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