:** $4.6M **Role:** Program Manager

c

(1) TITLE AND LOCATION *(City and State)*
John Day Mitigation Design Documentation Report, No 3, USACE Portland District – Goldendale, OR

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2014
CONSTRUCTION *(if applicable)*: 2017

(3) DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm
Scope: Prepared an Engineering Appendix for an acclimation facility that includes a fish ladder, adult holding in dual use ponds, sorting and spawning facilities and a hatchery sized for 17.3 million eggs. The juvenile facilities include concrete raceways. The task order included one year of water quality sampling/testing for water supplied from a new 90 cfs Columbia river water intake. A MCACES MII cost estimate and O&M costs were prepared. **Cost:** $2.5M **Role:** Project Manager

d

(1) TITLE AND LOCATION *(City and State)*
John Day Mitigation DDR for I-82, USCAE Portland District – Richland, WA

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2014
CONSTRUCTION *(if applicable)*: N/A

(3) DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm
Scope: Managed preparation of an Engineering Appendix for a facility sized for the acclimation and release of 3.75 million subyearlings and 500,000 yearlings into the Yakima River. Project includes a fish ladder, sorting, spawning facilities, and dual use ponds. Cost: $791K **Role:** Project Manager

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
e	**Bonneville Dam Washington Shore Entrance Modifications Design Documentation Report, USACE Portland District**	2010	2014

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

Scope: Responsible for design of a lamprey flume system (LFS) attached to the outside wall of the fish ladder that will enhance the ability of lamprey to pass upstream. Major components included a lower entrance, upper entrance, gate valve, lower flume gate elbow, flow splitter, lower flume, and upper flume. The water supply system provides the flow necessary to attract the lamprey into the LFS. Additionally, provision was made for PIT tag detectors to be designed by others. The task included final plans and specifications as well as preparation of the Final Design Documentation Report (DDR). **Cost:** $1.4M
Role: Deputy Project Manager

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 Wilson, PE, LEED AP	**Mechanical Engineer**	**18**	**17**

15. FIRM NAME AND LOCATION *(City And State)*
MHZ JV – Fort Worth, TX

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
BS, Mechanical Engineering BS, Architecture	Professional Engineer (Mechanical): TX: 103832; NM: 21194; WA: 49618; MA: 45121; NM: 21194; CA: 36160

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, Etc.)*
Jeff has served as the senior mechanical engineer for Huitt-Zollars on the largest USACE programs for Air Force, Army, and IIS 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 ASHREA 90.1, performed detailed HVAC design requirements and load simulators for commercial and industrial complexes. He specializes in full service design and coordinating with the other mechanical and electrical disciplines to develop an integrated design.

19. RELEVANT PROJECTS

b

(1) TITLE AND LOCATION *(City and State)*
Granger Lake Management Office ITR – Granger, TX

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2019	2021

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

Scope: Completed an Independent Technical Review for the design plans for new construction of a 6,000 SF lake management facility and demolition of the existing facility. This facility is located at a Federally maintained and operated Lake just North of Austin, TX. **Cost:** $2.5K (fee) **Role:** Mechanical Engineer

b

(1) TITLE AND LOCATION *(City and State)*
277K Levee Raise and Delta Pump Station Renovation Design-Build, Dallas TX

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
ONGOING	ONGOING

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

Scope: The proposed project involves the renovation of the pump station and the improvement of the sump and outfall area to prevent further erosion and preserve the integrity of the levee. The existing pumps will be replaced with pumps of equal capacity but capable of supporting a higher head. The two replacement pumps will be rated for 40,000 gpm at 46.4 ft TDH with a motor size of 700 HP. The installation of the two pumps will require the removal of the roof to lower the pumps via a crane. A new roof will be constructed on the existing building after installation of the new pumps. New roof openings of adequate size shall be created to accommodate future 2 removal and/or maintenance. The heating and ventilation equipment will also be replaced. Two existing 4-foot by 4-foot box culverts will remain in place at the discharge structure. Due to the increased pump motor size, the electrical service to the existing building will have to be improved. A new 14' x 18' x 14' Electrical building, with transformer pad, will be provided and will be located between the existing low flow pump and main pump buildings. The new electrical building will be heated and ventilated. The new building will have exterior load bearing CMU walls with brick veneer matching the existing pump station building's exterior. The roof will a 6" thick reinforced concrete slab spanning between CMU walls. Electrical upgrades will also provided. **Cost:** $320M **Role:** Mechanical Engineer

c

(1) TITLE AND LOCATION *(City and State)*
Riverside National Cemetery, Phase 5 Design-Build, Riverside, CA

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
ONGOING	ONGOING

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

Scope: Huitt-Zollars project assignment is to masterplan Phases 5-7, and to provide final design and construction of Phase 5. Phase 5 of the cemetery includes six new 30-car cortege lanes, a new satellite maintenance facility, a new satellite restroom, renovations to the administration building, a new records storage building, a new Public Information booth. **Cost:** $40M **Role:** Mechanical Engineer

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
d	**USDA, APHIS Fruit Fly Rearing and Release Facility – Edinburg, TX**	2021	2023 (EST)

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

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. The contract also includes design, construction and warranty phase building commissioning services. Site design includes a new raw water service line to the existing water treatment plant that requires about 1.25-miles of pipeline from the base water supply reservoir, parking for 200 vehicles, two primary storm water detention ponds, and a utility services access road. **Cost:** $58M **Role:** Mechanical Engineer

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
e	**FEMA Fire Protection & Life Safety Study – Fort Worth, TX**	2011	N/A

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

Scope: During a Fire Protection & Life Safety review, it was determined that due to age and numerous building renovations, the current Life Safety and International Fire Codes was not met in several areas. Our firm was tasked with performing reviews and studies for common deficiencies that included: fire sprinkler systems, fire alarm system, smoke compartmentalization for underground facility, and stairwells. Reviews complied with NFPA, IFC, and GSA Facility standards. **Cost:** $39K (fee) **Role:** Mechanical Engineer

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
William Krasner, PE	**Mechanical Engineer**	**19**	**7**

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

MHZ JV – Houston, TX

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
MS, Engineering Management BS, Mechanical Engineering	Professional Engineer (Mechanical): TX: 93782; LA: 33539; NM: 22584

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

Mr. Krasner provides design for plumbing, process piping, steam systems, fueling, irrigation, pumping stations, lift stations, well/hydro-pneumatic tank water systems and site utility systems. He has also been responsible for designing and developing heating, ventilating, and air conditioning (HVAC) systems for various governmental, educational, commercial and residential buildings.

19. RELEVANT PROJECTS

a

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

Goose Island State Park - Hurricane Harvey Repairs
Rockport, TX

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2020	2019

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

Scope: Provided professional A-E design for the preparation of construction documents, bidding and construction administration services to repair damage to facilities at Goose Island State Park in Rockport, Texas due to Hurricane Harvey in August 2017. The project scope included the following: Park's Headquarters Building window and lighting repairs; replacement of solar powered beacon lights at the breakwater area, repairs to the Warbler Way and Bayberry Camp Loop Restrooms, repair of the electrical load center, service panel, and lighting, replacement of louvers and replacement of lift station pumps and electrical components; Reconstruction of a more resilient 1,800 linear feet Fishing Pier to include replacement of lighting and ADA access; Repairs to irrigation system, pump and pump house for The Big Tree; and Restoration of the historic CCC Recreation Hall to include replacement of wood shingle roofing and clay roofing tiles. **Cost:** $1.5M **Role:** Mechanical Engineer

b

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

El Franco Lee Park Wetland Enhancements - Harris County, TX

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2016	2017

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

Scope: The multi-award winning El Franco Lee Wetland Enhancement project is a Coastal Impact Assistance Program (CIAP) grant-funded project administered by the Texas General Land Office (TxGLO), which involved the U.S. Fish and Wildlife Service. Our Team provided preliminary engineering, final design, bidding and construction phase services for a new Boardwalk, Trail, Observation Tower, Education areas and Butterfly Garden around a wetlands area in El Franco Lee Park in Harris County, Texas. The project also involved coordination with the US Army Corps of Engineers for the Preliminary Jurisdictional Determination of Wetlands within the project area. Our team designed the observation tower, boardwalk, sampling pier, trails, butterfly garden, educational areas within the butterfly garden and along the trail system, drainage improvements, landscaping and wetland plantings, park and trail signage, rainwater-harvesting system, and an ornamental, solar powered fountain. **Cost:** $1.35M **Role:** Mechanical Engineering Quality Control

e

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

Memorial Park at the Brazos River – Sugar Land, Texas

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2016	2017

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

Scope: Mechanical Engineer for the master plan and final design of this 420-acre regional park along the Brazos River in Sugar Land, Texas. The park was constructed entirely within the floodway of the Brazos River and has jurisdictional wetlands within its boundaries. Scope of services included topographic and aerial LIDAR surveying, environmental assessment, wetlands delineation, threatened and endangered species assessment, coordination and permitting with the U.S. Army Corps of Engineers, archeological investigations, hydraulic and hydrologic engineering and development of a conceptual park master plan. Design elements included revenue-generating pavilions, restrooms, picnic shelters, playgrounds, multi-purpose sports fields, large and small dog parks, 2.5 miles of shared-use trails, canoe launch, landscaping and irrigation, reforestation, lighting, emergency call boxes, waterlines, sanitary sewer lines, storm sewer, replenishment of wetland areas, electrical service, operating windmills, a stone creek water feature and three (3) 25-acre lakes. **Cost:** $2.5M **Role:** Mechanical Engineer

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
d	**Damage Assessments for Galveston County Following Hurricane Harvey**	2018	N/A
	(3) DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm		
	Scope: Damage assessments for the County's facilities and infrastructure including nearly 85 miles in length, 32 county buildings, one bridge, two county parks and one lift station. Final products included damage assessment reports and cost estimates. prepared damage assessments report and cost estimates. The final report was prepared using GIS database and geo-linked each damage assessment report with photographs. Coordinated and submitted all data to FEMA. **Cost:** $850K **Role:** Mechanical Engineer and Assessor		

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
e	**East Water Purification Plant, Northeast Water Purification Plant, and Ardmore Complex – Houston, TX**	2015	ONGOING
	(3) DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm		
	Scope: I The Ardmore DWO Maintenance Facility is a two story building approximately 66,000 square feet in size and houses DWO's Maintenance Administration, Distribution Field Support, Distribution Maintenance and Emergency Generator Group, approximately 100 personnel. The service center consists of an electrical maintenance bay, machine shop bay, mechanical maintenance bay with overhead crane, pumps/motors/parts supply storage, carpenters shop and instrumentation and meter shops; administrative offices and work stations; conference rooms; training room; crew areas consisting of a break room, showers, lockers and restrooms; warehouse storage; emergency generator; site security; parking areas, elevator, utilities, landscaping and storm water detention and quality ponds. **Cost:** $30M **Role:** Mechanical Engineer		

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
Scott Parma, PE, LEED AP	**Electrical Engineer**	**27**	**14**

15. FIRM NAME AND LOCATION *(City And State)*
MHZ JV – Fort Worth, TX

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
BS, Electrical Engineering	Professional Engineer (Electrical): TX: 75690

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, Etc.)*
Scott Parma's engineering experience includes power distribution, electrical systems analysis, system planning, electrical system design, and construction administration. Mr. Parma is also the firm's leading specialist in the field of small-scale renewable energy systems. He has designed electrical systems for wind turbines to be used for on-site generation of energy. In addition, Mr. Parma has also designed a 200kw solar array that were mounted on parking canopies.

19. RELEVANT PROJECTS

b

(1) TITLE AND LOCATION *(City and State)*
Granger Lake Management Office ITR – Granger, TX

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2019
CONSTRUCTION *(if applicable)*: 2021

(3) DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm
Scope: Completed an Independent Technical Review for the design plans for new construction of a 6,000 SF lake management facility and demolition of the existing facility. This facility is located at a Federally maintained and operated Lake just North of Austin, TX. **Cost:** $2.5K (fee) **Role:** Electrical Engineer

b

(1) TITLE AND LOCATION *(City and State)*
277K Levee Raise and Delta Pump Station Renovation Design-Build, Dallas TX

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: ONGOING
CONSTRUCTION *(if applicable)*: ONGOING

(3) DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm
Scope: The proposed project involves the renovation of the pump station and the improvement of the sump and outfall area to prevent further erosion and preserve the integrity of the levee. The existing pumps will be replaced with pumps of equal capacity but capable of supporting a higher head. The two replacement pumps will be rated for 40,000 gpm at 46.4 ft TDH with a motor size of 700 HP. The installation of the two pumps will require the removal of the roof to lower the pumps via a crane. A new roof will be constructed on the existing building after installation of the new pumps. New roof openings of adequate size shall be created to accommodate future 2 removal and/or maintenance. The heating and ventilation equipment will also be replaced. Two existing 4-foot by 4-foot box culverts will remain in place at the discharge structure. Due to the increased pump motor size, the electrical service to the existing building will have to be improved. A new 14' x 18' x 14' Electrical building, with transformer pad, will be provided and will be located between the existing low flow pump and main pump buildings. The new electrical building will be heated and ventilated. The new building will have exterior load bearing CMU walls with brick veneer matching the existing pump station building's exterior. The roof will a 6" thick reinforced concrete slab spanning between CMU walls. Electrical upgrades shall be provided. **Cost:** $320M **Role:** Electrical Engineer

c

(1) TITLE AND LOCATION *(City and State)*
Electrical/UPS System Upgrades, Lake Whitney Hydropower Facility – Clifton, TX

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2015
CONSTRUCTION *(if applicable)*: 2016

(3) DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm
Scope: Our design team first conducted a site investigation to evaluate affected areas of the project, including the control room, motor generator/UPS room, battery room, and cable chase. A design charrette was then held with the onsite technical personnel at the hydropower facility to define the scope of work for the electrical systems upgrade task order. Close contact with these onsite personnel was maintained throughout the process, gaining valuable input from the end users. **Cost:** $3M **Role:** Electrical Engineer

d

(1) TITLE AND LOCATION *(City and State)*
Riverside National Cemetery, Phase 5 Design-Build, Riverside, CA

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: ONGOING
CONSTRUCTION *(if applicable)*: ONGOING

(3) DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☒ Check if project performed with current firm
Scope: Huitt-Zollars project assignment is to masterplan Phases 5-7, and to provide final design and construction of Phase 5. Phase 5 of the cemetery includes six new 30-car cortege lanes, a new satellite maintenance facility, a new satellite restroom, renovations to the administration building, a new records storage building, and new Public Information booth. **Cost:** $40M **Role:** Electrical Engineer

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
e	**USDA, APHIS Fruit Fly Rearing and Release Facility – Edinburg, TX**	2021	2023 (EST)

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

Scope: Planning, design and commissioning of a new, secure 120,000 SF 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. The contract also includes design, construction and warranty phase building commissioning services. Site design includes a new raw water service line to the existing water treatment plant that requires about 1.25-miles of pipeline from the base water supply reservoir, parking for 200 vehicles, two primary storm water detention ponds, and a utility services access road. **Cost:** $58M
Role: Electronic Engineer

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
Leonard Carthon, PE, RA, LEED AP	**Electrical Engineer**	**42**	**14**

15. FIRM NAME AND LOCATION *(City And State)*
MHZ JV – Fort Worth, TX

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
BS, Civil Engineering BS, Building Construction B. Arch	Professional Engineer (Electrical): TX: 53945; CO: 17040; GA: 17499

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, Etc.)*
Leonard's experience includes federal master planning, facilities planning, recreational planning, architecture, and electrical engineering. He has a diverse array of projects including facility planning, industrial and research campus planning, utilities master planning, environmental assessments and/or impact statements, and architectural and electrical facility design for research laboratories, explosives operations and containment facilities, and nuclear processing, storage, and handling facilities. He has also prepared or assisted in the preparation of energy studies, economic analyses, compliance studies, and feasibility studies.

19. RELEVANT PROJECTS

a

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
Goose Island State Park - Hurricane Harvey Repairs Rockport, TX	2020	2019

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

Scope: Provided professional A-E design for the preparation of construction documents, bidding and construction administration services to repair damage to facilities at Goose Island State Park in Rockport, Texas due to Hurricane Harvey in August 2017. The project scope included the following: Park's Headquarters Building window and lighting repairs; replacement of solar powered beacon lights at the breakwater area, repairs to the Warbler Way and Bayberry Camp Loop Restrooms, repair of the electrical load center, service panel, and lighting, replacement of louvers and replacement of lift station pumps and electrical components; Reconstruction of a more resilient 1,800 linear feet Fishing Pier to include replacement of lighting and ADA access; Repairs to irrigation system, pump and pump house for The Big Tree; and Restoration of the historic CCC Recreation Hall to include replacement of wood shingle roofing and clay roofing tiles.**Cost:** $1.5M **Role:** Electrical Engineer

b

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
Robinson Bayou Bank Stabilization – League City, TX	2014	2014

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

Scope: Provided professional services to the City of League City for proposed improvements to mitigate the earthen erosion problems along the tidally influenced Robinson Bayou from 100 feet upstream of Abilene Street to the FM 270 Bridge in League City, Galveston County, Texas. The project also involved the use of City-owned property adjacent to the bayou to help mitigate flows while providing pedestrian trails and a pedestrian bridge over Robinson Bayou to connect the trails within the City's easement to Walker Street and Texas Avenue. As part of the design, we widened the channel to create a pond that reduced flow velocities in the bayou. This pond area also created a nice amenity lake for recreational fishing. Our firm also designed a hike and bike trail as well as lighting along the bayou and a pedestrian bridge across the bayou connecting to the local neighborhood. We also acquired the appropriate US Army Corps of Engineers (wetland and stream mitigation), GLO, and TxDOT permits. **Cost:** $393K **Role:** Electrical Engineer

c

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
Damage Assessments for Galveston County Following Hurricane Harvey	2018	N/A

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

Scope: Damage assessments for the County's facilities and infrastructure including nearly 85 miles in length, 32 county buildings, one bridge, two county parks and one lift station. Final products included damage assessment reports and cost estimates. prepared damage assessments report and cost estimates. The final report was prepared using GIS database and geo-linked each damage assessment report with photographs. Coordinated and submitted all data to FEMA. **Cost:** $850K **Role:** Electrical Engineer

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
d	**El Franco Lee Park Wetland Enhancements - Harris County, TX**	2016	2017

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

Scope: The multi-award winning El Franco Lee Wetland Enhancement project is a Coastal Impact Assistance Program (CIAP) grant-funded project administered by the Texas General Land Office (TxGLO), which involved the U.S. Fish and Wildlife Service. Our Team provided preliminary engineering, final design, bidding and construction phase services for a new Boardwalk, Trail, Observation Tower, Education areas and Butterfly Garden around a wetlands area in El Franco Lee Park in Harris County, Texas. The project also involved coordination with the US Army Corps of Engineers for the Preliminary Jurisdictional Determination of Wetlands within the project area. Our team designed the observation tower, boardwalk, sampling pier, trails, butterfly garden, educational areas within the butterfly garden and along the trail system, drainage improvements, landscaping and wetland plantings, park and trail signage, rainwater-harvesting system, and an ornamental, solar powered fountain. **Cost:** $1.35M **Role:** Electrical Engineering Quality Control

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
e	**Kitty Hollow Park Expansion – Missouri City, TX**	2012	2014

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

Scope: Kitty Hollow Park is a 190 acre recreation park located in the Fort Bend County Parks & Recreation Department. The Kitty Hollow Park Expansion took an undeveloped area of an existing county park and added features to attract typical family activities (including the family dog). Huitt-Zollars provided a survey, schematic design layouts, design development and very limited construction documents. Kitty Hollow Park offers recreation options and amenities for the whole family. There are four pavilions, a fitness trail, three play areas for children, a fenced in dog park, a baseball field, two soccer fields, grills, covered picnic tables and benches, a lake and a fishing pier. **Cost:** $255K **Role:** Electrical Engineer

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
William Wallace, PE, SECB, MLSE	**Structural Engineer**	**43**	**9**

15. FIRM NAME AND LOCATION *(City And State)*
MHZ JV – Fort Worth, TX

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
MS, Civil Engineering BS, Civil Engineering	Professional Engineer (Structural): TX: 59641; FL: 79230; NM: 22715; OK: 27607; WA: 52055, NCEES, Structural Engineering Certification Board

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, Etc.)*
William has been involved in the design of many highly complex structures for civil works flood control and soil and water conservation construction programs for USACE and the Natural Resources Conservation Service (NRCS). Projects have included reinforced concrete hydraulic structures such as trapezoidal channel paving, rectangular channels, impact basins, drop structures, retaining walls, floodwalls, reinforced concrete principal and auxiliary spillways for lakes and dams, flood control tunnels, lift stations, and pump stations. William is a member of the Association of State Dam Safety Officials and has written papers, presented papers, and provided training to other structural engineers on the structural design of reinforced concrete hydraulic structures. William is also a voting member of ACI 350 committee, Structural Design of Environmental Concrete Structures.

19. RELEVANT PROJECTS

a

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
Dallas Floodway Extension Recreational Site Design – Dallas, TX	2019	2020

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

Scope: Wallace provided technical review and quality control oversight services in connection with structural design for improvements to facilities located at several federal recreational areas in Texas, including those at Granger Lake in central Texas and in connection with the Dallas Floodway Extension project. **Cost:** $10.5M **Role:** Structural Engineer

b

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
Cottonwood Creek Trail and Bank Stabilization – Allen, TX	2016	2016

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

Scope: A localized outcropping of highly weathered shale was eroding the toe of a slope, even during moderate storm events. The overburdened soil was giving away as the shale eroded. Nearly all vegetation holding the soil in place had been lost, and the popular trail was closed because of a safety rail failure. If the erosion was left unchecked, there were potential adverse impacts to an adjacent underground sanitary sewer main and a home bordering the project site. Our team completed the emergency design by utilizing collected data, and results from the geotechnical investigation. We performed alternative analysis performed alternative analysis, prepared concept plans and final construction bid documents within 59 days. In order to limit the project footprint, our team's solution relied considerably on soil and rock nails, shotcrete, and a cast-in-place wall; these features also met the permitting and hydraulic conveyance objectives. The project lies within a FEMA Zone AE floodplain with a defined floodway. **Cost:** $83K (fee) **Role:** Structural Engineer

c

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
Rush Creek Scour-Erosion Protection Design – Arlington, TX	2017	2017

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

Scope: Rush Creek has experienced significant erosion over the last several years. Rainfall events with sufficient magnitude to cause erosion have lately occurred more frequently than usual. The Creek has responded and the continued erosion is placing nearby public and private infrastructure at risk. Our team completed preparation of construction documents to modify a portion of the existing facility and to extend protection further downstream in order to stop the on-going erosion and threat to existing public infrastructure. The design repairs the existing eroded bank, facilitating protection of the adjacent residence. Hydraulic modeling (steady and unsteady) was performed to verify that the proposed project would not have an adverse impact to existing water surface elevations as the project lies within a FEMA Zone AE floodplain with a defined floodway. **Cost:** $128K (fee) **Role:** Structural Engineer

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
d	**Linear Park along Buffalo Bayou Greenway – Houston, TX**	2019	2020

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

Scope: Our team provided professional services for a new linear park along Buffalo Bayou Greenway from Hogg Bird Sanctuary to Shepherd Dr. in Houston, TX. The trail is a ten-foot wide concrete trail. The project includes three pedestrian bridges crossing over Buffalo Bayou. The three bridges are truss bridges with some upgrades on railing, decking, etc. to make it more ornamental. Bridge 1 and Bridge 3 are pre-fabricated single span steel pedestrian bridges, with minor aesthetics, and railing that mimic Bridge 2. There is also a hydraulic mitigation box culvert located at the downstream end of Bridge #1. **Cost:** $517K (fee) **Role:** Structural Engineer

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
e	**Wishing Tree (Del Amo Neighborhood) Park – Los Angeles County**	ONGOING	ONGOING

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

Scope: Park improvements included an administration/restroom building, a baseball field with soccer overlay, basketball court, football fields, synthetic-surfaced children's equipment play areas, and a parking lot. Storm drainage systems included "filterra" treatment inlets, vegetated swales, and extensive pipe systems. The project is owned and developed by the Los Angeles Neighborhood Land Trust, a non-profit organization, and will be maintained by LA County Dept. of Parks & Recreation. Permits and approvals were obtained from Los Angeles County Dept. of Public Works, Los Angeles County Fire Dept., Los Angeles Regional Water Quality Control Board, and California Water Company. **Cost:** $352K (fee) **Role:** Structural Engineer

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
Bob Yokum, PE	**Structural Engineer**	**46**	**9**

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

MHZ JV – New Orleans, LA

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
BS, Civil Engineering MS, Civil Engineering	Professional Engineer (Structural): LA: 21422

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

Mr. Yokum, a former USACE New Orleans District Structural Engineer, has over 45 years of experience providing structural design for Federal projects. Mr. Yokum specializes in designing flood risk reduction measures and has designed levees, walls, locks, gates and drainage structures for his entire professional career. Mr. Yokum developed the unbalanced load criteria used by USACE for all levee design.

19. RELEVANT PROJECTS

a

(1) TITLE AND LOCATION *(City and State)*: **Dallas Floodway Extension Recreational Site Design – Dallas, TX**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2020 — CONSTRUCTION *(if applicable)*: 2022 (EST)

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

Scope: The project consists of over 2 miles of concrete trails, multiple bridges, a raised wooden boardwalk to reduce maintenance events in higher prone flooding areas, bird watching platforms, parking lots and multiple gates and fencing. Mr. Yokum provided the structural bridge design for the large bridge crossing the Trinity River and the two smaller bridges crossing river tributaries. He also provided the pile design for the bird watching platform and the elevated boardwalk. **Cost:** $422K (fee) **Role:** Structural Engineer

b

(1) TITLE AND LOCATION *(City and State)*: **Western Return Floodwall Design – Kenner, LA**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2012 — CONSTRUCTION *(if applicable)*: 2014

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

Scope: Engineering design and construction phase services for the implementation of approximately 19,000 linear feet of I-Wall to T-Wall conversion, inclusive of Floodwall constructed below Interstate-10 and the incorporation of 84 inch diameter discharge tubes from a new pump station through the new T-Wall monoliths. Mr. Yokum was the designer of record for the project. He provided the pile foundation design for all monoliths of the new T-wall system. He also developed and provided the Unbalanced Load design criteria that are now used by USACE Districts nationwide for projects similar in nature to this one, where there is water on one side of the wall and land on the other. **Cost:** $3.7M (fee) **Role:** Designer of Record

c

(1) TITLE AND LOCATION *(City and State)*: **Cow Bayou Drainage Pump Station Complex – Orange, TX**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2020 — CONSTRUCTION *(if applicable)*: 2023 (EST)

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

Scope: The project involved completion of design services for an 8,800 CFS drainage pump station in Orange, TX for the USACE New Orleans and Galveston Districts. This new pump station is in a remote stretch of marsh, therefore complete site development was provided in addition to the pump station, safe house, floodwall, floodgate and utility design. Mr. Yokum was the lead structural engineer for the project. He provided the foundation design on piles for the pump station and floodwalls and provided structural details and standards for the pile supported access roads, parking lots and pump station safe house building. **Cost:** $2.1M (fee) **Role:** Lead Structural Engineer

d

(1) TITLE AND LOCATION *(City and State)*: **Lake Mechant Steel Sheetpile Plug No. 2 Replacement, Terrebonne, LA**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2020 — CONSTRUCTION *(if applicable)*: 2021

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

Scope: The project consists of replacing a 280' sheetpile structure that was damaged by a hurricane and is leaning over in the center, presenting a tremendous boater safety issue. The existing structure was demolished, and a new structure was placed in the project vicinity due to a large scour hole caused by the existing structure. Dredging was also part of the project scope. Mr. Yokum was the lead structural engineer for the project having designed the new structure to consist of a combi-wall concept of battered piles and sheetpile foundation with cross bracing and new project signage for boater safety. **Cost:** $467K (fee) **Role:** Lead Structural Engineer

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
John Poole, III, PE, FSFPE	**Fire Protection Engineer**	**35**	**30**

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

Poole Fire Protection, Inc. – Olathe, KS

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
BS, Fire Protection Engineering	Professional Engineer (Fire Protection): AR: 12651; CO: 37354; IA: 17321; KS: 12095; MO: 025232; NE: E-10455

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

NFPA Committees: Airport Facilities (AIS-AAA), NFPA 409, 415 & 423 - Principal; Detention and Correctional Occupancies (SAF-DET), NFPA 101 - Principal; Detention and Correctional Occupancies (BLD-DET), NFPA 5000 - Principal; Electronic Computer Systems (ETL-AAA), NFPA 75 - Principal; Health Care Emergency Management and Security (HEA-HES), NFPA 99 - Principal; Helicopter Facilities (HHH-AAA), NFPA 418 - Principal; Marinas and Boatyards (MAR-AAA), NFPA 303 - Principal; Notification Appliances for Fire Alarm and Signaling Systems (SIG-NAS) - Alternate; Protected Premises Fire Alarm and Signaling Systems (SIG-PRO), NFPA 72 - Chair; Signaling Systems for the Protection of Life and Property (SIG-AAC), NFPA 72 & 720 - Nonvoting Member; Subterranean Spaces (SUB-AAA), NFPA 520 – Chair; Other Committees/Boards: NFPA Aviation Board of Directors, University of Maryland Fire Protection Engineering Board of Visitors, University of Maryland Fire Protection Engineering Curriculum Advisory Committee, Oklahoma State University Fire Protection Advisory Board, SFPE National Education Committee; Organizations: ABPA, AFSA, BOCA, ICC, NFPA, NFSA, NSPE, SAME, SFPE

19. RELEVANT PROJECTS

a

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
Sleeping Bear Dunes – Empire, MI	2021	N/A

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

Scope: Team completed Fire Protection Condition Assessments (FPCAs) for two National Park Services buildings at Sleeping Bear Dunes National Lakeshore in Empire, Michigan. The data generated from these assessments will be used to guide rehabilitation project scoping for these two facilities, to ensure that life safety upgrades are included in the planned building modifications. Work consisted of travel to the park site, performance of on-site inspections of each building within the scope of the contract, development of a Life Safety and Fire Protection Risk Assessment report detailing findings and recommended corrective actions, and coordination with the AHJ as to which deficiencies should be costed and completing Class C cost estimates. **Cost:** $26,496 **Role:** Engineer of Record

b

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
Natchez National Historical Park – Natchez, MS	2012	N/A

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

Scope: Our team completed Fire Protection Condition Assessments (FPCAs) for NPS buildings and an inventory of all of the fire protection systems in the building at the Natchez National Historical Park in Natchez, Mississippi. The data generated from these assessments was used to generate baseline Facility Condition Indices (FCI) for the NPS as well as to help estimate annual ITM costs for their installed fire protection systems. Work consisted of travel to the park sites, performance of on-site inspections of each building within the scope of the contract, documentation of inspection data via a web based reporting database, coordination with the AHJ as to which deficiencies should be costed, completing Class C estimates, and providing an executive summary of assessments detailing significant deficiencies. **Cost:** $23,996 **Role:** Engineer of Record

c

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
Golden Gate National Recreation Area - Sn Francisco, CA	2011	N/A

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

Scope: Our team completed Fire Protection Condition Assessments (FPCAs) for NPS buildings and an inventory of all of the fire protection systems in the building at Golden Gate National Recreation Area in San Francisco, California. The data generated from these assessments was used to generate baseline Facility Condition Indices (FCI) for the NPS as well as to help parks estimate annual ITM costs for their installed fire protection systems. Work consisted of travel to the park sites, performance of on-site inspections of each building within the scope of the contract, documentation of inspection data via a web based reporting database, coordination with the AHJ as to which deficiencies should be costed, completing Class C estimates, and providing an executive summary of assessments detailing significant deficiencies. **Cost:** $36,756 **Role:** Engineer of Record

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
d	**Yellowstone National Park – Yellowstone National Park, WY**	2011	N/A

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

Scope: Our team conducted fire protection, fire prevention, life safety and fire fighting capability inspections at Yellowstone National Park to survey 249 buildings of varying size, use and age. The information gathered during the site visits was utilized to access the overall structural fire safety at the representative sites. This information was interpolated to other facilities of a similar use and size, in order to provide an overall assessment of the buildings and structures. The information gathered was based on the NPS Fire Inspection/Analysis inspection form and the intent of the inspections as prescribed by NPS. At the completion of all services required above, a final package consisting of electronic copies of all inspection/analysis forms, database files and any related findings was prepared by the project team for delivery to NPS. **Cost:** $59,500 **Role:** Engineer of Record

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
e	**P-192 Water Treatment – Twentynine Palms, CA**	ONGOING	N/A

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

Scope: Our team serving as the Qualified Fire Protection Engineer (QFPE) per UFC 3-600-01, Section 1-7 for the 18,862 SF P192 Potable Water Treatment / Blending Facility at Marine Corps Combat Center Twentynine in Palms, CA. The facility is the largest air/ground combat center, occupies approximately 1,100 square miles and has a net production capacity of 3 million gallons per day, meeting all applicable Federal and State regulations. Services include performing building code and life safety code analysis, developing the Fire Protection/Life Safety Design Analysis, and Life Safety Plans in accordance with IBC and NFPA applicable codes and standards. Poole Fire Protection provided the complete fire protection engineering design and review services for the water based fire suppression system and fire alarm/mass notification systems. Fire suppression systems include wet pipe sprinkler systems, fire alarm systems and fire pumps. Construction services include shop drawing review and approval, response to RFI's, site visits to observe installation of the systems and preliminary and final testing of the fire protection systems. Deliverables were produced in AutoCAD and Autodesk REVIT (BIM). **Cost:** $103,465 **Role:** Engineer of Record

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
John Haas, PE	**Geotechnical Engineer**	**12**	**5**

15. FIRM NAME AND LOCATION *(City And State)*
Terracon Consultants, Inc. – Wheat Ridge, CO

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
BS, Aerospace Engineering	Professional Engineer (Geotechnical): CO: 0050446; WI: 43343; MN: 51519

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, Etc.)*
Mr. Haas is a project engineer and the Geotechnical Department Manager for Terracon's Denver office. He has over ten years of industry experience and specializes in pavement design for transportation and infrastructure projects, shallow and deep foundation design for vertical structures, slope stability analysis for retaining walls and slopes, and deep foundation design for bridges. He has served as a construction materials technician, so he has a deep understanding of every project component.

19. RELEVANT PROJECTS

a

(1) TITLE AND LOCATION *(City and State)*
USACE Fort Logan National Cemetery Roadway Improvements – Denver, CO

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2019	2019

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

Scope: Mr. Haas was the project engineer for the 2019 roadway improvements project for existing roadways within Fort Logan National Cemetery in Denver, Colorado. The project consisted of evaluation of the existing pavements within the cemetery for potential rehabilitation. Terracon provided recommendations relative to existing pavement thickness, subsurface soil conditions, groundwater conditions and laboratory testing for subgrade properties and strengths. **Cost:** $29,000 (fee) **Role:** Project Engineer

b

(1) TITLE AND LOCATION *(City and State)*
Camp George West Pavement Evaluation Golden, CO

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2019	2019

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

Scope: Mr. Haas was the project engineer for the 2019 pavement evaluation project for existing roadways within Camp George West in Golden, Colorado. The project consisted of evaluation of the existing pavements within the campus for potential rehabilitation. In addition to obtaining asphalt cores of existing pavements, Terracon also performed Ground Penetrating Radar (GPR) with in-house equipment to obtain correlated pavement thickness across all pavements within the campus. Terracon provided recommendations relative to existing pavement thickness, subsurface soil conditions, groundwater conditions and laboratory testing for subgrade properties and strengths. **Cost:** $30,000 (fee) **Role:** Project Engineer

c

(1) TITLE AND LOCATION *(City and State)*
Landslide Evaluation of North Walnut Creek Slump – Rocky Flats, Jefferson County, CO

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
ONGOING	N/A

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

Scope: Mr. Haas performed the slope stability analysis for the evaluation and conceptual stabilization design of a landslide located at Rocky Flats. He was responsible for the engineering analysis of global stability as well as modeling and determining the feasibility of optional stabilization alternatives. This evaluation included assessing initial construction costs and projected maintenance costs over a 75-year design life. The landslide was approximately 5-acres and extended to depths of approximately 40 feet. **Cost:** $200,000 (fee) **Role:** Project Engineer

d

(1) TITLE AND LOCATION *(City and State)*
Peña Boulevard Preliminary Pavement Evaluation Denver International Airport – Denver, CO

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
ONGOING	ONGOING

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

Scope: Mr. Haas performed a pavement evaluation for Airport Infrastructure Management – Development (DEN) to aid in DEN's design-build project for proposed improvements to Pena Boulevard between Gun Club Road and the airport terminals. Mr. Haas performed the pavement evaluation using the Mechanistic-Empirical Pavement Design (MEPD) methodology required by DEN and the Colorado Department of Transportation (CDOT). The project included evaluation of a proposed bus-only lane that is anticipated to experience over 135 million Equivalent Single Axle Loads (ESALs) over its design life. **Cost:** $150,000 (fee) **Role:** Project Engineer

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
Sean P. McNamara, PE	**Environmental Engineer**	**30**	**23**

15. FIRM NAME AND LOCATION *(City And State)*
AH Environmental Consultants, Inc. – Newport News, VA

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
ME, Environmental Engineering, BE, Civil Engineering	Professional Engineer (Environmental): VA: 026195, GA: 030213, NC: 32321, SC: 23928, TX: 106488, FL: 72849, CT: 30642, MD: 50374, AZ: 69306

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, Etc.)*
Member, ASCE, SAME • 24-hour HAZWOPER • Contributing Chapter Author WEF MOP 8 (2nd edition)

19. RELEVANT PROJECTS

a

(1) TITLE AND LOCATION *(City and State)*
Evaluation of the Upper Base Wastewater Treatment Plant (WWTP) – Naval Submarine Base Kings Bay, GA

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2020 — CONSTRUCTION *(if applicable)*: N/A

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

Scope: Responsible for review of all deliverables for technical quality, coordinating independent technical review and proper printing and assembly. The project included an evaluation of options to modernize a 30+ year old facultative lagoon WWTP. AH performed liner integrity testing, and completed a condition assessment report recommending replacement or repair of many elements of the system, including the headworks, lagoon liners, filters, and disinfection system. **Cost:** $517K **Role:** Environmental Engineer

b

(1) TITLE AND LOCATION *(City and State)*
Wastewater Treatment Plant Upgrades, WWTP No. 2 – Fort Huachuca, AZ

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2018 — CONSTRUCTION *(if applicable)*: N/A

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

Scope: Responsible for staffing, management, review of all deliverables for technical quality, coordinating independent technical review and proper printing and assembly. The project consisted of several months of pilot studies where WWTP was retrofitted with mixers pumps, temporary pipelines, and supplemental air. With these changes, WWTP No. 2 was able to achieve TN levels as low as 4 mg/L. **Cost:** $647K **Role:** Environmental Engineer

c

(1) TITLE AND LOCATION *(City and State)*
Asbestos Inspections, Marine Corps Base – Camp Lejeune, NC

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2021 — CONSTRUCTION *(if applicable)*: N/A

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

Scope: 20 projects since 2000 for initial inspections and reinspections of over 4,000 structures at Camp Lejeune Each annual project includes updating the computerized records system and providing postings in each building documenting the survey results **Cost:** $104K (latest project) **Role:** Environmental Engineer

d

(1) TITLE AND LOCATION *(City and State)*
Wastewater Treatment Plant and Force Main Design - Naval Station (NS) Mayport, FL

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2017 — CONSTRUCTION *(if applicable)*: N/A

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

Scope: Overall management of the design of a new 1.2 MGD Advanced WWTP. The plant was designed to manage the highly variable salinity of the influent (2 to 20 parts per thousand), while maintaining the biomass that was capable of operating in a range of 2.5 to 7.5 ppt. The plant also includes a metals polishing process due to extremely low permit limits for nickel and copper. Responsible charge for design of three influent force mains as part of the design effort. **Cost:** N/A **Role:** Environmental Engineer

e

(1) TITLE AND LOCATION *(City and State)*
Wastewater Pump Station Resilience Program, Newport News, VA

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2021 — CONSTRUCTION *(if applicable)*: N/A

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

Scope: Conducted the first phase of a program to assess the City of Newport News wastewater collection system infrastructure. The project entailed evaluating the resiliency of over 190 wastewater pumping stations in conformance with America's Water Infrastructure Act (AWIA) Section 2018. The evaluation identified the 15 most critical wastewater pump stations in the collection system that, upon failure, would result in the most significant environmental damage, health hazard, disruption to the public, incur costs to businesses and/or result in permit violations and fines. The most critical pump stations were field assessed and a resiliency report was prepared defining the pump station conditions and required improvements to reduce the risks of failure using EPA's Vulnerability Self-Assessment Tool (VSAT™). **Cost:** $100K **Role:** Environmental

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
Robert Armstrong, PE, CFM	**Hydrologist**	**34**	**16**

15. FIRM NAME AND LOCATION *(City And State)*
MHZ JV – Dallas, TX

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
BS, Civil Engineering	Professional Engineer (Civil): TX: 87107; NE: E7244; OK: 21127; WA: 43982; Certified Flood Manager: TX: 2838-15N

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, Etc.)*
Rob has more than 30 years of experience 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. His professional experience covers a wide range of engineering projects and spans all phases from master planning to design. His breadth and depth of expertise includes general civil engineering to mathematical modeling of dynamic hydraulic simulation of complex systems. He is an expert in hydraulic modeling using leading edge technologies such as InfoWorks to model river systems, storm drainage systems, wastewater collection systems, and combined sewer systems.

19. RELEVANT PROJECTS

a

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
Cottonwood Creek Trail and Bank Stabilization – Allen, TX	2016	2016

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

Scope: A localized outcropping of highly weathered shale was eroding the toe of a slope, even during moderate storm events. The overburdened soil was giving away as the shale eroded. Nearly all vegetation holding the soil in place had been lost, and the popular trail was closed because of a safety rail failure. If the erosion was left unchecked, there were potential adverse impacts to an adjacent underground sanitary sewer main and a home that bordering the project site. Our team completed the emergency design by utilizing collected data, and results from the geotechnical investigation. We performed alternative analysis performed alternative analysis, prepared concept plans and final construction bid documents within 59 days. In order to limit the project footprint, our team's solution relied considerably on soil and rock nails, shotcrete, and a cast-in-place wall; these features also met the permitting and hydraulic conveyance objectives. The project lies within a FEMA Zone AE floodplain with a defined floodway. **Cost:** $83K (fee) **Role:** Hydrologist

b

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
Rush Creek Scour-Erosion Protection Design – Arlington, TX	2017	2017

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

Scope: Rush Creek has experienced significant erosion over the last several years. Rainfall events with sufficient magnitude to cause erosion have lately occurred more frequently than usual. The Creek has responded and the continued erosion is placing nearby public and private infrastructure at risk. Our team completed preparation of construction documents to modify a portion of the existing facility and to extend protection further downstream in order to stop the on-going erosion and threat to existing public infrastructure. The design repairs the existing eroded bank, facilitating protection of the adjacent residence. Hydraulic modeling (steady and unsteady) was performed to verify that the proposed project would not have an adverse impact to existing water surface elevations as the project lies within a FEMA Zone AE floodplain with a defined floodway. **Cost:** $128K (fee) **Role:** Hydrologist

c

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
Montalvo Canyon Channel Restoration – City of San Clemente, California	2017	N/A

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

Scope: The service scope included preparation of a concept study including hydrologic, hydraulic, sediment transport, and channel restoration of a reach of Montalvo Canyon near its outlet to the Pacific Ocean. The analysis includes investigation of recent movement of the stream into an adjacent bluff that supports condominiums overlooking the Pacific Ocean. The study resulted in the preparation of alternatives and selection of a preferred design concept to restore the stream channel, protect the bluff, and obtain jurisdictional permits. **Cost:** $25K (Fee) **Role:** Hydrologist

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
d	**Santiago Creek Emergency Creek Bank Repairs, Modjeska Arden Historic Site - Orange County Parks, California**	2011	N/A

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

Scope: During a single storm event in the winter of 2010, Santiago Creek widened and shifted, moving laterally approximately 40 feet and placing the Modjeska Arden National Historic site in jeopardy. Orange County Parks requested our assistance in developing emergency plans to restore the stream and to protect the historic site from the risk of additional Santiago Creek lateral migration and widening. The creek was responding to changes within the basin resulting from fires that burned most of the tributary area. The ensuing sediment load created significant profile and planform changes to the stream. Our team's task was to develop a solution that respects the natural, though relatively short-term, geomorphologic changes occurring in the stream while also preserving a national treasure. Armstrong provided oversight of the hydraulic analysis, geomorphologic assessment, and detailed design, working closely with the Orange County Parks supervisor to find a solution that met the project objectives while also receiving agency approval for the emergency actions within the stream. **Cost:** $27K (fee) **Role:** Hydrologist

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
e	**Irvine Regional Park Drainage Improvements – Orange County, CA**	2015	N/A

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

Scope: Preparation of studies and improvement plans that included infiltration BMPs and biofiltration BMPs to remove pollutants from the OC Zoo and from the adjacent SR-241. Multi-benefit basins include flow diversion and detention structures that mitigate existing flooding at the Zoo. HZ prepared hydrology studies, flood routing alternatives, and 50% Plans and Estimates. HZ helped OC Parks receive a $1.4 Million Grant from OCTA for Measure M2 Environmental Cleanup Program Tier2. **Cost:** $2M **Role:** Hydrologist

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
Tom Willis, PE	**Hydrologist**	**41**	**7**

15. FIRM NAME AND LOCATION *(City And State)*
MHZ JV – New Orleans, LA

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
BS, Civil Engineering MA, Business Administration	Professional Engineer: (Civil): LA: 24205

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, Etc.)*
Mr. Willis is a Senior Hydraulic Engineer with 40 years of experience. At MSMM he conducts civil engineering design and hydrologic and hydraulic (H&H) analyses of the stormwater drainage systems associated with roadways, bridges, highways, and airports in Louisiana and Texas. Mr. Willis has extensive experience with 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)*
Southern University Drainage Outfall Ravine And Riverbank Instability Study – Baton Rouge, LA

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2020
CONSTRUCTION *(if applicable)*: N/A

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

Scope: Development of a Planning Assistance to the States Project through the USACE New Orleans District to address human safety issued plaguing the Southern University campus in Baton Rouge, LA. Mr. Willis ran a HEC-RAS model and developed project alternatives to address erosion problems at the following campus areas: Scott's Bluff bank erosion, Army and Navy ROTC sinkholes, paving repairs and ravine side deterioration area, Batanco-Hill health center perimeter and outfall bank land-loss areas and the outfall ravine lower reach channel degradation area. **Cost:** $180K (fee) **Role:** Hydrologist

b

(1) TITLE AND LOCATION *(City and State)*
Dallas Floodway Extension Recreational Site Design – Dallas, TX

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2020
CONSTRUCTION *(if applicable)*: 2022 (ANTICIPATED)

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

Scope: The project consists of over 2 miles of concrete trails, multiple bridges, a raised wooden boardwalk to reduce maintenance events in higher prone flooding areas, bird watching platforms, parking lots and multiple gates and fencing. Mr. Willis prepared a HEC-RAS modeling evaluation of the proposed large pedestrian bridge crossing of the Trinity River. He ran two separate models of the Trinity River. For one he ran an analysis of the 2, 5, 10, 25, 50 and 100- year storm events. For the second model, he developed the analysis of the 500-year and Standard Project Flood (SPF) events. **Cost:** $422K (fee). **Role:** Hydrologist

c

(1) TITLE AND LOCATION *(City and State)*
New Orleans International Airport Drainage Evaluation Study – New Orleans, LA

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2018
CONSTRUCTION *(if applicable)*: 2019

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

Scope: This federal project determined the runoff contribution of construction a new airport facility at the New Orleans International Airport, and determined the incremental runoff generated by the overall airport facility. Mr. Willis adopted existing hydraulic models (3 models in total) and supplemented them with newly collected field data and record data to create a new airport model. The model was utilized to design airside and landside drainage features including more than five miles of drainage piping ranging in sizes from 12" to 72", open channels, box culverts, headwalls, new canal connections and a 600 cfs drainage pump station. **Cost:** $480K (fee) **Role:** Hydrologist

d

(1) TITLE AND LOCATION *(City and State)*
Stormwater Watershed Management Plan – Jefferson Parish, LA

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2021
CONSTRUCTION *(if applicable)*: N/A

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

Scope: Through the Federal Silverjackets program and the USACE New Orleans District, the purpose of this project is to provide an assessment of how flood stages will be affected by project changes in future ran and sea-level conditions and to recommend strategies for mitigating increased flood loss damages caused by the projected environmental changes. Mr. Willis performed the hydraulic modeling utilizing the EPA SWMM model to determine the existing and future conditions on over 50-percent of Jefferson Parish. Comparative future conditions were assessed using NOAA's intermediate Sea Level project which anticipates a 5.8-feet rise in sea level. The SWMM numerical hydrologic-hydraulic models were then used to assess impacts and a complete findings and recommendations report was provide to USACE and the Parish. **Cost:** $260K (fee) **Role:** Hydrologist

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	**Cost Engineer**	**36**	**6**

15. FIRM NAME AND LOCATION *(City And State)*
MHZ JV – New Orleans, LA

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
AAS, Mechanical Engineering AAS, Electro-Mechanical Engineering	Certified Value Specialist (CVS): #201203044 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 proficient in estimating using RS Mean and other costing software.

19. RELEVANT PROJECTS

a

(1) TITLE AND LOCATION *(City and State)*: **Granger Lake Management Office Replacement – Granger, TX**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2019 — CONSTRUCTION *(if applicable)*: 2021

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

Scope: The project consisted of the development of a construction package consisting of design plans for new construction of a 6,000 SF lake management facility and demolition of the existing facility. This facility is located at a Federally maintained and operated Lake just North of Austin, TX. Mr. Daigle provided the MCACES and PACES cost estimating for the project. He attended the design charrette and developed the initial PACES estimate at the charrette to provide USACE with a conceptual idea of initial cost. He also completed multiple iterations of MCACES estimates including the final estimate. **Cost:** $358K (fee) **Role:** Cost Engineer

b

(1) TITLE AND LOCATION *(City and State)*: **Dallas Floodway Extension Recreational Site Design – Dallas, TX**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2020 — CONSTRUCTION *(if applicable)*: 2022 (EST)

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

Scope: The project consists of over 2 miles of concrete trails, multiple bridges, a raised wooden boardwalk to reduce maintenance events in higher prone flooding areas, bird watching platforms, parking lots and multiple gates and fencing. Mr. Daigle completed the detailed MCACES cost estimating using RS Means data for this project. He provided detailed estimates and workbooks for the 65%, 95% and 100% design submittals. The project was bid less than 3% below his final estimate. **Cost:** $422K (fee). **Role:** Cost Engineer

c

(1) TITLE AND LOCATION *(City and State)*: **Cow Bayou Drainage Pump Station Complex, Orange, TX**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2020 — CONSTRUCTION *(if applicable)*: 2023

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

Scope: The project involved completion of design services for an 8,800 CFS drainage pump station in Orange, TX for the USACE New Orleans and Galveston Districts. This new pump station is in a remote stretch of marsh, therefore complete site development was provided in addition to the pump station, safe house, floodwall, floodgate, and utility design. Mr. Daigle completed detailed cost estimating utilizing RS Means data and local reasearch for this large construction project that costs over $340M. He also provided conceptual level cost estimating using RS Means. **Cost:** $2.1M (fee) **Role:** Cost Estimator

d

(1) TITLE AND LOCATION *(City and State)*: **Timber Creek Recreational Facility Design – Travis County, TX**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2020 — CONSTRUCTION *(if applicable)*: 2021 (EST)

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

Scope: This federal project designed for USACE Ft. Worth District turned a former neighborhood located in a flood zone into a recreational park consisting of trails, trail head connectors, shelters, picnic tables, roadway and parking areas, and sports courts. Mr. Daigle provided detailed cost estimating for this project utilizing MCACES. He provided detailed cost estimates and backup workbooks with each design submittal. **Cost:** $356K (fee) **Role:** Cost Estimator

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
Chris Scott, RLA, ASLA, CNU-a	**Landscape Architect**	**30**	**13**

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

MHZ JV – Dallas, TX

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
BLA, Landscape Architecture	Registered Landscape Architect: WA: 1065; NM: 398; CO: LA.0000904; CA: 5316; TX: 1976; OR: LA0633

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

Chris Scott is the team leader for Planning and Landscape Architecture in the HZ Dallas office. He has extensive experience in all areas of landscape design, including a focus in parks and recreation development on a regional, community, and neighborhood scale. Specialty park experience includes athletics, aquatic, cultural and environmental parks. Details of his experience include master planning of parks, hike and bike trail systems, streetscapes and right-of way beautification from a few acres to several hundred acres.

19. RELEVANT PROJECTS

a

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
Cedar Hill State Park Flood Repairs and Utility Replacements – Cedar Hill, Texas	2019	2019

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

Scope: Prepared a new master plan for the Day Use Area and to design: Stabilization of up to 4,000 linear feet of the eroded shoreline; Landscaping, Grading and Revegetation; Trails and sidewalks; Replacement for Comfort Station (CS) #7; Renovation of CS Nos. 6 and 9; Two (2) new CS at the boat ramp and near the fishing pier; a New Group Recreation Hall; New swim area with an ADA accessible route; New picnic tables with reinforced concrete slabs and shelters; New playground and equipment; Replacement of a lift station and grinder pumps; Electrical and IT services and New and Replacement waterlines and sanitary sewer force mains. **Cost:** $952K (fee) **Role:** Landscape Architect

b

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
Memorial Park at the Brazos River – Sugar Land, Texas	2016	2017

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

Scope: Landscape Architect for the master plan and final design of this 420-acre regional park along the Brazos River in Sugar Land, Texas. The park was constructed entirely within the floodway of the Brazos River and has jurisdictional wetlands within its boundaries. Scope of services included topographic and aerial LIDAR surveying, environmental assessment, wetlands delineation, threatened and endangered species assessment, coordination and permitting with the U.S. Army Corps of Engineers, archeological investigations, hydraulic and hydrologic engineering and development of a conceptual park master plan. Design elements included revenue-generating pavilions, restrooms, picnic shelters, playgrounds, multi-purpose sports fields, large and small dog parks, 2.5 miles of shared-use trails, canoe launch, landscaping and irrigation, reforestation, lighting, emergency call boxes, waterlines, sanitary sewer lines, storm sewer, replenishment of wetland areas, electrical service, operating windmills, a stone creek water feature and three (3) 25-acre lakes. **Cost:** $2.5M **Role:** Landscape Architect

c

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
Soos Creek Trail – King County, WA	2018	ONGOING

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

Scope: Scott served as Landscape Architect for the current phase of this project, which encompasses the final section of trail from SE 192nd Street in King County to the Renton Maple Valley Highway (SR-169), where it connects to Cedar River Trail. The design required *sensitivity to critical protected areas of streams used for seasonal spawning salmon and steelhead and a resident trout population as well as wetland areas.* Considerable coordination with adjacent suburban development that made erosion control issues a major concern, as well as with multiple environmental agencies with jurisdiction, as well as city and utility companies. **Role:** Landscape Architect

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
d	**Arrow Brooke Park – Aubrey, TX**	2019	2020

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

Scope: Arrow Brooke is a 13-acre master-planned community park located in Denton County just north of U.S. Highway 380 on FM 1385. Arrow Brooke Park has been master planned and developed for the Denton County Fresh Water Supply District #10. As Project Manager, Mr. Scott lead a team to develop 3 soccer fields, a football field, a baseball field, hike and bike trails, family pavilion, restrooms and concessions facility, dog park, playgrounds and other park site amenities. The park also features a water efficient permanent irrigation system for sodded fields and play areas, and temporary irrigation system for establishing Black Land prairie grasses and naturalized areas. **Cost:** $2.5M **Role:** Project Manager

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
e	**Cottonwood Creek Trail and Bank Stabilization – Allen, TX**	2016	2016

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

Scope: A localized outcropping of highly weathered shale was eroding the toe of a slope, even during moderate storm events. The overburdened soil was giving away as the shale eroded. Nearly all vegetation holding the soil in place had been lost, and the popular trail was closed because of a safety rail failure. If the erosion was left unchecked, there were potential adverse impacts to an adjacent underground sanitary sewer main and a home bordering the project site. Our team completed the emergency design by utilizing collected data, and results from the geotechnical investigation. We performed alternative analysis performed alternative analysis, prepared concept plans and final construction bid documents within 59 days. In order to limit the project footprint, our team's solution relied considerably on soil and rock nails, shotcrete, and a cast-in-place wall; these features also met the permitting and hydraulic conveyance objectives. The project lies within a FEMA Zone AE floodplain with a defined floodway. **Cost:** $83K (fee) **Role:** Landscape Architect

PART I, SECTION F
EXAMPLE PROJECTS

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT
(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER: **1**

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Granger Lake Management Office Building Design *Granger, TX*	2019	2021

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
USACE Fort Worth District	Sharon Leheny, Project Manager – Sharon.v.leheny@usace.army.mil	817-886-1563

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

Example of Major Project Type: Architectural Services	• Administrative Building Design • Visitor Center Design • Seismic Engineering	• Sustainable Design Features • Accelerated Design Schedule

The Granger Lake Management staff required a new administrative office facility due to the presence of black mold that covered the entire front building walls due to moisture penetration. They had a key list of design criteria that our staff designed to, which included: a large conference room designed to accommodate up to 80 people while serving as a volunteer room during non-meeting times, a scenic view of Granger Lake from the conference room, increased water pressure from their old facility, and a large grandiose lobby area made to feel like the public was entering a lodge, complete with artifacts, a mammoth pelvis and animal mounts that were found on the Lake property. The client also required that the project schedule be cut by two months in order to facilitate the obligation of Recreational Funds before the end of the 2019 Fiscal Year. In order to do this, our project team coordinated directly with the local water purveyor and sewer permitting districts to expedite the filing, review and approval of the septic permit, and for the immediate construction of a pipe size increase and extension of a waterline to provide the site with increased water pressure and availability.

The resulting design package was completed before the end of the Federal fiscal year in 2019, and consisted 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 is one story and was designed for approximately 4,856 SF in gross area. The ***new construction inclusive of Architectural Services and all other required disciplines (i.e. electrical/mechanical/ fire protection/life safety/civil/structural).*** Design activities also included the design of ***landscaping, new paving, paving repairs, and force protection***. The new facility houses 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.

As to sustainability features, the building is oriented with the long sides facing north/south and the narrow sides facing east/west. The lake view is toward the south while the view north is of the parking areas and the neighboring property beyond. All of the windows and glass doors feature double paned glass separated by an air space with a Low- E coating on the inner face of the outer glass panel – all for maximum energy efficiency. As the largest windows are facing south towards the view, USACE plans to add a covered porch in the near future along the south facing portion of the building to block out the direct southern sun. The north facing windows within the Multi-Purpose Room are located high on the wall under the roof overhang. The entrance doors and windows are protected by an exterior rain/sun shading overhang. The east and west elevations have minimum fenestration. The four office windows facing south have Bahama shutters. Closed cell foam insulation is used in the walls and roof for maximum insulation value. The roof system includes a bright galvanized metal roof that increases the roof's solar reflectance index value.

The Prime completed all of the mechanical design for this facility. The mechanical design consisted of heating, ventilating, air conditioning, refrigeration, energy, piping and plumbing systems. Mechanical design for the facility

complied with the following codes: International Mechanical Code (IMC), International Plumbing Code (IPC), National Fire Protection Association (NFPA), Sheet Metail and Air Conditioning Contractors National Association (SMACNA), American Society of Heating, Refrigerating and Air Conditioning (ASHRAE) and the Americans with Disabilities Act (ADA). For HVAC, the facility was designed to utilize a standard split system style direct expansion system with indoor air handling units and outdoor condensing units with one system dedicated to providing conditioned outside air to the space. The indoor units utilize electric heat strips for winter conditions. Generally, the building was designed to be conditioned by multiple direction expansion coil type air handing units with electric heat.

For exhaust, the Men and Women restrooms, Janitor Room, and Lobby restroom exhaust system were all designed to discharge through a single roof penetration located near the restrooms.

Sanitary sewer was designed so that al sewer waste dischare to a single point located along the North end of the building. The following sanitary sewer fixtures were included with the design package: Two Compartment Sink (Break Room -1), Lavoratories (Women, Men and Lobby Restrooms – 5), Flush Valve Water Closets (Woman, Men and Lobby Restrooms – 6), Floor Drains (Women, Men and Lobby Restrooms – 4), Urinal – Flush Valve (Men Restroom), High/Low Drinking Fountain (Rear Lobby – 1), Service Sink (Janitor Closet -1), Condensate Discharge from AHU's located above celing – 2, and discharge from the ice machine (break room – 1).

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
MSMM Engineering	New Orleans, LA	Prime: Architecture, Civil, Structural, and MEP
(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
Huitt-Zollars, Inc.	Fort Worth, TX	Sub: Civil, Structural, and ITR

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT
(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER: **2**

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Mud Mountain Dam Fish Trap and Haul Design *Enumclaw, WA*	2018	2021

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
USACE Seattle District	Leah Hauenstein	(206) 316-3169

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

Example of Major Project Type: Fisheries Engineering

- Trap and haul facility
- Release site engineering
- Temporary fish passage
- Fish ladders/support systems
- Adult fish facilities/attraction
- Site investigations
- Fish Barriers
- Accelerated Design Schedule
- Coordination with Native American Tribes

The Mud Mountain Dam Fish Passage Facility on the White River is designed to be the largest fish passage facility in the world, designed to move 60,000 fish per day. Tetra Tech, as prime consultant and project manager, was responsible for coordination of the multi-disciplinary project team, including multiple subconsultants. Tetra Tech developed a project workplan, project schedule, and quality management plan and followed them to complete the project within budget and on an aggressive schedule. The project includes a collaborative team from Seattle, Walla Walla, and Portland USACE Districts in conjunction with the Tetra Tech team.

Tetra Tech's multidisciplinary design team provided plans, specifications, detailed design report, and the O&M outline for the trap and haul facility, release site improvements, temporary trap and haul facility, and deconstruction and demolition of the existing facility subsequent to successful operation of the new facility.

The trap and haul facility system will lift fish from the presort pools, pass them through a visual flume sorting system (and routing flumes) that allow for species identification and sorting including PIT and Coded Wire Tags detection, then either direct loads them to transport trucks or moves the fish to a research, monitoring, and evaluation (RM&E) facility. Fish that pass through the RM&E facility are then moved from the transfer tanks to trucks for release back to the river.

The Tetra Tech team provided site investigations of the existing facility and evaluated alternative designs to lift fish from the presort pools, selecting the Archimedes screw type fish lift as the preferred alternative. The studies also looked at juvenile fish entering the facilities, but determined it was a low likelihood.

The release site improvements include a new release chute and foundation system that will enable two trucks to release fish concurrently. The chutes are designed to be quickly removed during high water events, and easily put back in place when needed. New 5,000-gallon tanker trailers were designed, keeping similar top loading and release configurations so that either the existing 1,200 gallon or new 5,000-gallon trucks can be utilized to transport the fish. A through-put analysis was conducted to determine the necessary delivery rate of fish into truck tanks, which was combined with the transportation analysis of round-trip times for trap/haul and daily fish numbers.

The Tetra Tech team also performed a value engineering study, assessment of dam operations, and prepared a 3-D model of the fish passage facility. The Tetra Tech team participated in the USACE led cost/risk analysis. This project required close coordination with the Muckleshoot Indian Tribe, Puyallup Indian Tribe, and Cascade Water Alliance.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
Tetra Tech, Inc.	Bellevue, WA; Seattle, WA; Bothell, WA	Prime: PM, CAD/3D Model, Civil, Arch, Structural, Mechanical, Electrical, Fish Transport, VE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT
(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER: **3**

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Bayou Segnette State Park Improvements *Westwego, LA*	2021	2021

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Coastal Protection and Restoration Authority (CPRA) – Louisiana	Dustin White, Project Manager – dustin.white@la.gov	225-342-4512

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

Example of Major Project Type: Civil Earthwork Projects

- Boat Ramp Design
- Bridge Approach Design
- Pier Design
- Roadway and Parking Lot Design
- Playground Design
- Hydrology Evaluations
- Construction Phase Services
- ADA Features
- Sustainable Design Features

The project consisted of five (5) areas of work, including playground improvements, boat launch improvements, culvert replacement, cabin roadway improvements, and bridge improvements. Implementation of the project was required as sea level rise and lack of routine maintenance had left a portion of the State Park unusable to the public. The design team was ***tasked with complete engineering services inclusive of topographic survey, preparation of a full design package, including drawings and specifications, coordination with the client for bidding, construction administration, and resident inspection services for all areas of work***. The playground and boat launch components were designed as stand-alone construction packages, and each construction package was released for bid 3-4 months apart to stagger the construction area. Our design team strategically designed and released the construction packages to ensure multiple contractors could work in the area at the same time, and to ensure that all available construction funding was utilized.

The playground scope included **re-grading of the site for ADA access, use of shredded rubber mulch** for the playground fall surface, and installation of new sidewalks and site lighting. The playground was the first project released for bid and the first project constructed.

The ***boat launch scope included making improvements to the existing launch area and overflow parking lot due to constant flooding.*** The work consists of cold milling the existing asphalt surface in the boat launch area, adding a new asphalt surface at a higher elevation, removing the existing site lighting, and replacing with an LED lighting system, adding a covered structure and walkway to dock for adverse weather conditions, adding a trench drain system to convey storm runoff, and adding new sidewalks and curbing. The overflow parking lot consists of adding asphalt to the existing asphalt surface to raise its elevation. Boat launch work includes new piling and setting a new elevation for the launch to be equivalent with the parking lot elevation.

The culvert replacement, cabin roadway improvements and bridge approach replacements were also provided in the same construction package as all are in the same vicinity and related as far as setting elevations. During high tide, and dependent on wind direction, the cabin roadway was completely inundated and unpassable, leading the public to not have access to the cabins. The entire roadway had to be elevated, inclusive of raising the culverts that were nearly overtopped even during low tide. Additionally, the bridge approaches had to be re-designed due to the changes in elevation of the other features. Following construction, high tide no longer engulfs the roadway and allows the public to access the cabins without delay. Roadway signage was also updated along the entrance route to the State Park.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
MSMM Engineering, LLC	New Orleans, LA	Prime, Civil, Structural, and Landscape Architectural Design

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT
(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER: **4**

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Memorial Park at The Brazos River **Sugar Land, TX**	2016	2017

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Sugar Land	Joe Chesser, ASLA	(281) 275-2889

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

Example of Major Project Type: Mechanical Engineering Services

- Mechanical Design of New Restrooms
- Water and Sewage Systems
- Pumps
- Construction Phase Service
- Cultural Resources Management

Our Team provided professional A-E services for the planning phase and design phases involving preparation of construction documents, bidding and construction administration services for the City of Sugar Land's signature Memorial Park at the Brazos River. This project was completed in several phases in order to accommodate incremental funding over multiple fiscal years. For the Planning Phase, we prepared a Park Master Plan and schematic design for the entire 420-acre regional park along the Brazos River in Sugar Land, Texas.

Our team designed a 25-acre lake with islands, 2-½ miles of walking/jogging trails, two (2) picnic pavilions, three (3) restroom buildings, parking areas, canoe launch, playground, the "Pawm Springs" Dog Park, landscaping, windmills and a multi-purpose sports field for soccer and cricket. The three restrooms were resiliently designed as they are in the floodway of the Brazos River and are constructed of split face CMU on a reinforced concrete foundation. The restrooms are open air with steel pipe column supports for the metal roof. The women's restroom has two lavatories (one ADA) and three toilets (one ADA). The men's restroom has two lavatories (one ADA), one urinal and two toilets (one ADA).

This park was constructed entirely within the floodway of the Brazos River and has significant jurisdictional wetlands within its boundaries. Our scope of services included topographic and aerial LIDAR surveying; environmental assessments; wetlands delineation; threatened and endangered species assessment; coordination and permitting with the U.S. Army Corps of Engineers; cultural resources and archeological investigations; hydraulic and hydrologic engineering; development of a park master plan and conceptual plan and preparation of a regional grant application for state funding.

Our Design Team also prepared the final design and construction documents for all design phases of the Memorial Park. additional projects included the design of irrigation, reforestation, lighting, emergency call boxes, waterlines, sanitary sewer lines, storm sewer, replenishment of wetland areas, electrical service, a stone creek water feature and three (3) 25-acre lakes. We also designed the sanitary sewer lift station as well as the offsite waterline service and fire hydrants, sanitary sewer force main and gravity sewer and the traffic management plan.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
Huitt-Zollars, Inc.	Houston, TX	Prime, Architecture, MEP, & Civil Engineering Design and Structural Engineering Design, Surveying

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT
(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER: **5**

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Goose Island State Park-Hurricane Harvey Repairs **Rockport, TX**	2019	2020

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Texas Parks and Wildlife Department	Martha Tuzson Stockton, NCARB, LEED AP BD+C	(512) 389-8617

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

Example of Major Project Type: Electrical Engineering Services

- Power Distribution
- Control Systems
- Construction Phase Services
- Lighting Design
- ADA Compliance
- Historic Restoration
- Solar Design Features

Our firm provided professional A-E design for the preparation of construction documents, bidding and construction administration services to repair damage to facilities at Goose Island State Park in Rockport, Texas due to Hurricane Harvey in August 2017.

The project scope included the following repairs: Park's Headquarters Building window and lighting repairs; entry gate replacement; New Parking Canopy; Reroofing of several buildings; new fencing and gates; repair of walls and doors to several buildings; replacement of solar powered beacon lights at the breakwater area; Repairs to the Warbler Way and Bayberry Camp Loop Restrooms; Repairs to Day Use shade shelters including ADA access; Repair of the electrical load center, service panel, and lighting; repair scour areas; removal of the damaged pedestrian walkway and railing; reconstruction of a new ADA pedestrian crossing and railing; for Beachside Camping Area (Sites 1-44): replenish and regrade beach areas; remove and replace circuit breakers and receptacles, lighting, pull boxes, wiring and conduit including replacement of control panels for lift stations; Repairs to the Redfish Road Restroom #3, Trout Street Restroom #2 and Comfort Station #1 to include repair of spalling, replacement of louvers and replacement of lift station pumps and electrical components; Reconstruction of a more resilient 1,800 linear feet Fishing Pier to include replacement of lighting and ADA access; a New fish cleaning station adjacent to fishing pier including ADA access; Repairs to irrigation system, pump and pump house for The Big Tree; and Restoration of the historic CCC Recreation Hall to include replacement of wood shingle roofing and clay roofing tiles, reconstruction of masonry roof ventilator with shell-crete, replacement of window and door, reconstruction of the kitchen porch canopy and exterior lighting.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
Huitt-Zollars, Inc.	Houston, TX	Prime, Architecture, MEP, & Civil Engineering Design

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT
(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER: **6**

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Dallas Floodway Extension Recreation & Bridge Design **Dallas, TX**	2020	2022

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
USACE – Fort Worth District	Sandra Allen, Design Manager, Sandra.e.allen@usace.army.mil	817-886-1669

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

Example of Major Project Type: Other Facility and Infrastructure Projects

- Trail Design
- Bridge Design
- Boardwalk Design
- Observation Platform Design
- Civil Site Grading
- Slope Stability Analysis/Hydraulic Modeling

This project involved **the planning and design of various recreational components on a former golf course in South Dallas. The trail system and bridge features were designed for the United States Army Corps of Engineers** (USACE) Ft. Worth District in support of the City of Dallas. The Dallas Floodway extension project consisted of various access routes, walking/vehicular trails, bridges, boardwalks, and platforms. The project provided recreational access to a chain of wetlands designed to provide unimpeded overflow for floodwater along the west side of the Trinity River from the Dallas Floodway to Loop 122. The project continues an overall master planning effort to provide recreational access across Dallas with uninterrupted access. This project provided another 12-miles of multi-use trails, additional parking lots at major trail connection points, three additional bridges, including one larger bridge across the Trinity River, an elevated boardwalk trail for access across a low-lying marshy area, and new birdwatching platforms in the previously created wetlands. The design team also added public safety features including culverting for water distribution, locked gates, and pipe rail fences for the City of Dallas to manage public access, site lighting in the added parking lots, and site signage at the access points for time periods where the recreational areas are flooded, and public access is restricted. Benches were also added at scenic overlooks, wildflower areas and for views of the wetlands.

Our team provided **full engineering services to the USACE, including schematic design, preliminary design, and final design.** The scope of work included **the development of plans and specifications for three (3) bridge crossings, one over the Elam Creek (60 feet), one over the chain of wetlands, and a larger crossing over the Trinity River (150 feet).** Additionally, the design package consists of **over 10 miles of 12-ft wide multi-use roadway (trail) for vehicular/walking trail access,** the restoration of parking lots at trail heads, the inclusion of pipe rail fences and gates to prevent after-hour access, and the **design of bird watching platforms** over the wetlands. Our team performed H&H modeling of the Trinity River to help aid in the bridge design process. All roadway/bridges consist of a single lane and were designed to contain the load of school buses/emergency vehicles.

Additionally, public engagement was a key part of the project scope. The City of Dallas was worried about after hour access and having the public utilize this system in a remote location and have an emergency. Two neighborhoods border the location of these recreational components, so multiple neighborhood meetings were held to engage public feedback and to help guide the planning process. The public discussed their primary goals for access, information they would like to see posted in the event of non-access, and their concerns. The design team utilized this process to tweak information regarding signage, trail locations and access points.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
MSMM Engineering, LLC	New Orleans, LA	Prime Civil, Structural, Hydraulic, and Landscape Architectural Design
(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
Huitt-Zollars, Inc.	Fort Worth, TX	Sub: Civil and Structural ITR

PART I, SECTION G
KEY PERSONNEL PARTICIPATION

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

26. NAMES OF KEY PERSONNEL (From Section E, Block 12)	27. ROLE IN THIS CONTRACT (From Section E, Block 13)	28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)					
		1	2	3	4	5	6
Manish Mardia, PE	Project Manager	X		X			X
Greg Wine, PE, LEED AP	Task Order Manager				X	X	
Don Helling, PE, LEED AP	Task Order Manager						
Joe Gallegos, AIA, NCARB, LEED AP	Task Order Manager						
Joshua Carson	Task Order Manager	X		X			X
John Jarrard, AIA, LEED AP	Architect						
Randall Hickey, RA, NCARB	Architect				X	X	
Chris Johnson, PE	Civil Engineer				X	X	X
Jim Wilson, PE, LEED AP	Civil Engineer	X		X			X
Lois Loesch, PE	Civil Engineer (Fisheries)		X				
Jeff Wilson, PE, LEED AP	Mechanical Engineer						X
Will Krasner, PE, LEED AP	Mechanical Engineer				X	X	
Scott Parma, PE, LEED AP	Electrical Engineer						X
Leonard Carthon, PE, NCARB, LEED AP	Electrical Engineer				X	X	
William Wallace, PE, SECB	Structural Engineer						X
Bob Yokum, PE	Structural Engineer	X		X			X
John Poole II, PE, FSPE	Fire Protection Engineer						
John Haas, PE	Geotechnical Engineer						
Sean P. McNamara, PE	Environmental Engineer						
Rob Armstrong, PE, CFM	Hydrologist						
Tom Willis, PE	Hydrologist			X			X
Don Daigle, CVS CPE	Cost Estimator	X		X			X
Chris Scott, RLA, ASLA, CNU-a	Landscape Architect				X		

29. EXAMPLE PROJECTS KEY

NO	TITLE OF EXAMPLE PROJECT (FROM SECTION F)		
1	Granger Lake Management Office Building Design – Granger, TX	4	Memorial Park at The Brazos River – Sugar Land, TX
2	Mud Mountain Dam Fish Trap and Haul Design – Enumclaw, WA	5	Goose Island State Park-Hurricane Harvey Repairs – Rockport, TX
3	Bayou Segnette State Park Improvements – Westwego, LA	6	Dallas Floodway Extension Recreation & Bridge Design – Dallas, TX

PART I, SECTIONS H & I ADDITIONAL INFORMATION

H ADDITIONAL INFORMATION

Introduction of the Team

MHZ JV
A MENTOR PROTÉGÉ JOINT VENTURE

The Prime Firm on 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. Our combined resources offer the DOI and its bureaus a full-service team that specializes in park projects, both building- and infrastructure-related work on a national basis and with extensive federal IDIQ experience. Furthermore, through our JV's multiple offices with widespread resources in the ten states of interest (see Appendix B Geographical Selection Form) and our association with our subconsultants, we offer total geographic coverage with ***locally based staff and experience in the geographically selected location***.

responsive

As a small business enterprise, we offer a typical small business approach of ***responsiveness and service***, but one that is backed by a ***deep bench in all disciplines located throughout the US***. As you can see from the Section D Organizational Chart, our organizational concept includes multiple Task Order Managers with experience in specific geographic areas of interest—one each for Louisiana, Texas, New Mexico, and Washington. These Task Order Managers are also well qualified to handle assignments in our other selected states, as required (see Appendix B for Geographical Selection Form and proof of corporate registration). Each task will be supported by our key discipline personnel and a group of specialized subconsultants that will help meet the individual requirements of all the major project types described in your Scope of Work

single point of contact

As prime firm, the MHZ JV will provide the ***single point of contact and be responsible for meeting all obligations*** under the contract, and will manage resources for both prime and subconsultant team members. Our Project Manager, Manish Mardia, is extremely experienced with federal agency civil works and processes. Mr. Mardia, as the Program Manager, led a JV team in support of a major federal program after Hurricane Katrina in New Orleans for design of reconstruction and renovation of horizontal infrastructure. The team was awarded a $60M IDIQ for AE Services. Manish led a team of civil, structural, geotechnical and cost engineers on over 60 task orders. These task orders included site assessments, planning, feasibility studies, hydraulic modeling, design and construction inspection for over 20 design-bid-build construction documents. His experience on this high-profile federal contract, along with management of several other federal IDIQs makes him the perfect fit to lead this team.

federal IDIQ management

Our JV and its partners have ***held more than 20 federal IDIQs over the last 10 years*** that have supported critical programs that are very similar to the needs that the Great American Outdoors Act aims to address. Our team has well established communications plan and a quality control program, as well as schedules, budgets, and project approaches for each individual task order under our contract. Thus, in addition to depth of resources and diversity of geographic coverage, another of the benefits we offer the DOI is a ***sophisticated understanding of the management of major, multi-year IDIQ-type contracts*** and the Task Order Proposal Request process. Our approach to contracting is informed by decades—and thousands of individual task orders under dozens of federal IDIQs such as yours—of experience with assignments that can result in multiple, simultaneous projects of varying size and technical needs.

What other federal agencies are saying about Project Manager Manish Mardia

Jefferson Parish Floodwalls

"Mr. Manish Mardia has been a tremendous asset to our organization. He helps us fulfill our mission by providing access to high quality skill sets and rapidly adapting to changing conditions. He establishes and maintains good relationships with all parties and has outstanding customer service. I welcome the opportunity to continue working with Mr. Mardia."

-Mr. Christopher J. Kelly, P.E., USACE Risk Management Center

Natchez Drainage Improvements

Natchez Drainage Improvement Project in Natchez, MS received the Best Project Award from the Mississippi River Commission in Vicksburg. The project was managed by ***Mr. Manish Mardia, who was presented with the President's Award for Excellence from General Crear*** of USACE Mississippi River Commission for his successful project management of the Project.

MHZ JV
A MENTOR PROTÉGÉ JOINT VENTURE

Our Joint Venture was formed to be ***Federal agency-focused offering a wealth of resources*** and all traditional disciplines under one roof. MSMM, the Protégé firm, is a multi-discipline engineering firm with several active federal contracts throughout the U.S. They are capable of a broad range of infrastructure planning, design, and construction needs with capabilities including civil, structural, and mechanical and electrical engineering, as well as architectural design, hydraulic modeling, engineering cost estimating, and value engineering. They have extensive engineering and design experience including the development of detailed plans, specifications, design analysis and design documentation reports. Huitt-Zollars (HZ) is the Mentor firm in the venture and also offers full-service capabilities. HZ has a comprehensive recent track record with the planning, design, and construction administration of Federal agency projects, having executed some of the largest programs in recent history, as detailed in these materials. Together we can fully support DOI on all planning, design, and construction program assignments, no matter the size, scope or complexity. Our JV is supplemented by a group of sub-consultants that diversify our team's capabilities in specialty areas of technical expertise that may be required for this contract:

TETRA TECH

We are joined by Tetra Tech to support any project that involves fisheries. In over ***50 years of fisheries work***, Tetra Tech has participated in fisheries projects in 26 states and 6 foreign countries. They have a deep understanding of the biological drivers of restoration projects, and biologists who understand the physical and hydraulic components of restoration design. They stress the integration of disciplines both internally and with teaming partners. Their designs combine biology, hydrology, hydraulics, stream morphology, and civil engineering, tailored to project conditions. Tetra Tech has a long history of working with both JV partners in a consulting capacity for unique projects.

POOLE FIRE PROTECTION

Poole Fire Protection specializes in code consulting, life safety analysis, fire protection system design and construction management services. Their team consists of licensed fire protection engineers who are familiar with the ***application of NFPA 101 Life Safety Code nationally*** for multiple federal agencies including DOI. Poole Fire Protection has served as the Qualified Fire Protection Engineer on multiple U.S. Department of Interior projects – especially at National Park Service parks nationwide. In fact, Poole Fire Protection is one of three small businesses to hold one of the nationwide fire protection engineering IDIQ contracts.

Terracon

Terracon will support the team with ***environmental and geotechnical engineering as they are currently proving this service for another JV contract***. Terracon has provided consulting services on projects for the Bureau of Land Management, Bureau of Indian Affairs, Bureau of Reclamation, National Park Service, US Fish and Wildlife, and the US Forest Service. These projects have included traditional geotechnical engineering for design and construction of new bridges, culverts, gravel, asphalt, and paved roads, tanks, parking areas, campgrounds, buildings including a fire facility, campground buildings, visitor centers, shelters, and storage facilities, and national and historic monuments, environmental engineering (asbestos and lead paint), geophysical testing, and Non-Destructive Testing. Our bridge experience spans smaller, difficult access pedestrian bridges to truss, trestle, arch, and historic stone bridges, etc.

ah
ENGINEERS & SCIENTISTS

AH has extensive experience in evaluating, assessing and designing water and wastewater treatment operations. Our water system experts are intimately ***familiar with the Safe Drinking Water Act*** and its requirements, and are highly proficient in designing and modeling water systems, performing sanitary surveys, and developing treatment processes to cost effectively provide safe drinking water. AH has supported MSMM in several water quality projects.

VERNADERO GROUP INCORPORATED

Based in Phoenix, AZ, Vernadero Group will provide environmental resources planning and regulatory ***compliance specifically for NEPA***, environmental site assessments, wetland permitting and mitigation planning, and hazardous waste management.

KOMATSU ARCHITECTURE

Komatsu Architecture is a small architectural, interior, design and programming firm that has a specialty in historic preservation. KA has been the historical architect consultant on several federal projects for Huitt-Zollars. Based in Fort Worth, Texas; Karl Komatsu, the president of the firm was President George H. W. Bush's nominee to the ***National Parks Advisory Board and chair of the National Performance Review of all federally funded historic preservation projects***.

C. Nissley Environmental Consultants is based in Colorado and will assist the team with cultural resource management, environmental impact analysis and ***tribal reservations employment rights***. Claudia Nissley is a well published in cultural heritage preservation and approach to stakeholder involvement and has worked with us on several tribal projects in New Mexico.

H-1 Past Performance

Our Team has a deep history of providing Federal customers with AE Services under IDIQ contracts. Both of the Joint Venture partners and our subconsultants have an excellent record of providing A-E services to Federal agency clients and on Federal construction projects. This includes the joint venture led by MSMM to support the Hurricane Protection Office in New Orleans for reconstruction and renovation of existing horizontal infrastructure after the Hurricane Katrina event. On this high visibility, schedule-driven $60M IDIQ program, the MSMM team, performed over 60 task orders. Under MSMM's direction the team was recognized by USACE earning a combined ACASS/CPARs rating over all tasks of 75% Exceptional rating with the remainder being Very Good or Satisfactory. In addition, Huitt-Zollars has more than 150 "Exceptional" and "Very Good" ACASS/CPARs performance reviews on federal agency task order. We hope that this record of proven high quality and low risk performance on a diverse range of work will instill confidence in our ability to meet or exceed your expectations on this assignment. Neither of the two joint venture partner firms has ever had a rating less than "Satisfactory" on any task order.

Provided below is a recap of the six projects featured in Section F of this SF330. Please refer to Appendix D to this SF330 for relevant ACASS/CPARS/PPQ evaluations.

Section F Project	Performance Elements			
	Quality of Service	Cost Control	Timeliness of Performance	Business Relation
Granger Lake Management Office Building Design	Satisfactory	Satisfactory	Satisfactory	Very Good
Mud Mountain Dam Fish Trap and Haul Design	Exceptional	N/A	Exceptional	Exceptional
Bayou Segnette State Park Improvement	Very Good	Very Good	Very Good	Very Good
Memorial Park at Brazos River Phase 1A & 1B	Exceptional	Very Good	Very Good	Exceptional
Goose Island State Park-Hurricane Harvey Repairs	Satisfactory	Satisfactory	Very Good	Very Good
Dallas Flood Extension Recreation & Bridge Design	Very Good	Very Good	Very Good	Very Good

MSMMs performance with the Hurricane Protection Office

"The US Army Corps of Engineers would like to take this time to extend both our gratitude and appreciation to your firm for its contribution towards design and construction of the Greater New Orleans Hurricane and Storm Damage Risk Reduction System (HSDRRS). The commitment of your firm's leadership and design team was integral to our success in delivering a world class system with functional capability for the 2011 Hurricane Season."

-Mr. Mark Wingate, P.E., DPM, USACE New Orleans District

Air Force Research Laboratories, Albuquerque, NM

"AFRL has utilized Huitt-Zollars in multiple capacities, as RFP A/E development team Lead and as the Lead Designers of Design Build Teams Huitt-Zollars takes the time to get to know your agency more than any other team I have worked with in my 10 years of experience at AFRL. Their integrity, their attention to detail and their due diligence sets them above the rest."

– Bradley A. Reick, DR03, (GS-14) Senior Facility Engineer, Architect, USAF/AFRL/ RVOI, Albuquerque, NM

We offer additional examples of recent work in some of the additional states of interest of similar scope, size, and complexity as your program in order to show how we will meet the capability requirements of this contract, including the diverse subject matter in which the successful A-E must be conversant. Following these brief project descriptions is a matrix that indicates the cross section of "Major Project Types" set forth in your notice with these featured projects.

1 - Soos Creek Trail – King County, WA

Client: King County, WA
Construction Cost: $20+ million
Ratings: Quality: Exceptional; Cost: Exceptional; Timeliness: Exceptional; Business Relations: Exceptional

We team has provided master planning, civil engineering, and landscape architecture for the 7-mile Soos Creek Trail, a phased King County regional park and trail system for over 25 years. The trail follows along Soos Creek Valley through woods, wetlands and meadows. The Big Soos Creek is a Class "A" stream featuring spawning salmon and steelhead together with a resident trout population. Both creek valleys provide a relatively undisturbed natural corridor meandering through a rapidly developing suburban-rural community. Due to the corridors' sensitivity, we carefully analyzed and designed solutions to ***avoid and minimize impacts to the stream and wetland environments***. Other existing and proposed trails, local parks, and several adjacent neighborhoods link to the trail. The designs included parking lots for vehicles and horse trailers, restrooms, a picnic pavilion, and observation platforms overlooking special stream and wetland environments support trail use. The design included five bridge crossings, routing the trail to low-impact areas and giving the trail user a constantly shifting view of the valley – now protected from suburban encroachment. Due to suburban development along the Soos Creek Corridor and trail construction, carefully monitored erosion control was a major consideration for every phase of construction.

2 - El Franco Lee Park Wetland Enhancements – Harris County, TX

Client: Harris County, TX
Construction Cost: $1.35M
Ratings: Quality: Exceptional; Cost: Exceptional; Timeliness: Exceptional; Business Relations: Exceptional

The El Franco Lee Wetland Enhancement project is a Coastal Impact Assistance Program (CIAP) grant-funded project administered by the Texas General Land Office (TxGLO), involved the U.S. Fish and Wildlife Service. The project, which has enhanced wildlife viewing opportunities, increased knowledge and support of enviornmental features and created longterm conservation benefits; has won several design awards including ***APWA National Project of the year and ACEC Silver medal winner***.

Our team provided planning, design, construction documents, and construction observation for the a new 1,100 ft boardwalk, Trail, Observation Tower, Education areas and Butterfly Garden around a wetlands area on the 365 acre project. The project also involved coordination with the US Army Corps of Engineers for the Preliminary Jurisdictional Determination of Wetlands within the project area. Sustainabilty was an important focus for the county. We provided architecure and engineering design for two observation towers, boardwalk, sampling pier, trails, butterfly garden, monarch butterfly waystation, educational areas within the butterfly garden and along the trail system, drainage improvements, landscaping and wetland plantings, park and trail signage, rainwater-harvesting system, and an ornamental water fountain powered by a solar panel.

Proactive Construction Administration And Observation Services

We provided construction observation and administration throughout the 18-month construction period. Our role created added flexibility to support the overall project and provided cost savings and value engineering during the construction period. The project was constructed during an excessively rainy period making the wet conditions challenging to work in the low wetland environment. We provided thorough field observation due to construction in the environmentally sensitive areas keeping the contractor highly aware of equipment function and diligence is maintained to protect the environment from any contamination or unwarranted disturbance and to exhibit respect for the environment. Sensitive controls were instituted throughout the project in order to decrease disturbances and protect nesting areas. Additionally we provided a vehicle for technical oversight of all construction quickly, as needed, in order to monitor contractors and ensure the design was properly implemented.

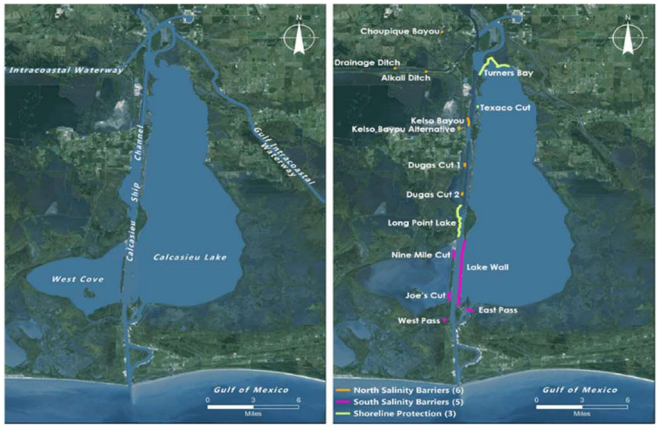
3 - Zuni Kiva Assessment – Zuni Pueblo, NM

Client: Pueblo of Zuni, NM
Timeline: Professional Services Completion: 2019
Construction Cost: N/A

Our firm provided two assessment reports, concept design studies, and cost estimates for the repair, renovation and rebuilding of six sacred religious centers, located in the Middle Village of the Zuni Pueblo in New Mexico. The first task was related to the Corn/Chuba:kwe Kiva, which was completed in February 2017. Assessment of existing conditions of exterior grades, roof and ceiling assemblies, and wall assemblies was made and then concept designs produced with recommended demolition plan and floor plans. The second task related to similar activities relative to five additional kivas—Wall, Manure, Small Group, Brain, and Wide Wall. Our team included our ***archeological/cultural specialist Dr. Sharon Milholland to address concerns such as matching historical village aesthetic*** and the possible collapse of renovated structures situated on ***ancient tribal mounds***.

4 - Calcasieu Ship Channel Salinity Control Measures Project, Calcasieu Lake, LA

Client: Coastal Protection and Restoration Authority of Louisiana
Construction Cost: $2.9M
Ratings: Quality: Exceptional; Cost: Very Good; Timeliness: Very Good; Business Relations: Very Good



Tetra Tech was selected by the Coastal Protection and Restoration Authority (CPRA) of Louisiana to lead the Calcasieu Ship Channel Salinity Control Measures Project (CS-65) to manage salinity in the Calcasieu Basin. The project area is located in southwest Louisiana, specifically within Calcasieu and Cameron Parishes, in an area referred to as the "Chenier Plain." It consists of Calcasieu Lake and directly connected wetlands and extends to Sabine Lake to the west, the saltwater barrier and upland-wetland interface to the north, the west bank of the Mermentau River to the east, and the Gulf of Mexico to the south. As part of the 15% Engineering and Design (E&D) phase of the project, fish passage designs were incorporated into the salinity barriers consisting of sills and wall structures. **The fish passage features combined elements necessary to allow the safe, timely, and effective movement of fish through the walls and sills designed for salinity control**. Fish passage features consisted of gaps, slotted sheet piles, or ramps over navigation sills, depending on site-specific conditions. Local hydrology, target species, and feature orientation were the primary site-specific considerations for selecting the elements of the fish passage. The design considerations ensured that the structure elements had adequate dimensions to account for flow depth and velocity.

5 - Lake Pleasant Improvements, Surprise, AZ

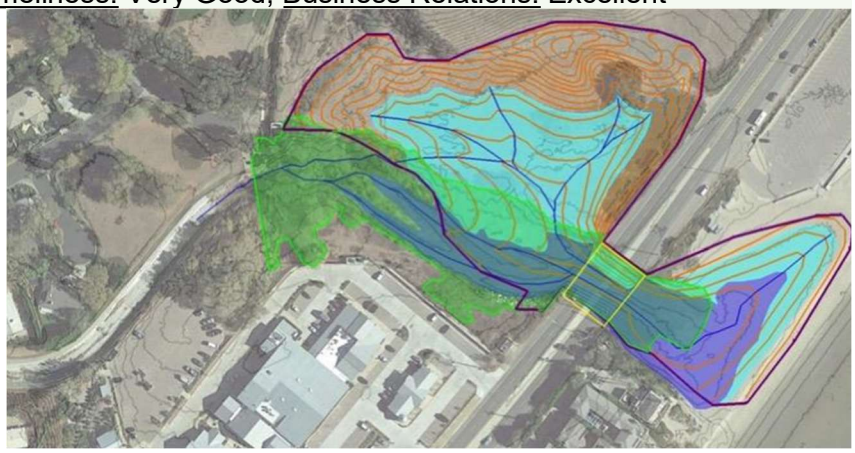
Client: Maricopa County
Construction Cost: $1.5M
Ratings: Quality: Very Good; Cost: N/A; Timeliness: Very Good; Business Relations: Very Good

We provided due diligence, planning, with preliminary and final design at the Lake Pleasant Scorpion Bay Sheriff's Facitliy for monitoring lake activity which included boat storage, ramps, staging and parking lots. The existing entry service road to the boat storage and emergency rescue staging area were in jeopardy of collapse due to a failing retaining wall system. We conducted ***design charrettes involving all stakeholders, including Maricopa County Facilities, County Parks, Bureau of Reclamation, and the Sheriff's Office.*** The selected design option achieved the objectives of avoiding the cost of totally reconstruction of the retaining walls, while stabilizing slope and drainage elements of the modified structure in order to mitigate further wall failures. The work featured a robust storm water pollution plan, since the adjacent lake edge was within 15-feet of the project limits and was designed to be environmentally compatible to the lake, with no adverse impact on fish and wildlife.

6 - Trancas Creek and Lagoon Feasibility Study, Malibu, CA

Client: Resource Conservation District of the Santa Monica Mountains
Construction Cost: $910K, Construction Completion 2014
Ratings: Quality: Excellent; Cost: Very Good; Timeliness: Very Good; Business Relations: Excellent

The existing concrete lined chanels on Trancas Creek were causing signficant firsh barries and negative impacts to the life cycle of the natural creek and lagoon resources. Our team provided a study focusing on the removal of the fish passage barriers and improving the habitat for endangered aquatic species. The local communities showed strong interest in the success of restoring the creek and lagoon into a healthy natural resource and achieved success in a grant for construction. Our team of civil engineers, environmental scientists and hydrology specialist worked together to model the impacts and devleop several alternatives for construction. ***The project recevied the ACEC California Engineering Excelence Award in 2014.***



Project Capability Summary

Project Types	1	2	3	4	5	6
Architectural Services			✓			
Fisheries Engineering				✓		
Civil Earthwork	✓	✓		✓	✓	✓
Mechanical Engineering Services		✓		✓		
Electrical Engineering Services		✓				
Other Facility and Infrastructure	✓	✓			✓	✓

Projects

1. Soos Creek Trail – King County, WA
2. El Franco Lee Park Wetland Enhancements – Harris County, TX
3. Zuni Kiva Assessment – Zuni Pueblo, NM
4. Calcasieu Ship Channel Salinity Control Measures Project, Calcasieu Lake, LA
5. Lake Pleasant Improvements, Surprise, AZ
6. Trancas Creek and Lagoon Feasibility Study, Malibu, CA

H-2 Capacity and Quality Management

Capacity

Our Joint Venture team comprises two partner firms that both feature full-service, multi-discipline practices, with all traditional design disciplines in-house. We maintain staff in all primary disciplines with licensed professionals who either are already registered or certified by the appropriate agency in the affected jurisdictions or who can be licensed within 30 days of notice of award of this contract. Refer to the table for a summary of how we plan to staff each of your primary disciplines. The "checkmarks" under "In-House" in the table mean that the listed discipline will be provided by current JV staff; an "checkmarks" under "Sub-Consultant" mean that we will sub-contract with an appropriately licensed professional firm in the area to provide the indicated service.

Primary Disciplines	In-House	Sub-Consultants	Team Personnel Capacity
Architecture	✓		118
Civil Engineering	✓		1007
Mechanical Engineering	✓		686
Electrical Engineering	✓		512
Structural Engineering	✓		237
Fire Protection Engineering		✓	12
Geotechnical Engineering		✓	257
Environmental Engineering		✓	124
Hydrology	✓		14
Cost Engineering	✓		2

All secondary services listed on the Organizational Chart for this submittal will be provided by professional staff of either the JV team or our subconsultants who are licensed or certified by the appropriate agency in the affected jurisdictions of this contract. We are proposing a seamless, integrated Team of independently qualified firms in which the sum of the whole is greater than any of its parts and one that minimizes

the risk to the DOI and its agencies because of the breadth and depth of our own experience with planning and design. As a group, we are dedicated to each other and committed to helping the DOI succeed in this important mission.

DOI can trust that our most experienced and capable Project Manager and Task Order Managers will oversee this IDIQ, and ensure that there is seamless and transparent communication between the client and our team. We have provided you with resumes of four Task Order Managers, assigned by the state in which they reside. In addition to the Louisiana, Texas, New Mexico and Washington Task Order Managers, below is a summary of the Task Order Managers for the additional states of interest. Note, these managers are senior experienced personnel with the MHZ JV who are based in the state in which we are proposing.

Florida Task Order Manager – Todd McCurdy, RLA, NCLARB, FASLA

Based in Orlando, FL; Todd, a registered landscape architect in Florida, has over 40 years of notable project experience in the eco-tourism and park environment. He has experience with comprehensive planning and management of complex landscape and environmentally sensitive projects.

Virginia & Washington DC Task Order Manager – Jim Wink, PE

Jim is located in Alexandria, VA. He is an expert in engineering, construction, public works, and federal project management. Jim comes has more than three decades of experience as he served most of his career in the Navy Civil Engineer Corps with duty assignments that included working Navy Staff in the Pentagon, several facilities at Naval installations located in the National Capital Region and has executed more than $3 billion of design and construction of infrastructure and facilities. He is a registered Professional Engineer in Virginia and Washington DC.

Colorado Task Order Manager – Wendy Amann, PE

Wendy is a registered Structural Engineer in Colorado, New Mexico, Texas and Arizona and has over 30 years of design and project management experience in the Rocky Mountain Region. She excels as complex structural projects involving steel and wood structures. She has managed multi-disciplined vertical and horizontal design teams for several park project in the Colorado and Wyoming region, many involving complex pedestrian bridges.

Arizona Task Order Manager – Ryan Raab, PE

Ryan has more than 20 years of experience in major civil and infrastructure design projects in Arizona. He is a registered PE in Arizona, Texas and New Mexico. He has an excellent working relationship with the local jurisdictions across Arizona, as he has been involved in many major public improvement projects and community development.

California Task Order Manager – John Valassis, PE, QSD/P

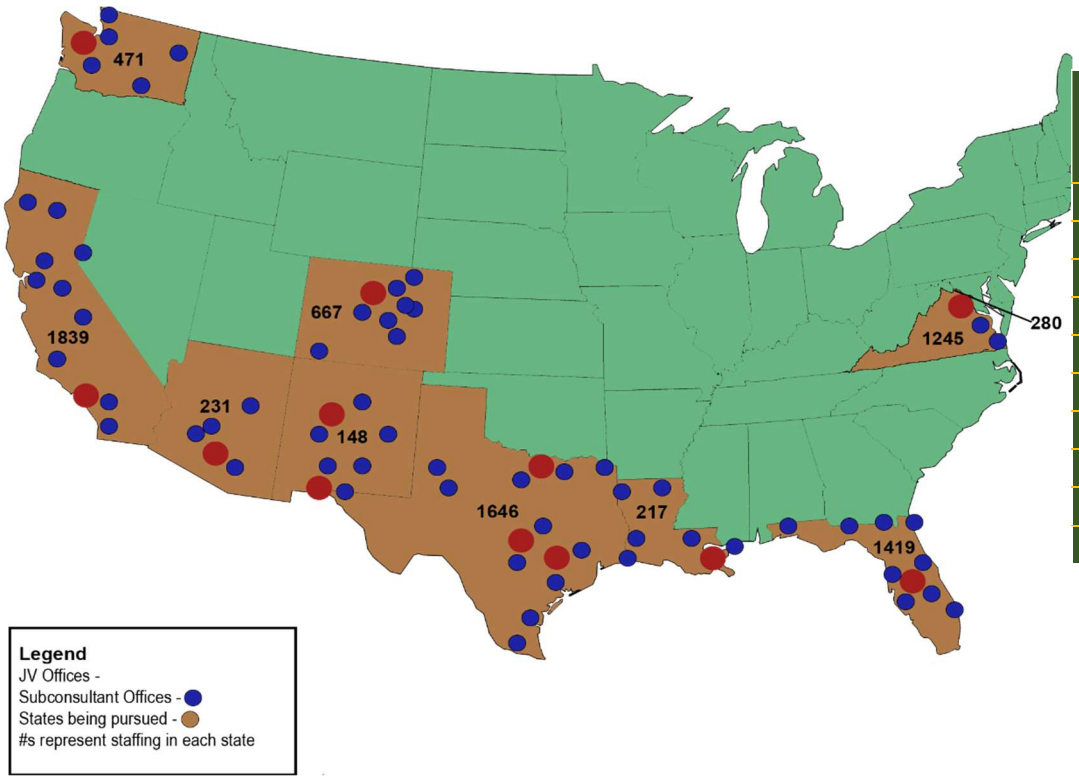
John has over 33 years of experience in site development and major park projects throughout California. He has successfully guided complex projects through the complex environmental requirements in California from entitlement, due diligence, planning, design development, construction documents and through construction and operations and maintenance. John is a registered Professional Civil Engineer in California as well as a Qualified California SWPPP Developer and Practitioner.

The JV partner firms are resourced and organized to manage a combined workload in excess of $120 M in revenue annually. If this IDIQ were to require our participation in the approximate maximum number of nine task orders in a single year, the resulting fees (at an average of $250,000 per task) would be $2.25 million. Assuming that the prime JV performs 80% of the work and the remainder is subcontracted, we would expect to perform a maximum of $1.8 M in fees in that year. This figure accounts for less than 2% of our average annual practices combined, an amount that can be absorbed with existing resources operating without the need for extended over time.

We typically operate at a historical annual staff utilization rate of 64%, which provides needed flexibility and the bench strength to support simultaneous task orders ranging in size, complexity, and schedules. Currently, the primary sponsoring offices in the region (New Orleans, Fort Worth, Houston, Albuquerque, and Seattle) are operating at over 70% utilization, so as our current portfolio of existing work which is nearing completion. We expect a level of approximately 5%-10% excess labor to become available for new contracts. In any case, our backlog is typically difficult to forecast beyond 12 months as most of our projects are of less than a one-year duration. As you can see, our team possess the necessary depth in the primary disciplines to execute the anticipated work.

The fact is that we are committing seasoned team with the right experience specially working on federal IDIQs for any related design requirements that DOI might have, and this level of experience will facilitate our ability to respond to your needs on this IDIQ. As mentioned, we routinely execute multiple task orders simultaneously with this proposed staff, often times in separate locations across thousands of miles, drawing from a deep pool of technical resources. The map demonstrates the location of our offices in the selected states on interest as well as our team total staffing in those states. Our team will provide DOI with the necessary resources to execute any project of any type or size

in the 10 states of interest. In addition, we have provided a table with the total registered JV personnel in each state showing that the JV, as the prime firm for this contract, has adequate resources to support DOI in all 10 states of interest.



States	Registered JV Personnel for Each State
Arizona	33
California	47
Colorado	28
Florida	17
Louisiana	42
New Mexico	37
Texas	171
Virginia	12
Washington	30
Washington DC	6

Our JV partners also currently hold the necessary corporate state registrations to practice both engineering and architecture.

Corporate State Registrations				
States	Huitt-Zollars		MSMM	
	Engineering Registration	Architecture Registration	Engineering Registration	Architecture Registration
Arizona	#10299-0	#10299-0		
California	COQ: 1442141	#C1589393		
Colorado	COA: 19991016972	COA: 19991016972		
Florida	9625	P13688		
Louisiana	2207	2207	4896	4896
New Mexico	COA: 1856301	COA: 1856301		
Texas	F-000761	BR233	F-19372	
Virginia	#0407004449	#0411001460		
Washington	1125	601 729 288		
Washington, DC	ID 250-000692125	ID 250-000692125		

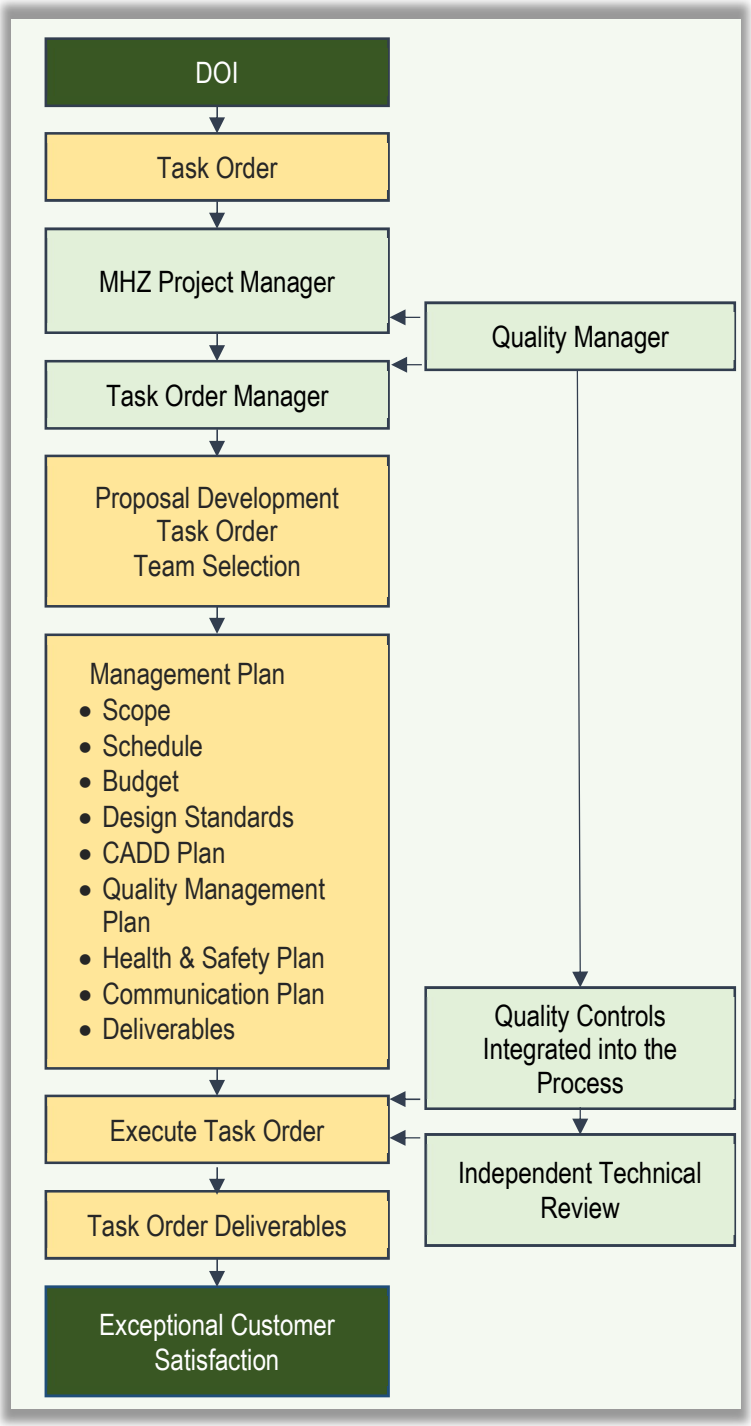
Management Approach

Our team has extensive experience managing multiple, concurrent task orders in geographically dispersed locations for IDCs requiring multidisciplinary teams. We have collaborated with over 30 federal agencies on IDIQs providing similar services, some of which is summarized below. Due to the diverse nature anticipated for this scope of work, our team develops task order specific management plans that forecast scheduled tasks with the necessary staff resources to maximize personnel utilization and reduce costs. The flow diagram to the right demonstrates our task order approach and existing processes to handle multiple, concurrent task orders.

- Texas Parks & Wildlife Department – Executed 12 task orders over a 7 year period for the Infrastructure Division of the Texas Parks and Wildlife. The IDIQ consisted of Architectural and Civil Services for renovations, repairs, and new construction, as well as upgrades studies and assessments.
- Nationwide A-E Services IDIQ for Military Construction – Executed 9 task orders in less than 2 years on our most recent USACE, Fort Worth District IDC for horizontal and infrastructure projects with an averages fees over $800K. Four of the nine task orders have overlapped while providing multi-disciplined services.
- Nationwide A-E Services for DHS – Executed over 60 task orders on our most recent USACE, Fort Worth District IDC. This involved multiple and simultaneous projects, including three particular assignments that overlapped for a two-year time-frame and team members in various nationwide offices
- Fort Bliss Expansion Program – At the peak of this $4.8B Expansion Program, we prepared 130 design-bid-build horizontal infrastructure construction packages and preformed over 285 task orders in 7-years (2006-2013) amounting to the construction of over $1B in military infrastructure. Our team managed and completed more than 25 horizontal design Task Orders concurrently by ramping up with dozens of civil design teams within the first 6 months of the contract

.

We are comfortable with any size task order that DOI may wish to issue to us. The largest single task order that MSMM has executed in its individual practice is $1.7 million. The largest single task order that H-Z has executed in its individual practice is $18 million. We are also comfortable with smaller task orders, as may be required at the convenience of the Government.



Quality Management

Our JV team's Quality Management System (QMS) is based on ISO 9001:2015. The Quality Control review and subsequent Quality Assurance processes that we use are documented in a project delivery work instruction and a dedicated QA/QC review process work instruction. Beginning with the Project Work Plan identifying who is doing what, the work instructions provide guidance, "how to" and forms to effectively implement the QA/QC process. As the prime, we ask our sub-consultants to adopt our quality processes. The quality control reviews are executed with a QA/QC process flow chart, a color code marking protocol (Tip sheet), and a check print stamp. QA verifies the QC is done, is done in accordance with the projects requirements and verify review comments are addressed and resolved. The quality of our plans and project deliverables and the effectiveness of the process is demonstrated by the low number of comments and changes encountered during the construction process. The following materials outlines the general Quality Management Approach we will undertake for each task order:

Plan

We begin with the assignment of qualified Design Team members by the Project Manager, who will meet with client, agent, and other stakeholders and visit the project site to gain a thorough understanding of project requirements. We will develop a detailed proposal during the negotiation phase of the project. Our Scope of Services will include a clear and concise list of services that we will provide and identify any documents that DOI and its agencies will be providing.

Do

We will conduct a Project Kick-off Meeting involving the client and Project Team members including sub-consultants. The Project Work Plan is presented and our in-house design checklists (both discipline specific and interdisciplinary) are distributed to the Project Team for using in conducting their own quality control checks. Documentation of the team's in-house QC checks will be done using our Check Print stamp. The acting QC Manager verifies the in-house QC reviews have taken place; the Task Order Manager signs the stamped document to acknowledge receipt and incorporation of any reviewer's comments, and the Project Manager, Mr. Mardia, approves the submittal of the deliverable. The Project Manager will meet monthly with each Task Order Manager to review the progress of the individual task orders. Additional company resources shall be dedicated to those activities that are not on schedule.

Check

The checks that the team makes to determine the level of quality in our project delivery are as follows:

- Lessons Learned Meeting with Project Team following completion of the task order.
- Our Corporate Quality Representative conducts Office audits with detailed project reviews.
- DOI's feedback is solicited in an effort to help us improve our project delivery

Act

The actions that we take to promote improvement in our Quality Management System and project delivery are as follows:

- Checklists are updated and new checklists are added
- Corporate Quality Representative annually reviews the office audit results (see below) and establishes the JV quality objectives for the following year.

Our Plan-Do-Check-Act process described above allows us to strive to achieve the error-free project, matching the scope and not exceeding the budget, in the timeframe agreed upon. This is measured throughout the process to ensure the numbers of QC comments are not outside of the norm for the type and size of the project, which can indicate a larger issue on the project. With our multi-layered review process, the Task Order Manager and Program Manager are involved in understanding and tracking the document quality level long before it reaches the actual deliverable.

Sustainable Design/High Performance

As you can see from a review of our Organizational Chart in Section D of this document, our entire team is well versed in sustainability requirements, literally in every discipline. The numerous LEED AP accreditations are included for the individual team members in both the Organization Chart and the Section E resumes.

Total LEED projects completed by the JV members in

Certified: 25 | Silver: 65 | Gold: 43 | Platinum: 5

Our team uses an integrated design process to optimize delivery of defined environmental goals both during the construction process and throughout the life of the facility. We emphasize the use of sustainable technologies and systems that not only save energy, but also are practical, maintainable and have the highest return on investment for our clients. Our team follows the guidelines provided in the Whole Building Design Guide (WBDG) to create a successful high-performance building. The WBDG provides concepts and criteria for energy reduction, sustainable design, cost effective systems, construction waste management, building envelope design, physical and psychological comfort, building function and operations, and predictive maintenance.

We have been implementing design compliant to the Guiding Principles for Sustainable Federal Buildings since it was first issued in 2016 as well as sustainable designs following ASHRAE 189.1 to ensure the components of a new facility or renovation are sustainable and compliant with the Guiding Principles requirements but minimizing the "extra" effort required to comply with all the USGBC's documentation requirements. Our team has experience and flexibility to adapt to these changes and is in the process of implementing GP certification on multiple projects.

Our personnel are well versed in energy management and modeling and are expert in applying the ASHRAE 189.1 standard in the design of High-Performance Green Buildings. For example, our designs incorporate mechanical systems, building envelope, and lighting controls that have been selected based on energy model calculations for energy efficiency and lifecycle cost to provide adequate return on investment. We have designed on-site energy generation systems such as photovoltaic arrays. Typical water saving strategies include designing low-flow plumbing fixtures to reduce water usage and developing landscaping designs suitable region to eliminate the need for irrigation. We have the expertise to design other water saving strategies such as grey water reclamation systems or rainwater harvesting, but often find the life cycle cost or operation and maintenance requirements make these less desirable.

Cost Estimating

As mentioned, it will be the responsibility of our Project Manager, Manish Mardia, to develop a detailed management approach for each individual task order under this contract. This approach will include scheduled activities dedicated to cost and schedule control, which as you know are always related. Adequate time for cost and quality reviews must be included in the schedule so that these important processes take place in an orderly manner. The project plan for each task order will include a schedule that identifies key submittals, and cost estimates and quality control reviews that must take place in conjunction with these submittals. As part of our approach to develop accurate cost estimates, the MHZ Team will involve our cost estimator in the initial project stages - from schematic and charrette facilitation to design development, construction documents, and value engineering. The Team's Lead Cost Estimator, D. Daigle has over 30 years of experience and has prepared cost estimates for Federal projects for the past 12 years. Mr. Daigle is a Certified Professional Estimator and Certified Value Specialist. He has provided cost estimates for projects ranging in size from $5,000 to over $50,000,000.

Proactive Cost Estimating

Recently, our Team was tasked by USACE with design for three projects. The three projects included a **levee system**, a force main and a pump station; all designed separately, inclusive of separate plans, specs, design analysis and construction cost estimates. Following the 65% design and **independent government estimate** submittal, Mr. Daigle identified that bidding the project as three separate packages created a high overall project cost which exceeded the construction cost limitation. Being proactive, Daigle visited the site and met with local construction contractors about impacts of performing the project as one design package. He reworked the IGE into one package and worked with USACE cost estimating team to fine-tune the multipliers and subcontract markups based on his research. Mr. Daigle worked with the design team to develop several value engineering solutions to the combined package to help reduce the overall project cost. We further reduced the cost by recommending a construction contractor out of a pool of approved firms rather than using a sole source 8(a) contractor as previously contemplated. The project was then constructed within the government's target budget.

Budgets will be verified on a parametric cost basis as a part of early scope verification/programming activities and then construction cost estimates developed by our Cost Estimator Daigle, at every phase submittal in the schedule in increasingly greater detail until at 100% drawings and specifications completion, our estimate resembles a construction contractor's bid pricing in level of complexity and detail. This level of cost estimate is equivalent to the Department of Interior's A-E Class A Independent Government Estimate, and is updated throughout construction to reconcile initial bid price with final cost at construction completion.

Our Federal IDIQ experience includes preparing current working estimates shortly after each design submittal, which is based on the current stage of design to final estimates into a construction line item schedule in which the project is to be advertised. Our cost estimator uses his professional judgment, historical data, experience and market research to determine fair and reasonable costs of equipment, material, labor, area cost factors and other expenses related to the construction. When necessary we provide additional backup data and other lower level cost information in other formats such as Excel. Our estimator develops costs using the latest standards and resources including the Tri-Services Automated Cost Estimating System, available federal cost databases (such as MII), commercial cost book databases (such as RS Means), PAX newsletters, Davis-Bacon wage as minimum values, commercially available reports, and local site specific sources.

Construction Phase Services

As to experience providing Construction Phase Services on Federal or other governmental agency projects, we regularly provide post-design assistance to our clients, including site meetings with the General Contractor, shop drawing review, RFI and change notice evaluation, periodic or full-time observation, all the way to full construction management representation of our owners. In our role as Land Development Engineer on the Fort Bliss Expansion program, we provided full construction phase services on some $4 B worth of construction projects at Fort Bliss designed by other firms. At the peak of this program, we were a part of a JV that maintained a staff of up to 137 persons in the field. Later, we provided up to 27 in the field for CPS on the William Beaumont Army Medical Center program. We currently hold IDIQ's with both San Francisco District and Tulsa District for the provision of CPS on projects designed by third party firms. As a part of the San Francisco District IDIQ, we are currently providing field staff at three sectors for assistance to USACE in the construction oversight of multiple sections (totaling 135 miles) of border infrastructure, as follows: El Paso/Yuma ($700 M); Tucson ($2.74 B); San Diego 4 ($70 M). Services typically include provision of QAR's (Quality Assurance Representative) for construction inspection reporting to the USACE Resident Engineer (RE), review of shop drawings; incorporation of changes to the documents; evaluation of requests for information (RFI's); and clarifications.

I. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.	
31. SIGNATURE	32. DATE 07/09/2021
33. NAME AND TITLE Manish Mardia, PE – Project Manager	

PART II

PART II

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*: **140F0521R0003**

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
2c. CITY	New Orleans
2d. STATE	LA
2e. ZIP CODE	70119
5. OWNERSHIP	
a. TYPE	**Joint Venture**
b. SMALL BUSINESS STATUS	**Small Business**
6a. POINT OF CONTACT NAME AND TITLE	**Manish Mardia, Joint Venture Chairman**
7. NAME OF FIRM *(If block 2a is a branch office)*	
6b. TELEPHONE NUMBER	504-559-1897
6c. E-MAIL ADDRESS	mmardia@msmmeng.com
8a. FORMER FIRM NAME(S) *(If any)*	
8b. YR. ESTABLISHED	
8c. DUNS NUMBER	

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees (1) FIRM	c. No. of Employees (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		

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

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*

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

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: **July 24, 2019**

c. NAME AND TITLE
Manish Mardia, Joint Venture Chairman

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (*If any*): 140F0521R0003

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 Engineering, LLC
2b. STREET	4640 South Carrollton Avenue, Suite 220
2c. CITY	New Orleans
2d. STATE	LA
2e. ZIP CODE	70119
6a. POINT OF CONTACT NAME AND TITLE	Manish Mardia, P.E., President/Owner
6b. TELEPHONE NUMBER	504-559-1897
6c. EMAIL ADDRESS	mmardia@msmmeng.com
3. YEAR ESTABLISHED	2011
4. UNIQUE ENTITY IDENTIFIER	969989370
5. OWNERSHIP	
a. TYPE	Limited Liability Corporation
b. SMALL BUSINESS STATUS	Small Business
7. NAME OF FIRM *(If block 2a is a branch office)*	
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 (1) FIRM	c. No. of Employees (2) BRANCH	a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
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 *(Insert revenue index number shown at right)*	
a. Federal Work	5
b. Non-Federal Work	5
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	March 18, 2019
c. NAME AND TITLE	Manish Mardia, P.E., President/Owner

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (*If any*): 140F0521R0003

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 Engineering, LLC (Houston Texas Office)
3. YEAR ESTABLISHED	2011
4. UNIQUE ENTITY IDENTIFIER	071392535
2b. STREET	13850 Gulf Freeway Suite 202A
2c. CITY	Houston
2d. STATE	Tx
2e. ZIP CODE	77034
5. OWNERSHIP	
a. TYPE	Limited Liability Corporation
b. SMALL BUSINESS STATUS	Small Business
6a. POINT OF CONTACT NAME AND TITLE	Manish Mardia, P.E., President/Owner
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 (1) FIRM	c. No. of Employees (2) BRANCH	a. Profile Code	b. Experience	c. Revenue Index Number (*see below*)
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	2		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 (*Insert revenue index number shown at right*)	
a. Federal Work	5
b. Non-Federal Work	5
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	March 18, 2019
c. NAME AND TITLE	Manish Mardia, P.E., President/Owner

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*: 140F0521R0003

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**
2c. CITY	**Dallas**
2d. STATE	**Texas**
2e. ZIP CODE	**75240**
5. OWNERSHIP a. TYPE	**Corporation**
b. SMALL BUSINESS STATUS	**Large Business**
6a. POINT OF CONTACT NAME AND TITLE	**Robert J. McDermott, PE, President**
6b. TELEPHONE NUMBER	**214-871-3311**
6c. E-MAIL ADDRESS	**mcdermott@huitt-zollars.com**
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

a. Function Code	b. Discipline	c. Number of Employees (1) FIRM	c. Number of Employees (2) BRANCH
02	Administrative	68	37
05	Archeologist	1	
06	Architect	90	4
08	CADD Technician	46	11
12	Civil Engineer	159	33
15	Construction Inspector	4	
16	Construction Manager	10	1
21	Electrical Engineer	16	
23	Environmental Engineer	2	1
25	Fire Protection Engineer	2	
37	Interior Designer	6	1
38	Land Surveyor	57	16
39	Landscape Architect	6	6
42	Mechanical Engineer	24	1
47	Planner: Urban/Regional	4	
57	Structural Engineer	17	7
60	Transportation Engineer	15	9
62	Water Resource Engineer	12	7
	Other Employees		
	Total	539	134

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

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
A06	Airports; Terminals and Hangars; Freight Handling	1
B02	Bridges	7
C15	Construction Management	6
C16	Construction Surveying	6
D04	Design-Build – Preparation of RFPs	4
G01	Garages; Vehicles Maintenance Facilities;	6
H04	Heating; Ventilating; Air Conditioning	6
H07	Highways; Streets; Airfield Paving; Parking	8
H11	Housing (Residential, Multi-Family; Apartments)	3
I06	Irrigation; Drainage	6
L02	Land Surveying	7
L03	Landscape Architecture	6
P06	Planning (Site, Installation and Project)	7
R04	Recreation Facilities (Parks, Marinas, Etc.)	4
S04	Sewage Collection, Treatment and Disposal	7
S10	Surveying; Platting; Mapping; Flood Plain	6
S11	Sustainable Design	6
S13	Storm Water Handling and Facilities	5
T04	Topographic Surveying and Mapping	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	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: 7/06/2021

c. NAME AND TITLE

Monica Kent, PE, LEED AP, Senior Vice President

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*: 140F0521R0003

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**

2c. CITY: **Fort Worth**

2d. STATE: **Texas**

2e. ZIP CODE: **76102-4728**

5. OWNERSHIP

a. TYPE: **Corporation**

b. SMALL BUSINESS STATUS: **Large Business**

6a. POINT OF CONTACT NAME AND TITLE: **Larry O. Rogers, PE, Vice President**

6b. TELEPHONE NUMBER: **817-335-3000**

6c. E-MAIL ADDRESS: **lrogers@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

a. Function Code	b. Discipline	c. Number of Employees (1) FIRM	c. Number of Employees (2) BRANCH
02	Administrative	68	4
05	Archeologist	1	
06	Architect	90	11
08	CADD Technician	46	6
12	Civil Engineer	159	7
15	Construction Inspector	4	
16	Construction Manager	10	1
21	Electrical Engineer	16	10
23	Environmental Engineer	2	
25	Fire Protection Engineer	2	1
37	Interior Designer	6	
38	Land Surveyor	57	
39	Landscape Architect	6	
42	Mechanical Engineer	24	14
47	Planner: Urban/Regional	4	
57	Structural Engineer	17	4
60	Transportation Engineer	15	
62	Water Resource Engineer	12	
	Other Employees		
	Total	539	58

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

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
A09	Anti-Terrorism/Force Protection	4
B01	Barracks; Dormitories	4
C15	Construction Management	2
D04	Design-Build Preparation RFP's	3
D07	Dining Halls; Clubs; Restaurants	2
E02	Educational Facilities; Classrooms	2
E05	Elevators; Escalators; People-Movers	1
E07	Energy Conservation; New Energy Sources	5
F03	Fire Protection	4
G01	Garages; Vehicle Maintenance Facilities;	5
H07	Highways; Streets; Airfield Paving; Parking	4
H11	Housing (Residential, Multi-Family;	3
I01	Industrial Buildings; Manufacturing Plants	5
I05	Interior Design; Space Planning	2
I06	Irrigation; drainage	
J01	Judicial and Courtroom Facilities	4
M05	Military Design Standards	3
O01	Office Buildings; Industrial Parks	5
P08	Prisons & Correctional Facilities	2
R06	Rehabilitation (Buildings; Structures; Fac's)	5
S11	Sustainable Design	6
Warehous	5	
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: MK

b. DATE: 7/06/2021

c. NAME AND TITLE: **Monica Kent, PE, LEED AP, Senior Vice President**

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*: 140F0521R0003

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	
a. TYPE	**Corporation**
2c. CITY	**Houston**
2d. STATE	**Texas**
2e. ZIP CODE	**77042-4248**
b. SMALL BUSINESS STATUS	**Large Business**
6a. POINT OF CONTACT NAME AND TITLE	**Gregory R. Wine, PE, LEED AP, Vice President**
7. NAME OF FIRM *(If Block 2a is a Branch Office)*	**Huitt-Zollars, Inc.**
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

a. Function Code	b. Discipline	c. Number of Employees (1) FIRM	c. Number of Employees (2) BRANCH
02	Administrative	68	5
05	Archeologist	1	
06	Architect	90	2
08	CADD Technician	46	4
12	Civil Engineer	159	25
15	Construction Inspector	4	1
16	Construction Manager	10	5
21	Electrical Engineer	16	1
23	Environmental Engineer	2	
25	Fire Protection Engineer	2	
37	Interior Designer	6	1
38	Land Surveyor	57	4
39	Landscape Architect	6	
42	Mechanical Engineer	24	2
47	Planner: Urban/Regional	4	
57	Structural Engineer	17	
60	Transportation Engineer	15	
62	Water Resource Engineer	12	1
	Other Employees		
	Total	539	51

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

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
B01	Barracks; Dormitories	2
C15	Construction Management	5
D04	Design-Build – Prep RFPs	4
E02	Educational Facilities; Classrooms	4
G01	Garages; Vehicles Maintenance Facilities;	4
H01	Harbors; Jetties, Piers, Ship Terminal Facilities	3
H07	Highways; Streets; Airfield Paving; Parking Lots	6
I05	Interior Design; Space Planning	2
O01	Office Buildings, Industrial Parks	3
R03	Railroad; Rapid Transit	7
R04	Recreation Facilities (Parks, Marinas, Etc.)	5
R06	Rehabilitation (Buildings; Structures;	6
R11	Rivers; Canals; Waterways; Flood Control	6
S04	Sewage Collection; Treatment and Disposal	5
S10	Surveying; Platting; Mapping; Flood Plain	5
S11	Sustainable Design	4
S13	Storm Water Handling and Facilities	4
T03	Traffic and Transportation Engineering	3
T04	Topographic Surveying and Mapping	5

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	7
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: MK

b. DATE: 7/06/2021

c. NAME AND TITLE: **Monica Kent, PE, LEED AP, Senior Vice President**

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*: 140F0521R0003

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	**969626654**
2b. STREET	**6501 Americas Parkway NE, Suite 830**
2c. CITY	**Albuquerque**
2d. STATE	**New Mexico**
2e. ZIP CODE	**87110-5372**
5. OWNERSHIP a. TYPE	**Corporation**
b. SMALL BUSINESS STATUS	**Large Business**
6a. POINT OF CONTACT NAME AND TITLE	**Kim R. Kemper, PE, Sr. Vice President**
6b. TELEPHONE NUMBER	**505-883-8114**
6c. E-MAIL ADDRESS	**krkemper@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

a. Function Code	b. Discipline	c. Number of Employees (1) FIRM	c. Number of Employees (2) BRANCH
02	Administrative	68	1
05	Archeologist	1	1
06	Architect	90	8
08	CADD Technician	46	2
12	Civil Engineer	159	
15	Construction Inspector	4	
16	Construction Manager	10	
21	Electrical Engineer	16	
23	Environmental Engineer	2	
25	Fire Protection Engineer	2	
37	Interior Designer	6	
38	Land Surveyor	57	
39	Landscape Architect	6	
42	Mechanical Engineer	24	
47	Planner: Urban/Regional	4	
57	Structural Engineer	17	
60	Transportation Engineer	15	
62	Water Resource Engineer	12	
	Other Employees		
	Total	539	12

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

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
A06	Airports; Terminals and Hangars; Freight Handling	1
CO2	Cemeteries *(Planning & Relocation)*	3
C11	Community Facilities	2
E02	Educational Facilities; Classrooms	3
G01	Garages; Vehicle Maintenance Facilities;	2
H09	Hospital & Medical Facilities	2
I05	Interior Design; Space Planning	3
JO1	Judicial and Courtroom Facilities	2
LO4	Libraries; Museum; Galleries	2
O01	Office Buildings; Industrial Parks	2
P13	Public Safety Facilities	3
R06	Rehabilitation (Buildings; Structures;	3
R12	Roofing	1
S11	Sustainable Design	3
W01	Warehouses & Depots	2

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	5
c. Total Work	5

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: MK

b. DATE: 7/06/2021

c. NAME AND TITLE: **Monica Kent, PE, LEED AP, Senior Vice President**

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*: 140F0521R0003

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: **177865016**

2b. STREET: **818 Stewart Street, Suite 1120**

2c. CITY: **Seattle/Tacoma**

2d. STATE: **Washington**

2e. ZIP CODE: **98101-1479**

6a. POINT OF CONTACT NAME AND TITLE: **Francis J. Wall, PE, Vice President**

6b. TELEPHONE NUMBER: **206-324-5500**

6c. E-MAIL ADDRESS: **fjwall@huitt-zollars.com**

5. OWNERSHIP

a. TYPE: **Corporation**

b. SMALL BUSINESS STATUS: **Large Business**

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

a. Function Code	b. Discipline	c. Number of Employees (1) FIRM	c. Number of Employees (2) BRANCH
02	Administrative	68	1
05	Archeologist	1	
06	Architect	90	
08	CADD Technician	46	3
12	Civil Engineer	159	11
15	Construction Inspector	4	
16	Construction Manager	10	
21	Electrical Engineer	16	
23	Environmental Engineer	2	
25	Fire Protection Engineer	2	
37	Interior Designer	6	
38	Land Surveyor	57	3
39	Landscape Architect	6	
42	Mechanical Engineer	24	
47	Planner: Urban/Regional	4	2
57	Structural Engineer	17	
60	Transportation Engineer	15	2
62	Water Resource Engineer	12	1
	Other Employees		
	Total	539	23

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

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
B02	Bridges	3
G01	Garages; Vehicle Maintenance Facilities;	4
G02	Gas Systems (Propane, Natural, Etc.)	2
H04	Heating; Ventilating; Air	3
H11	Housing (Residential, Multi-Family;	2
I01	Industrial Buildings; Manufacturing Plants	4
L02	Land Surveying	3
L03	Landscape Architecture	5
P06	Planning (Site, Installation, & Project)	1
P07	Plumbing & Piping Design	2
R06	Rehabilitation (Buildings; Structures;	2
S05	Soils & Geologic Studies; Foundations	2
S09	Structural Design; Special Structures	1
S11	Sustainable Design	3
S13	Storm Water Handling & Facilities	2
U03	Utilities (gas & steam)	2
W01	Warehouses & Depots	3

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: MK

b. DATE: 7/06/2021

c. NAME AND TITLE: **Monica Kent, PE, LEED AP, Senior Vice President**

ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*
140F0521R0003

PART II – GENERAL QUALIFICATIONS

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

2a. FIRM *(or Branch Office)* NAME
Poole Fire Protection, Inc.

3. YEAR ESTABLISHED
2006 (1991)

4. UNIQUE ENTITY IDENTIFIER
79-209-9004

2b. STREET
19910 West 161st Street

5. OWNERSHIP

a. TYPE
"S" Corporation

2c. CITY
Olathe

2d. STATE
KS

2e. ZIP CODE
66062

b. SMALL BUSINESS STATUS
541330
Small Business, Woman-Owned Business

6a. POINT OF CONTACT NAME AND TITLE
Laura Poole, President

7. NAME OF FIRM *(If block 2a is a branch office)*

6b. TELEPHONE NUMBER
913-747-2040

6c. E-MAIL ADDRESS
lpoole@poolefire.com

8a. FORMER FIRM NAME(S) *(If any)*		8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER
Poole Consulting Services, Inc.	11/30/1999 - 03/08/2006	1999	79-209-9004
Poole Fire Protection Engineering, Inc.	07/18/1991 - 11/29/1999	1991	79-209-9004

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees (1) FIRM	(2) BRANCH
48	Project Manager	1	1
25	Fire Protection Engineer	10	8
58	Design Tech/Code Consultant	4	4
02	Administrative	3	3
	Other Employees	0	0
	Total	18	16

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

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
A06	Airports; Terminals; & Hangars; Freight	4
A09	Anti-Terrorism/Force Protection	6
A11	Auditoriums & Theatres	1
B01	Barracks; Dormitories	1
C08	Codes; Standards; Ordinances	6
C18	Cost Estimating; Cost Engineering and	4
E02	Educational Facilities; Classrooms	1
F03	Fire Protection	6
G01	Garages; Vehicle Maintenance Facilities;	2
H06	Highrise; Air-Rights-Type Buildings	2
H08	Historical Preservation	2
H09	Hospitals & Medical Facilities	3
H11	Housing (Residential, Multifamily,	3
I01	Industrial Buildings; Manufacturing Plants	3
J01	Judicial and Courtroom Facilities	1
L01	Laboratories; Medical Research Facilities	1
M05	Military Design Standards	6
O01	Office Building; Industrial Parks	4
P12	Power Generation, Transmission,	2
P08	Prisons & Correctional Facilities	1
R04	Recreational Facilities (Parks; Marinas; etc.)	1
W01	Warehouses & Depots	3

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
Laura Poole

b. DATE
May 28, 2021

c. NAME AND TITLE
Laura Poole, President

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*: 140F0521R003

PART II – GENERAL QUALIFICATIONS

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

2a. FIRM *(or Branch Office)* NAME	**Terracon Consultants, Inc.**
3. YEAR ESTABLISHED	**1999**
4. UNIQUE ENTITY IDENTIFIER	**028278740**
2b. STREET	**6805 Academy Parkway West NE**
5. OWNERSHIP a. TYPE	**Corporation**
2c. CITY	**Albuquerque**
2d. STATE	**NM**
2e. ZIP CODE	**87109**
b. SMALL BUSINESS STATUS	**N/A**
6a. POINT OF CONTACT NAME AND TITLE	**Dave Matson, CHMM, Office Manager**
6b. TELEPHONE NUMBER	**(505) 797 4287**
6c. E-MAIL ADDRESS	**Dave.Matson@terracon.com**
7. NAME OF FIRM *(if block 2a is a Branch Office)*	**Terracon Consultants, Inc. (Est. 1965, DUNS No. 613569961)**
8a. FORMER FIRM NAME(S) (if any)	**None**
8b. YEAR ESTABLISHED	
8c. UNIQUE ENTITY IDENTIFIER	

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees (1) FIRM	c. No. of Employees (2) BRANCH
02	Administrative	564	2
05	Archaeologist	34	
06	Architect	20	
07	Biologist	42	2
08	CADD Technician	37	
12	Civil Engineer	80	
14	Computer Programmer/IT	70	
15	Construction Inspector	211	2
23	Environmental Engineer	110	1
24	Environmental Scientist	401	5
26	Forensic (Building Diagnostic) Engr	23	
27/55	Foundation/Geotechnical/Soils Engr	424	6
29	Geographic Info. Systems	10	
30	Geologist	257	1
36	Industrial Hygienist & Safety Specialist	110	1
40	Construction Materials/Pavement Engr	103	3
48	Project Manager	497	5
58	Technician (Field & Testing Lab)	1700	15
	Driller	209	
	Bldg Enclosure/Roofing Consultants/ Bldg Commissioning	59	
	Structural Steel Inspector	76	
	Geophysicist	15	
	Certified Commercial Diver	4	
	Other Employees	104	
Total		**5160**	

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

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
A06	Airports	9
B02	Bridges	8
C06	Churches	6
C10	Commercial Building Retail (Low Rise)	10
D01, D02	Dams, Dikes, Levees	7
E02	Educational; Classrooms	9
E07	Energy Conservation; Renewable Energy	9
E09	EIS; Assessments	8
E12, HO03	Env. Remediation, HTRW	9
H07	Highways; Streets; Parking	10
H09	Medical Facilities	9
H10	Hotels; Motels	8
H11	Multi-Family Housing	9
I01, W01	Industrial; Manufacturing; Warehouse; Depots	10
O01	Office Buildings	9
P04	Pipelines	9
P12	Power Gen., Transmission, Distribution	9
R03	Railroad; Rapid Transit	7
R12	Roofing	4
S03	Seismic Designs and Studies	3
S05	Soils/Geologic Studies; Foundations	10
S07	Solid Waste Facilities	8
S13	Storm Water	6
T02	Testing and Inspection Services	10
W02	Water Resources; Hydrology; Groundwater	6
W03	Water Supply, Treatment; Distribution	7

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

(Insert revenue index number shown at right)

a. Federal Work	8
b. Non-Federal Work	10
c. Total Work	**10**

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: June 8, 2020

c. NAME AND TITLE: **Dave Matson, CHMM, Office Manager**

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*: 140F0521R003

PART II – GENERAL QUALIFICATIONS

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

2a. FIRM *(or Branch Office)* NAME	**Terracon Consultants, Inc.**
3. YEAR ESTABLISHED	**1993**
4. UNIQUE ENTITY IDENTIFIER	**959349812**
2b. STREET	**10625 W I-70 Frontage Road North, Suite 3**
5. OWNERSHIP a. TYPE	**Corporation**
2c. CITY	**Wheat Ridge**
2d. STATE	**CO**
2e. ZIP CODE	**80033**
b. SMALL BUSINESS STATUS	**N/A**
6a. POINT OF CONTACT NAME AND TITLE	**Mathew B. Fielding, P.E., Office Manager**
6b. TELEPHONE NUMBER	**(303) 423 3300**
6c. E-MAIL ADDRESS	**Mat.Fielding@terracon.com**
7. NAME OF FIRM *(if block 2a is a Branch Office)*	**Terracon Consultants, Inc. (Est. 1965, DUNS No. 613569961)**
8a. FORMER FIRM NAME(S) (if any)	**None**
8b. YEAR ESTABLISHED	
8c. UNIQUE ENTITY IDENTIFIER	

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees (1) FIRM	c. No. of Employees (2) BRANCH
02	Administrative	564	9
05	Archaeologist	34	1
06	Architect	20	1
07	Biologist	42	
08	CADD Technician	37	1
12	Civil Engineer	80	
14	Computer Programmer/IT	70	
15	Construction Inspector	211	4
23	Environmental Engineer	110	4
24	Environmental Scientist	401	7
26	Forensic (Building Diagnostic) Engr	23	
27/55	Foundation/Geotechnical/Soils Engr	424	5
29	Geographic Info. Systems	10	
30	Geologist	257	8
36	Industrial Hygienist & Safety Specialist	110	6
40	Construction Materials/Pavement Engr	103	2
48	Project Manager	497	4
58	Technician (Field & Testing Lab)	1700	30
	Driller	209	6
	Bldg Enclosure/Roofing Consultants/ Bldg Commissioning	59	6
	Structural Steel Inspector	76	2
	Geophysicist	15	
	Certified Commercial Diver	4	
	Other Employees	104	
Total		**5160**	**96**

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

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
A06	Airports	9
B02	Bridges	8
C06	Churches	6
C10	Commercial Building Retail (Low Rise)	10
D01, D02	Dams, Dikes, Levees	7
E02	Educational; Classrooms	9
E07	Energy Conservation; Renewable Energy	9
E09	EIS; Assessments	8
E12, HO03	Env. Remediation, HTRW	9
H07	Highways; Streets; Parking	10
H09	Medical Facilities	9
H10	Hotels; Motels	8
H11	Multi-Family Housing	9
I01, W01	Industrial; Manufacturing; Warehouse; Depots	10
O01	Office Buildings	9
P04	Pipelines	9
P12	Power Gen., Transmission, Distribution	9
R03	Railroad; Rapid Transit	7
R12	Roofing	4
S03	Seismic Designs and Studies	3
S05	Soils/Geologic Studies; Foundations	10
S07	Solid Waste Facilities	8
S13	Storm Water	6
T02	Testing and Inspection Services	10
W02	Water Resources; Hydrology; Groundwater	6
W03	Water Supply, Treatment; Distribution	7

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

(Insert revenue index number shown at right)

a. Federal Work	8
b. Non-Federal Work	10
c. Total Work	**10**

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: June 8, 2020

c. NAME AND TITLE: **Mathew B. Fielding, P.E., Office Manager**

ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*
140F0521R0003

PART II – GENERAL QUALIFICATIONS

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

2a. FIRM (OR BRANCH OFFICE) NAME	Tetra Tech, Inc.
3. YEAR ESTABLISHED	2012
4. UNIQUE ENTITY IDENTIFIER	07-831-9701
2b. STREET	400 112th Avenue NE, Suite 300
2c. CITY	Bellevue
2d. STATE	WA
2e. ZIP CODE	98004
5. OWNERSHIP a. TYPE	Corporation
b. SMALL BUSINESS STATUS	N/A
6a. POINT OF CONTACT NAME AND TITLE	Kathy Cox-Czosnyka, PE – Northwest Regional Manager
6b. TELEPHONE NUMBER	(425) 635-1000
6c. E-MAIL ADDRESS	kathy.cox-czosnyka@tetratech.com
7. NAME OF FIRM *(If block 2a is a branch office)*	Tetra Tech, Inc.
8a. FORMER FIRM NAME(S) *(If any)*	Inca Engineers
8b. YEAR ESTABLISHED	1983
8c. UNIQUE ENTITY IDENTIFIER	10-339-2619

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees (1) FIRM	c. No. of Employees (2) BRANCH
02	Administrative	1,735	6
08	CADD Technician	259	4
12	Civil Engineer	754	4
21	Electrical Engineer	495	3
42	Mechanical Engineer	660	4
48	Project Manager	1,918	8
57	Structural Engineer	228	8
	Graphic Artist/Designer	59	1
	Other Employees	14,207	0
	Total	20,315	38

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

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
B02	Bridges	2
C07	Coastal Engineering	2
D01	Dams (Concrete; Arch)	3
D02	Dams (Earth; Rock; Dikes; Levees)	4
D04	Design-Build - Preparation of RFPs	3
E03	Electrical Studies & Design	1
E11	Environmental Planning	4
F03	Fire Protection	2
F04	Fisheries; Fish Ladders	5
G06	Graphic Design	1
H01	Harbors; Jetties; Piers, Ship Term. Fac.	2
N02	Navigation Structures; Locks	2
R10	Risk Analysis	2
R11	Rivers; Canals; Waterways; Flood Control	6
S09	Structural Design; Special Structures	1
S10	Survey; Plot; Map; Flood Plain Studies	1
S11	Sustainable Design	1
S13	Storm Water Handling & Facilities	2
T03	Traffic & Transportation Engineering	1
W02	Water Resources; Hydrology; Ground Water	1

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	6
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: KClemens

b. DATE: 4/21/21

c. NAME AND TITLE: Kristi Clemens, Marketing Manager

KOMATSU ARCHITECTURE

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*: 140F0521R0003

PART II - GENERAL QUALIFICATIONS

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

2a. FIRM (*or Branch Office*) NAME	Komatsu / Rangel, Inc. DBA Komatsu Architecture
3. YEAR ESTABLISHED	1991 / 1959
4. UNIQUE ENTITY IDENTIFIER	08-229-7809
2b. STREET	3880 Hulen Street, Suite 300
2c. CITY	Fort Worth
2d. STATE	TX
2e. ZIP CODE	76104
5. OWNERSHIP a. TYPE	Chapter S Corporation
b. SMALL BUSINESS STATUS	(MBE) (SBE) (HUB)
6a. POINT OF CONTACT NAME AND TITLE	Karl A. Komatsu, President
6b. TELEPHONE NUMBER	(817) 332-1914
6c. E-MAIL ADDRESS	kkomatsu@komatsu-inc.com
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
Komatsu & Associates, Inc,: Albert S. Komatsu & Associates	1984 / 1959	08-229-7809

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. Number of Employees (1) FIRM	c. Number of Employees (2) BRANCH
02	Administrative	2	
06	Architect	7	
08	CADD Technician	6	
37	Interior Designer	2	
	Other Employees		
	Total	17	

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

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
A06	Airports, Terminal, Hangars; Freight	1
C02	Cemeteries	2
C10	Commercial Buildings; Shopping Centers	5
C11	Community Facilities	1
E02	Educational Facilities; Classrooms	3
H08	Historic Preservation	3
H10	Hotels; Motels	1
H11	Housing (Resid, Multi-Family, Apt, Condo)	1
I05	Interior Design; Space Planning	1
J01	Judicial & Courtroom Facilities	1
L04	Libraries, Museums, Galleries	3
O01	Office Buildings; Industrial Parks	1
P05	Planning (Community, Regional, Area, St)	1
P06	Planning (Site, Installation and Project)	3
P11	Postal Facilities	1
P13	Public Safety Facilities	2
R03	Railroad; Rapid Transit	1
R04	Recreation Facilities	3
S11	Sustainable Design	1
W01	Warehouses & Depots	1

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	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. SIGNATUR: Karl A. Komatsu

b. DATE: January 06, 2021

c. NAME AND TITLE: Karl A. Komatsu, President

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*: 140F0521R0003

PART II - GENERAL QUALIFICATIONS

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

2a. FIRM (*or Branch Office*) NAME	C. Nissley Environmental Consultants, Inc.
2b. STREET	11623 Wasatch Road
2c. CITY	Longmont
2d. STATE	CO
2e. ZIP CODE	80504
3. YEAR ESTABLISHED	2001
4. UNIQUE ENTITY IDENTIFIER	876926986
5. OWNERSHIP a. TYPE	Corporation
b. SMALL BUSINESS STATUS	
6a. POINT OF CONTACT NAME AND TITLE	Claudia Nissley
6b. TELEPHONE NUMBER	3037767603
6c. E-MAIL ADDRESS	cnissleyenviro@gmail.com
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

a. Function Code	b. Discipline	c. Number of Employees (1) FIRM	c. Number of Employees (2) BRANCH
	Environment, Cultural Resource	1	
	Native American Law Specialist		
	Other Employees		
	Total		

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

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
CO2	Cemeteries,Planning,Relocation	1
C14	Conservation Resource Managem	1
E01	Ecological & Archeological Investigations	1
E09	Environmental Impact Studies Assessments or Statements	1
E11	Environmental Planning	1
H08	Historical Preservation	1
R06	Rehabilitation (Buildings, Structure Facilities	1
Z01	Zoning: Land Use Studies	1
	Environmental & Cultural Property Federal Law	2

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

(Insert revenue index number shown at right)

a. Federal Work	2
b. Non-Federal Work	1
c. Total Work	2

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: Digitally signed by Claudia Nissley Date: 2021.06.14 09:01:31 -06'00'

b. DATE: June 14, 2021

c. NAME AND TITLE

ARCHITECT- ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*
140F0521R0003

PART II – GENERAL QUALIFICATIONS

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

2a. FIRM (OR BRANCH OFFICE) NAME **Vernadero Group Incorporated**		3. YEAR ESTABLISHED **1999**	4. DUNS NUMBER **114054054**
2b. STREET **2730 E. Camelback Rd, #210**		5. OWNERSHIP	
2c. CITY **Phoenix**	2d. STATE **AZ**	2e. ZIP CODE **85016**	a. TYPE **Corporation**
6a. POINT OF CONTACT NAME AND TITLE **Eric Webb, President**		b. SMALL BUSINESS STATUS **Veteran-Owned SB (NAICS 541330)**	
6b. TELEPHONE NUMBER **(866) 708-7640**	6c. E-MAIL ADDRESS **ewebb@vernadero.com**	7. NAME OF FIRM *(If block 2a is a branch office)* **Vernadero Group Incorporated**	
8a. FORMER FIRM NAME(S) *(If any)*		8b. YR. ESTABLISHED	8c. DUNS NUMBER

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees (1) FIRM	c. No. of Employees (2) BRANCH
02	Administrative	**2**	**2**
07	Biologist	**4**	**1**
42	Mechanical Engineer	**1**	
16	Construction Manager	**3**	**2**
19	Ecologist	**2**	
29	Geographic Information System	**2**	
47	Planner: Urban/Regional	**4**	
48	Project Manager	**4**	**1**
	Total	**22**	**6**

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

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
C14	Conservation & Res Mgmt	**4**
C15	Construction Management	**5**
E01	Ecological & Archeological Invst	**4**
E07	Energy Conservation	**1**
E09	Environmental Impact Studies, Assessments or Statements	**5**
E10	Environmental & Natural Resource Mapping	**2**
E11	Environmental Planning	**5**
E12	Environmental Remediation	**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**
S05	Soils & Geologic Studies	**1**
S10	Surveying; Platting; Mapping; Flood Plain Studies	**1**
W02	Water Res; Hydrology	**1**

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

a. Federal Work	8
b. Non-Federal Work	1
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 **18 June 2021**

Eric Webb, President, Vernadero Group Incorporated

ARCHITECT-ENGINEER QUALIFICATIONS	1. SOLICITATION NUMBER (If any) 140F0521R0003

PART II – GENERAL QUALIFICATIONS

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

2a. FIRM *(or Branch Office)* NAME			3. YEAR ESTABLISHED	4. UNIQUE ENTITY IDENTIFIER
AH Environmental Consultants, Inc.			1996	966424061
2b. STREET			5. OWNERSHIP	
11837 Rock Landing Dr., Suite 300			a. TYPE	
2c. CITY	2d. STATE	2e. ZIP CODE	"S" Corporation	
Newport News	VA	23606	b. SMALL BUSINESS STATUS	
6a. POINT OF CONTACT NAME AND TITLE			Small	
Sean McNamara P.E., Vice President			7. NAME OF FIRM *(if block 2a is a branch office)*	
6b. TELEPHONE NUMBER	6c. E-MAIL ADDRESS			
(757) 873-4959	smcnamara@ahenv.com			
8a. FORMER FIRM NAME(S) (if any)			8b. YR. ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of employees (1) FIRM	c. No. of employees (2) BRANCH
02	Administrative	2	2
07	Biologist	3	2
08	CADD Technician	2	1
10	Chemical Engineer	1	1
11	Chemist	1	1
12	Civil Engineer	11	6
23	Environmental Engineer	12	8
29	GIS Specialist	3	3
30	Geologists	1	
36	Industrial Hygienist	1	1
42	Mechanical Engineer	1	1
62	Water Resource Engineer	1	1
	Other Employees		
	Total	39	27

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

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
E09	Env. Impact Studies, Assessments, or Statements	3
E11	Environmental Planning	4
E13	Environmental Testing and Analysis	4
S04	Sewage Collection, Treatment and Disposal	5
S07	Solid Wastes; Incineration; Landfill	2
S13	Storm Water Handling & Facilities	6
W02	Water Resources; Hydrology; Ground Water	2
W03	Water Supply; Treatment and Distribution	6

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

(Insert revenue index number shown at right)

a. Federal Work	7
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

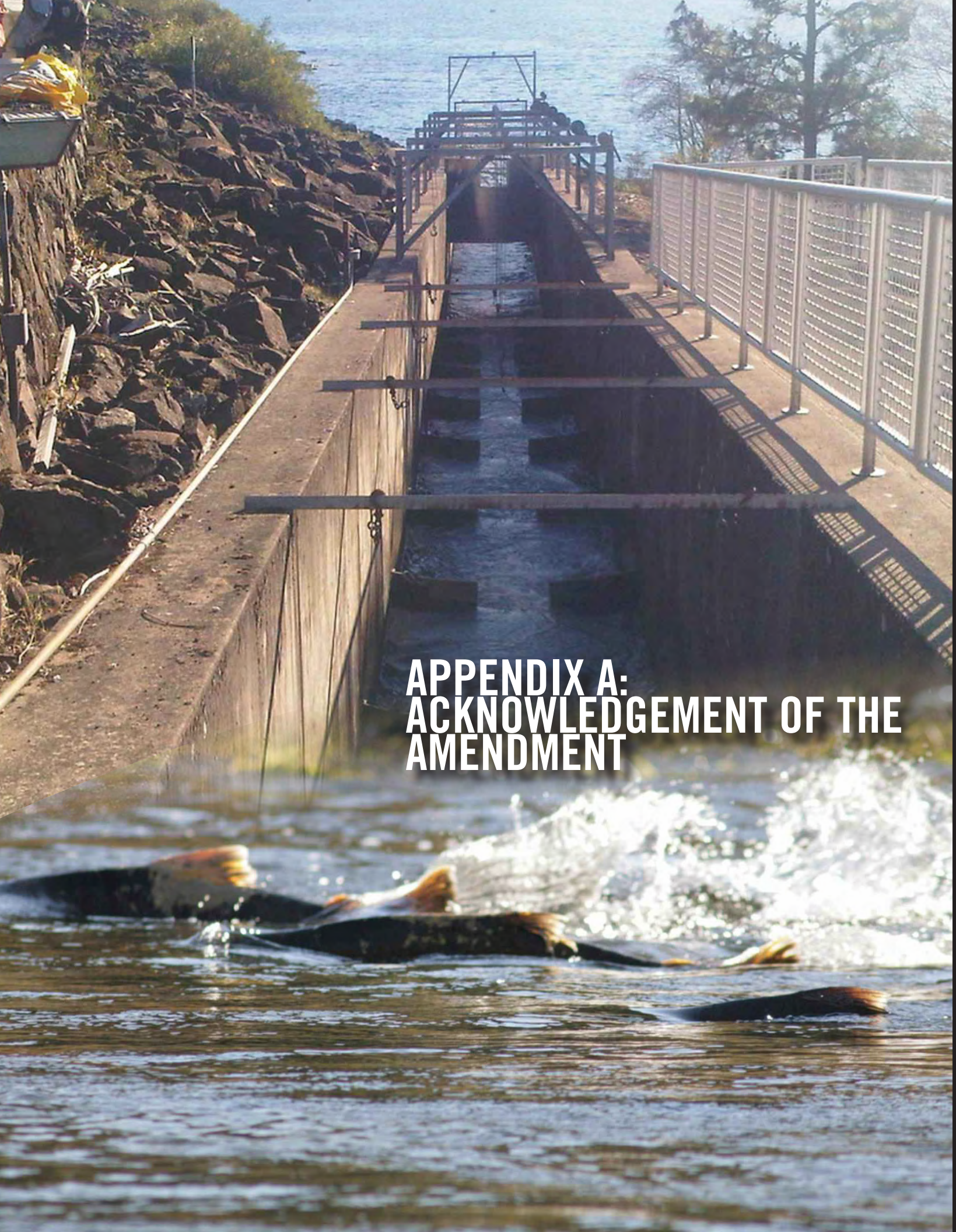
12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE	b. DATE
Sean P. McNamara Digitally signed by Sean P. McNamara Date: 2021.06.22 12:58:51 -04'00'	June 22, 2021

c. NAME AND TITLE

Sean P. McNamara, Vice President



APPENDIX A: ACKNOWLEDGEMENT OF THE AMENDMENT

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE	OF PAGES
	1	2

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
0001	05/12/2021		

6. ISSUED BY CODE F05

FWS, DIVISION OF CONTRACTING AND GE
300 WESTGATE CENTER DRIVE
SUITE 310
Hadley MA 01035-9589

7. ADMINISTERED BY *(If other than Item 6)* CODE

8. NAME AND ADDRESS OF CONTRACTOR *(No., street, county, State and ZIP Code)*

CODE FACILITY CODE

(x) 9A. AMENDMENT OF SOLICITATION NO. 140F0521R0003

x 9B. DATED *(SEE ITEM 11)* 05/12/2021

10A. MODIFICATION OF CONTRACT/ORDER NO.

10B. DATED *(SEE ITEM 13)*

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☒ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☒ is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended , by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted ; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted , such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA *(If required)*

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	
	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: *(Specify authority)* THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES *(such as changes in paying office, appropriation data, etc.)* SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER *(Specify type of modification and authority)*

E. IMPORTANT: Contractor ☐ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION *(Organized by UCF section headings, including solicitation/contract subject matter where feasible.)*

The purpose of this amendment is to provide the following information:

1. Link to the A&E industry day presentation

Video link (same as the original event link):
https://teams.microsoft.com/l/meetup-join/19%3ameeting_OGZjZTExOTItOWU4Yy00ZmQzLWI3YzEtZDZiMzhiMjM5ZGUw%40thread.v2/0?context=%7b%22Tid%22%3a%220693b5ba-4b18-4d7b-9341-f32f400a5494%22%2c%22Oid%22%3a%22f403679b-22f8-44bf-be6c-fabdcbfe8cbc%22%2c%22IsBroadcastMeeting%22%3atrue%7d

2. List of contractors pre-registrations by state (See attachment 7)

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER *(Type or print)*		16A. NAME AND TITLE OF CONTRACTING OFFICER *(Type or print)*	
Monica Kent, PE - Joint Venture Chair		Ryan Boisvert	
15B. CONTRACTOR/OFFEROR *(Signature of person authorized to sign)*	15C. DATE SIGNED 7/7/21	16B. UNITED STATES OF AMERICA *(Signature of Contracting Officer)*	16C. DATE SIGNED

NAME OF OFFEROR OR CONTRACTOR

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Questions that have been provided are still being worked on. We plan to have the next amendment posted by the Friday, May 28th, 2021.				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE	OF PAGES
	1	2

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
0002	05/12/2021		

6. ISSUED BY CODE F05

FWS, DIVISION OF CONTRACTING AND GE
300 WESTGATE CENTER DRIVE
SUITE 310
Hadley MA 01035-9589

7. ADMINISTERED BY *(If other than Item 6)* CODE

8. NAME AND ADDRESS OF CONTRACTOR *(No., street, county, State and ZIP Code)*

CODE FACILITY CODE

(x) 9A. AMENDMENT OF SOLICITATION NO. 140F0521R0003

x 9B. DATED *(SEE ITEM 11)* 05/12/2021

10A. MODIFICATION OF CONTRACT/ORDER NO.

10B. DATED *(SEE ITEM 13)*

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

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Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended , by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted ; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted , such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA *(If required)*

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	D. OTHER *(Specify type of modification and authority)*

E. IMPORTANT: Contractor ☐ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION *(Organized by UCF section headings, including solicitation/contract subject matter where feasible.)*

The purpose of this amendment is to provide responses to questions received. Please see the following attached documents:

1. Attachment 1 - Solicitation Terms and Conditions - AE MATOC (Amendment 0002)
2. Attachment 2 - Description of Work (Amendment 0002)
3. Attachment 3 - Geographical Location Selection Form (Amendment 0002)
4. Attachment 4 - Past Performance Questionnaire (Amendment 0002)
5. Request for Qualifications Letter (Amendment 0002)
6. Questions and Answers (Amendment 0002)

As a result of incorporating the following documents, the solicitation due date has been Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER *(Type or print)*		16A. NAME AND TITLE OF CONTRACTING OFFICER *(Type or print)*	
Monica Kent, PE - Joint Venture Chair		Ryan Boisvert	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)	7/7/21	*(Signature of Contracting Officer)*	

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE	OF PAGES
	1	1

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
0003	05/12/2021		

6. ISSUED BY CODE F05

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SUITE 310
Hadley MA 01035-9589

7. ADMINISTERED BY *(If other than Item 6)* CODE

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CODE FACILITY CODE

(x) 9A. AMENDMENT OF SOLICITATION NO. 140F0521R0003

x 9B. DATED *(SEE ITEM 11)* 05/12/2021

10A. MODIFICATION OF CONTRACT/ORDER NO.

10B. DATED *(SEE ITEM 13)*

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14. DESCRIPTION OF AMENDMENT/MODIFICATION *(Organized by UCF section headings, including solicitation/contract subject matter where feasible.)*

The purpose of this amendment is to incorporate two (2) Word documents that were unable to be opened from amendment 0002. The following documents have been added again:

1. Attachment 1 - Solicitation Terms and Conditions - AE MATOC (Amendment 0003)
2. Attachment 2 - Description of Work (Amendment 0003)

As a reminder to all potential offerors, there should be no rate information submitted as part of any phase 1 submission.

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER *(Type or print)*		16A. NAME AND TITLE OF CONTRACTING OFFICER *(Type or print)*	
Monica Kent - Joint Venture Chair		Ryan Boisvert	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
MK (Signature of person authorized to sign)	7/7/21	(Signature of Contracting Officer)	

NAME OF OFFEROR OR CONTRACTOR

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	extended from June 11, 2021 to June 30, 2021 5:00 PM ES. We will be providing answers to more questions in future amendments.				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE	OF PAGES
	1	1

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
0004	05/12/2021		

6. ISSUED BY CODE F05

FWS, DIVISION OF CONTRACTING AND GE
300 WESTGATE CENTER DRIVE
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CODE FACILITY CODE

(x) 9A. AMENDMENT OF SOLICITATION NO. 140F0521R0003

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10A. MODIFICATION OF CONTRACT/ORDER NO.

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D. OTHER *(Specify type of modification and authority)*

E. IMPORTANT: Contractor ☐ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION *(Organized by UCF section headings, including solicitation/contract subject matter where feasible.)*

The purpose of this amendment is to correct and replace: Attachment 2 - Description of Work (Amendment 0003) with Attachment 2 - Description of Work (Amendment 0004).

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER *(Type or print)*		16A. NAME AND TITLE OF CONTRACTING OFFICER *(Type or print)*	
Monica Kent, PE - Joint Venture Chair		Ryan Boisvert	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)	7/7/21	*(Signature of Contracting Officer)*	

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE	OF PAGES
	1	1

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
0005	05/12/2021		

6. ISSUED BY CODE F05

FWS, DIVISION OF CONTRACTING AND GE
300 WESTGATE CENTER DRIVE
SUITE 310
Hadley MA 01035-9589

7. ADMINISTERED BY *(If other than Item 6)* CODE

8. NAME AND ADDRESS OF CONTRACTOR *(No., street, county, State and ZIP Code)*

CODE FACILITY CODE

(x) 9A. AMENDMENT OF SOLICITATION NO. 140F0521R0003

x 9B. DATED *(SEE ITEM 11)* 05/12/2021

10A. MODIFICATION OF CONTRACT/ORDER NO.

10B. DATED *(SEE ITEM 13)*

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E. IMPORTANT: Contractor ☐ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION *(Organized by UCF section headings, including solicitation/contract subject matter where feasible.)*

The purpose of this amendment is to provide answers to additional questions received. The new questions begin at #80 of the questions and answers document. The following attachments are part of this amendment:

1. Questions and Answers (Amendment 00005)
2. Attachment 1 - Solicitation Terms and Conditions - AE MATOC (Amendment 00005)

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER *(Type or print)*		16A. NAME AND TITLE OF CONTRACTING OFFICER *(Type or print)*	
Monica Kent - Joint Venture Chair		Ryan Boisvert	
15B. CONTRACTOR/OFFEROR MK *(Signature of person authorized to sign)*	15C. DATE SIGNED 7/7/21	16B. UNITED STATES OF AMERICA *(Signature of Contracting Officer)*	16C. DATE SIGNED

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE	OF PAGES
	1	1

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
0006	05/12/2021		

6. ISSUED BY CODE F05

FWS, DIVISION OF CONTRACTING AND GE
300 WESTGATE CENTER DRIVE
SUITE 310
Hadley MA 01035-9589

7. ADMINISTERED BY *(If other than Item 6)* CODE

8. NAME AND ADDRESS OF CONTRACTOR *(No., street, county, State and ZIP Code)*

CODE FACILITY CODE

(x) 9A. AMENDMENT OF SOLICITATION NO. 140F0521R0003

x 9B. DATED *(SEE ITEM 11)* 05/12/2021

10A. MODIFICATION OF CONTRACT/ORDER NO.

10B. DATED *(SEE ITEM 13)*

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C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

D. OTHER *(Specify type of modification and authority)*

E. IMPORTANT: Contractor ☐ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION *(Organized by UCF section headings, including solicitation/contract subject matter where feasible.)*

The purpose of this amendment is to provide responses to newly received questions. As a result, questions #123-126 have been added. Please see the following documents:

1. Questions and Answers (Amendment 0006)
2. Attachment 1 - Solicitation Terms and Conditions - AE MATOC (Amendment 0006)

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER *(Type or print)*		16A. NAME AND TITLE OF CONTRACTING OFFICER *(Type or print)*	
Monica Kent - Joint Venture Chair		Ryan Boisvert	
15B. CONTRACTOR/OFFEROR *(Signature of person authorized to sign)*	15C. DATE SIGNED 7/7/21	16B. UNITED STATES OF AMERICA *(Signature of Contracting Officer)*	16C. DATE SIGNED

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE	OF PAGES
	1	1

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
0007	05/12/2021		

6. ISSUED BY CODE F05

FWS, DIVISION OF CONTRACTING AND GE
300 WESTGATE CENTER DRIVE
SUITE 310
Hadley MA 01035-9589

7. ADMINISTERED BY *(If other than Item 6)* CODE

8. NAME AND ADDRESS OF CONTRACTOR *(No., street, county, State and ZIP Code)*

CODE FACILITY CODE

(x) 9A. AMENDMENT OF SOLICITATION NO. 140F0521R0003

x 9B. DATED *(SEE ITEM 11)* 05/12/2021

10A. MODIFICATION OF CONTRACT/ORDER NO.

10B. DATED *(SEE ITEM 13)*

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

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E. IMPORTANT: Contractor ☐ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION *(Organized by UCF section headings, including solicitation/contract subject matter where feasible.)*

The purpose of this amendment is to provide responses to the most recent questions asked and to provide the most comprehensive and up to date version of the questions and answers document.

The Government has removed any questions and answers that have since been changed. The following documents will replace all previous versions:

1. Attachment 1 - Solicitation Terms and Conditions - AE MATOC (Amendment 0007)
2. Questions and Answers (Amendment 0007)

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER *(Type or print)*		16A. NAME AND TITLE OF CONTRACTING OFFICER *(Type or print)*	
Monica Kent, PE - Joint Venture Chair		Ryan Boisvert	
15B. CONTRACTOR/OFFEROR *(Signature of person authorized to sign)*	15C. DATE SIGNED 7/7/21	16B. UNITED STATES OF AMERICA *(Signature of Contracting Officer)*	16C. DATE SIGNED

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE	OF PAGES
	1	1

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
0008	06/23/2021		

6. ISSUED BY CODE F05

FWS, DIVISION OF CONTRACTING AND GE
300 WESTGATE CENTER DRIVE
SUITE 310
Hadley MA 01035-9589

7. ADMINISTERED BY *(If other than Item 6)* CODE

8. NAME AND ADDRESS OF CONTRACTOR *(No., street, county, State and ZIP Code)*

CODE FACILITY CODE

(x) 9A. AMENDMENT OF SOLICITATION NO. 140F0521R0003

x 9B. DATED *(SEE ITEM 11)* 05/12/2021

10A. MODIFICATION OF CONTRACT/ORDER NO.

10B. DATED *(SEE ITEM 13)*

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	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES *(such as changes in paying office, appropriation data, etc.)* SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER *(Specify type of modification and authority)*

E. IMPORTANT: Contractor ☐ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION *(Organized by UCF section headings, including solicitation/contract subject matter where feasible.)*

The purpose of this amendment is to provide responses to the most recent questions asked. We are also providing a copy of the first amendment given many are/were having difficulty accessing or locating the document.

The following documents are included in this amendment:

1. Questions and Answers (Amendment 0008)
2. Amendment 0001

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER *(Type or print)*		16A. NAME AND TITLE OF CONTRACTING OFFICER *(Type or print)*	
Monica Kent, PE - Joint Venture Chair		Ryan Boisvert	
15B. CONTRACTOR/OFFEROR *(Signature of person authorized to sign)*	15C. DATE SIGNED 7/7/21	16B. UNITED STATES OF AMERICA *(Signature of Contracting Officer)*	16C. DATE SIGNED

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE	OF PAGES
	1	1

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
0009	06/24/2021		

6. ISSUED BY CODE F05

FWS, DIVISION OF CONTRACTING AND GE
300 WESTGATE CENTER DRIVE
SUITE 310
Hadley MA 01035-9589

7. ADMINISTERED BY *(If other than Item 6)* CODE

8. NAME AND ADDRESS OF CONTRACTOR *(No., street, county, State and ZIP Code)*

CODE FACILITY CODE

(x) 9A. AMENDMENT OF SOLICITATION NO. 140F0521R0003

x 9B. DATED *(SEE ITEM 11)* 05/12/2021

10A. MODIFICATION OF CONTRACT/ORDER NO.

10B. DATED *(SEE ITEM 13)*

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☒ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☒ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended , by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted ; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted , such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA *(If required)*

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE

A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: *(Specify authority)* THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES *(such as changes in paying office, appropriation data, etc.)* SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

D. OTHER *(Specify type of modification and authority)*

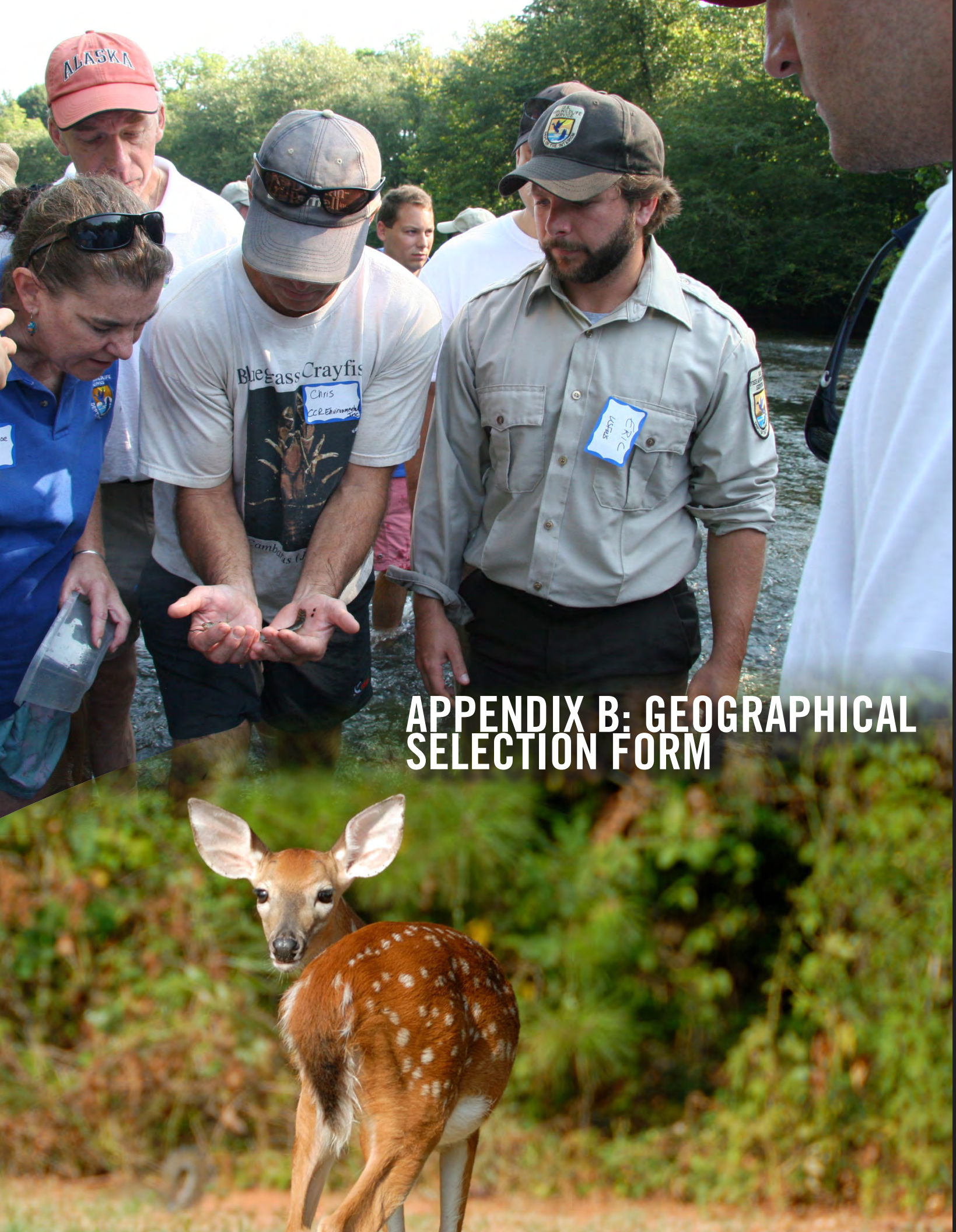
E. IMPORTANT: Contractor ☐ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION *(Organized by UCF section headings, including solicitation/contract subject matter where feasible.)*

The purpose of this amendment is to extend the due date. As a result, the new due date is July 9, 2021 5:00 PM Eastern.

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER *(Type or print)*		16A. NAME AND TITLE OF CONTRACTING OFFICER *(Type or print)*	
Monica Kent, PE - Joint Venture Chair		Ryan Boisvert	
15B. CONTRACTOR/OFFEROR *(Signature of person authorized to sign)*	15C. DATE SIGNED 7/7/21	16B. UNITED STATES OF AMERICA *(Signature of Contracting Officer)*	16C. DATE SIGNED



APPENDIX B: GEOGRAPHICAL SELECTION FORM

ATTACHMENT # 00003

A&E MATOC Location Selection Form

Please select up to ten (10) locations in which you are interested in working and provide with your Response

Firm Name: MSMM Huitt-Zollars A Joint Venture
DUNS: 117073814

Geographical Location	Yes	No
Alabama		
Alaska		
American Samoa		
Arizona	X	
Arkansas		
California	X	
Colorado	X	
Connecticut		
Delaware		
Florida	X	
Georgia		
Guam		
Hawaii		
Idaho		
Illinois		
Indiana		
Iowa		
Kansas		
Kentucky		
Louisiana	X	
Maine		
Maryland		
Massachusetts		
Michigan		
Minnesota		
Mississippi		
Missouri		
Montana		
Nebraska		
Nevada		
New Hampshire		
New Jersey		
New Mexico	X	
New York		
North Carolina		
North Dakota		
Northern Mariana Islands		
Ohio		
Oklahoma		
Oregon		

Geographical Location	Yes	No
Pacific/Remote Islands		
Pennsylvania		
Puerto Rico		
Rhode Island		
South Carolina		
South Dakota		
Tennessee		
Texas	X	
Utah		
Vermont		
Virginia	X	
Virgin Islands		
Washington	X	
Washington DC	X	
West Virginia		
Wisconsin		
Wyoming		

APPENDIX C: TEAMING ARRANGEMENTS - PARTNERSHIP OR JV PAPERWORK

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) i**s 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. **<u>MSMM Engineering, LLC's Assistance.</u> 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/Fedbizopps (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/Fedbizopps (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 preform 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 <u>required documentation.</u>

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.

Huitt-Zollars, Inc. (Mentor)	**MSMM Engineering, LLC (Protégé)**
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 **504-570-6098**
mkent@huitt-zollars.com **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 (**X**) have another SBA approved Mentor/Protégé Agreement.
    b. Protégé is ( ) is not (**X**) participating in any other formal Mentor-Protégé Programs governed by other agencies.
    c. Mentor does ( ) does not (**X**) have another SBA approved Mentor-Protégé Agreement.
    d. Mentor is ( ) is not (**X**) 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.

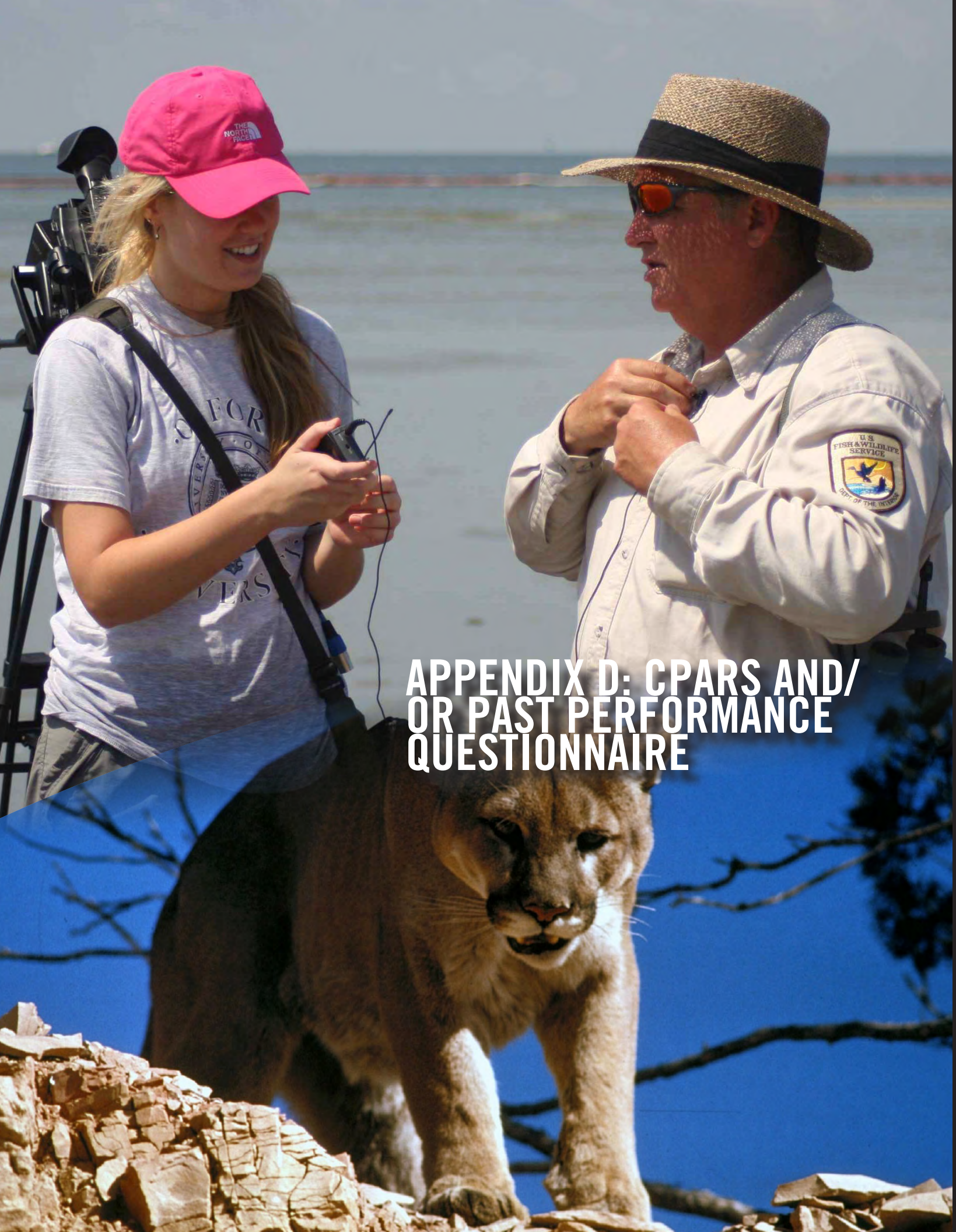
Subject to the approval of the U.S. Small Business Administration's Director, All Small Mentor-Protégé Program, this Agreement is entered into and effective as of the date of such approval. The Agreement is officially signed and executed by officials duly authorized to bind the named corporations this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

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
Notary Public
STATE OF TEXAS
Notary I.D. 13206645-9
My Comm. Exp. June 21, 2023

Amy Wynne



APPENDIX D: CPARS AND/ OR PAST PERFORMANCE QUESTIONNAIRE

Print Close

FOR OFFICIAL USE ONLY / SOURCE SELECTION INFORMATION - SEE FAR 2.101, 3.104, AND 42.1503

CONTRACTOR PERFORMANCE ASSESSMENT REPORT (CPAR)

Architect-Engineer

Name/Address of Contractor:

Vendor Name: MSMM ENGINEERING, LLC

Division Name:

Street: 4640 S CARROLLTON AVE SUITE 210-12

City: NEW ORLEANS

State: LA Zip: 701196051

Country: USA

CAGE Code:

Unique Entity ID (DUNS): 969989370 Unique Entity ID (SAM): NYLUL4Q5GYF6

Product/Service Code: C219 Principal NAICS Code: 541330

Evaluation Type: Final

Contract Percent Complete: 25

Period of Performance Being Assessed: 09/05/2018 - 12/10/2018

Contract Number: W9126G16D0017 W9126G18F0322 **Business Sector & Sub-Sector:** Architect-Engineer

Contracting Office: W076 ENDIST FT WORTH **Contracting Officer:** AMELIA KAI BRYANT **Phone Number:** 817-886-1045

Location of Work:

Architect and Engineer Services for 100% Design of Granger Lake Management Office Replacement, Granger Lake, TX FY19

Date Signed: 09/11/2018 **Period of Performance Start Date:** 09/05/2018

Est. Ultimate Completion Date/Last Date to Order: 12/10/2018 **Estimated/Actual Completion Date:** 12/10/2018

Funding Office ID:

Base and All Options Value : $358,037 **Action Obligation:** $358,037

Complexity: Medium **Termination Type:** None

Extent Competed: Full and Open Competition after Exclusion of Sources **Type of Contract:** Firm Fixed Price

Key Subcontractors and Effort Performed:

Unique Entity ID (DUNS): Unique Entity ID (SAM):

Effort:

Unique Entity ID (DUNS): Unique Entity ID (SAM):

Effort:

Unique Entity ID (DUNS): Unique Entity ID (SAM):

Effort:

Project Number:

Project Title:

Architect and Engineer Services for 100% Design of Granger Lake Management Office Replacement, Granger Lake, TX FY19

Contract Effort Description:

Architect and Engineer Services for 100% Design of Granger Lake Management Office Replacement, Granger Lake, TX FY19

Small Business Subcontracting:

Does this contract include a subcontracting plan? No

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Date of last Individual Subcontracting Report (ISR) / Summary Subcontracting Report (SSR): N/A

Evaluation Areas	Past Rating	Rating
Quality:	N/A	Satisfactory
Schedule:	N/A	Satisfactory
Cost Control:	N/A	Satisfactory
Management:	N/A	Very Good
Small Business Subcontracting:	N/A	N/A
Regulatory Compliance:	N/A	N/A
Other Areas:		
(1) :		N/A
(2) :		N/A
(3) :		N/A

Variance (Contract to Date):

Current Cost Variance (%): Variance at Completion (%):

Current Schedule Variance (%):

Assessing Official Comments:

QUALITY: Though initially exceeding square footage and CCL in attempting to comply with user requests, they did what corrections were necessary to pull the project back into task order square footage and CCL.

SCHEDULE: Though the initial submission was over square footage and over cost, the AE reworked to comply with the task order square footage and CCL. The AE has made all adjustment needed to keep within original final delivery schedule and provide corrections to meet the task order square footage and CCL.

COST CONTROL: Though initially exceeding square footage and CCL in attempting to comply with user requests, they did what corrections were necessary to pull the project back into task order square footage and CCL.

MANAGEMENT: Though initially exceeding square footage and CCL in attempting to comply with user requests, they did what corrections were necessary to pull the project back into task order square footage and CCL. The AE has not argued but done what was necessary to get back in line with the task order requirement and they maintained schedule while doing this.

ADDITIONAL/OTHER: Though initially exceeding square footage and CCL in attempting to comply with user requests, they did what corrections were necessary to pull the project back into task order square footage and CCL. The AE has not argued but done what was necessary to get back in line with the task order requirement and they maintained schedule while doing this.

RECOMMENDATION:

Given what I know today about the contractor's ability to perform in accordance with this contract or order's most significant requirements, I would recommend them for similar requirements in the future.

Name and Title of Assessing Official:

Name: JAMES WRIGHT

Title: Professional Engineer

Organization: CESWF-EC-AM

Phone Number: 817-886-1305 Email Address: james.wright@usace.army.mil

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Date: 03/21/2019

Contractor Comments:

QUALITY: Initial project design was based on recommendations and request from the Lake Management Office staff. We met with them and listened to their concepts and ideas, and formulated our initial design based on what they preferred. At the initial design phase we submitted a package that was larger than identified in the SOW, so USACE could see what the user wanted and make a funding decision. Once we were informed that the building would need to be reduced in size and cost, we took every action necessary to provide USACE with a building that could be implemented.

SCHEDULE: We have met every deliverable date provided in the contract and have kept the project on schedule, inclusive of changes to the facility following the initial design.

COST CONTROL: We expressed concerns to the Design Manager through the initial negotiations that the CCL wasn't enough to support the size of facility described in the SOW. Following the design charrette and meeting with the Lake Management staff, we designed the facility that they requested. Following input from the District Office that the cost would need to be reduced, the facility was re-scoped to meet the identified square footage and CCL.

MANAGEMENT: We have a good working relationship with the project team, and will continue to stay in constant communication as we wrap up design for this facility.

ADDITIONAL/OTHER: Though the size of the facility requested and the CCL limitation was always in question, the situation has been rectified through the decision to reduce the overall square footage of the facility. We have maintained the initial project schedule and have established a good working relationship with the PDT. We look forward to moving forward with Final Design Services.

CONCURRENCE: I concur with this evaluation.

Name and Title of Contractor Representative:

Name: JOSH CARSON

Title: Project Manager

Phone Number: 504-570-6098 Email Address: joshcarson@msmmeng.com

Date: 03/22/2019

Review by Reviewing Official:

Review by Reviewing Official not required.

Name and Title of Reviewing Official:

Name:

Title:

Organization:

Phone Number: Email Address:

Date:

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Past Performance Information/References
Attachment 4

GAOA MATOC for A&E

References
Must provide 3 references.

References must have thorough knowledge of the offeror's performance on the project for the majority of the contract performance period.

Past performance will be evaluated as a predictor of the offeror's compliance with contract requirements and overall quality of performance.

The offeror shall be responsible for disseminating and collecting the past performance questionnaires which shall be submitted with their electronic proposal.

Attached is the document the offeror is responsible for sending out to past project POC's. Information should be filled out by that contact and then collected by the offeror. These responses will then need to be compiled and submitted with the offeror's GAOA A&E MATOC proposal.

Past Performance Information/References
Attachment 4

Questionnaire Completed by:

Firm Name: Tetra Tech

Point of Contact: Katie Freer

Point of Contact Email and Phone #: Katie.Freer@la.gov (225) 342-4635

Contract Number: 2012: 2503-13-11; 2015: 4400007088; 2018: 4400015387

Location of Project (Town/State): Cameron , LA

Awarded Period of Performance: March 2013 thru December 2020

Awarded Project Amount: $4,800,000

Performance Elements	Exceptional	Very Good	Satisfactory	Unsatisfactory
Quality of Service	X			
Cost Control		X		
Timeliness of Performance		X		
Business Relations		X		

Remarks on outstanding performance:

Tetra Tech's support of 15% design for the CS-65 project was very strong. The deliverables served as a solid launching point for a very complex 30% design effort. They spanned a wide range of topics at an expert level. Later, they pulled from across the country and throughout the hemisphere to compile a well qualified group of expert reviewers that provided timely, constructive, well-informed comments on 30% design deliverables.

Remarks on unsatisfactory performance:

N/A

Would you do business with this company again? Yes.

Past Performance Information/References
Attachment 4

Questionnaire Completed by:

Firm Name: Coastal Protection & Restoration Authority (CPRA) - Louisiana

Point of Contact: Dustin White, Project Manager

Point of Contact Email and Phone #: dustin.white@la.gov & 225-342-4512

Contract Number: 4400018089

Location of Project (Town/State): Bayou Segnette State Park, Westwego, Louisiana

Awarded Period of Performance: January 2020 - July 2021

Awarded Project Amount: $295,659.00

Performance Elements	Exceptional	Very Good	Satisfactory	Unsatisfactory
Quality of Service		X		
Cost Control		X		
Timeliness of Performance		X		
Business Relations		X		

Remarks on outstanding performance:

Delivered on multiple projects, timely & professional.

Remarks on unsatisfactory performance:

None

Would you do business with this company again?

Yes

Past Performance Information/References

Attachment 4

Questionnaire Completed by:

Firm Name: City of Sugar Land, Texas

Point of Contact: Joseph Chesser, ASLA, Director, Parks and Recreation Department

Point of Contact Email and Phone #: jchesser@sugarlandtx.gov; 281-275-2885

Contract Number: Memorial Park at the Brazos River

Location of Project (Town/State): Sugar Land, Texas

Awarded Period of Performance: 4/4/2015 – 7/1/2016

Awarded Project Amount: $389,000

Performance Elements	Exceptional	Very Good	Satisfactory	Unsatisfactory
Quality of Service	X			
Cost Control		X		
Timeliness of Performance		X		
Business Relations	X			

Remarks on outstanding performance:

Huitt-Zollars has always been very responsive and stands behind their work.

Remarks on unsatisfactory performance:

None

Would you do business with this company again?

Yes, I would do business with them again.

Past Performance Information/References
Attachment 4

Questionnaire Completed by:

Firm Name: Texas Parks and Wildlife Department

Point of Contact: Douglas F. Sauvé

Point of Contact Email and Phone #: doug.sauve@tpwd.texas.gov 512.389.8675

Contract Number: Contract No.: 510338, Project No.: 1210094, Task Order 4; Goose Island State Park, Hurricane Repairs

Location of Project (Town/State): Rockport, TX

Awarded Period of Performance: 6/1/2018 – 7/1/2020

Awarded Project Amount: $236,438.00

Performance Elements	Exceptional	Very Good	Satisfactory	Unsatisfactory
Quality of Service			✓	
Cost Control			✓	
Timeliness of Performance		✓		
Business Relations		✓		

Remarks on outstanding performance:

N.A.

Remarks on unsatisfactory performance:

N.A.

Would you do business with this company again? Yes, and we are currently working with this company on an unrelated project.

Print Close

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CONTRACTOR PERFORMANCE ASSESSMENT REPORT (CPAR)

Architect-Engineer

Name/Address of Contractor:

Vendor Name: MSMM ENGINEERING, LLC

Division Name:

Street: 4640 S CARROLLTON AVE SUITE 210-12

City: NEW ORLEANS

State: LA Zip: 701196051

Country: USA

CAGE Code:

Unique Entity ID (DUNS): 969989370 Unique Entity ID (SAM): NYLUL4Q5GYF6

Product/Service Code: C219 Principal NAICS Code: 541330

Evaluation Type: Final

Contract Percent Complete: 95

Period of Performance Being Assessed: 06/17/2020 - 07/15/2020

Contract Number: W9126G16D0017 W9126G18F0286 **Business Sector & Sub-Sector:** Architect-Engineer

Contracting Office: US ARMY ENGINEER DISTRICT FT WORTH **Contracting Officer:** AMELIA K. BRYANT **Phone Number:** 817-886-1045

Location of Work:

Dallas Floodway Extension (DFE) - Phase II Recreation and Access Design Trinity River, Dallas, TX

Date Signed: 08/14/2018 **Period of Performance Start Date:** 08/15/2018

Est. Ultimate Completion Date/Last Date to Order: 07/15/2020 **Estimated/Actual Completion Date:** 07/15/2020

Funding Office ID:

Base and All Options Value : $422,440 **Action Obligation:** $422,440

Complexity: Medium **Termination Type:** None

Extent Competed: Full and Open Competition after Exclusion of Sources **Type of Contract:** Firm Fixed Price

Key Subcontractors and Effort Performed:

Unique Entity ID (DUNS): Unique Entity ID (SAM):

Effort:

Unique Entity ID (DUNS): Unique Entity ID (SAM):

Effort:

Unique Entity ID (DUNS): Unique Entity ID (SAM):

Effort:

Project Number:

Project Title:

Dallas Floodway Extension (DFE) - Phase II Recreation and Access Design Trinity River, Dallas, TX

Contract Effort Description:

Dallas Floodway Extension (DFE) - Phase II Recreation and Access Design Trinity River, Dallas, TX

Small Business Subcontracting:

Does this contract include a subcontracting plan? No

Date of last Individual Subcontracting Report (ISR) / Summary Subcontracting Report (SSR): N/A

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Evaluation Areas	Past Rating	Rating
Quality:	Very Good	Very Good
Schedule:	Very Good	Very Good
Cost Control:	Very Good	Very Good
Management:	Very Good	Very Good
Small Business Subcontracting:	N/A	N/A
Regulatory Compliance:	N/A	N/A
Other Areas:		
(1) :		N/A
(2) :		N/A
(3) :		N/A

Variance (Contract to Date):

Current Cost Variance (%): Variance at Completion (%):

Current Schedule Variance (%):

Assessing Official Comments:

QUALITY: The contractor researched and found viable solutions to the users requirements resulting in meeting requirements at substantially less cost than anticipated.

SCHEDULE: The contractor required site visits to kick off the design efforts and was delayed substantially by flooding in establishing existing conditions. The contractor established a good pace to keep within schedule in spite of this and delivered more than reasonably timely submittals.

COST CONTROL: The contractor researched and found viable solutions to the users requirements resulting in meeting requirements at substantially less cost than anticipated.

MANAGEMENT: The contractor was initially delayed but carried on to find solutions to the users needs at less than the anticipated estimated amounts of the initial scope.

ADDITIONAL/OTHER: The contractor was initially delayed by flooding preventing necessary site visits, but established a pace to provide submittals in a timely manner. The contractor also researched and found solutions other than the originally requested scope that met the users needs a substantial estimated savings.

Design is complete, the current POP by modification is in July 2020. The design work was complete. The scope was expected to address answering bidder inquiries, providing the award document, and answering RFI's for up to two years. The sponsor was not forthcoming with their share of cost sharing and it was unknown when this would occur so it was determined the task order should be closed out with the unpaid balance for work not done as a result to be de-obligated from the task order. The A-E provided Very Good performance.

RECOMMENDATION:

Given what I know today about the contractor's ability to perform in accordance with this contract or order's most significant requirements, I would recommend them for similar requirements in the future.

Name and Title of Assessing Official:

Name: JAMES WRIGHT

Title: Professional Engineer

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Organization: CESWF-EC-AM

Phone Number: 817-886-1305 Email Address: james.wright@usace.army.mil

Date: 10/21/2020

Contractor Comments:

ADDITIONAL/OTHER: We agree with this rating and it was a pleasure doing business with USACE on this task order. Though we would have like to have seen the job bid and constructed, we understand the challenges ongoing with USACE and the City of Dallas and look forward to the opportunity to provide Construction Phase Services in the future.

CONCURRENCE: I concur with this evaluation.

Name and Title of Contractor Representative:

Name: Joshua Carson

Title: Project Manager

Phone Number: 5045706098 Email Address: joshcarson@msmmeng.com

Date: 10/21/2020

Review by Reviewing Official:

Review by Reviewing Official not required.

Name and Title of Reviewing Official:

Name:

Title:

Organization:

Phone Number: Email Address:

Date:

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MHZ JV

A SMALL BUSINESS MENTOR PROTÉGÉ JOINT VENTURE

440 CARROLLTON AVENUE SUITE 220 NEW ORLEANS, LA 70119 (504) 559-1897