

**Statement of Qualifications
SOQ No. 23-001**



Jefferson Parish Government

Resolution No. 140999

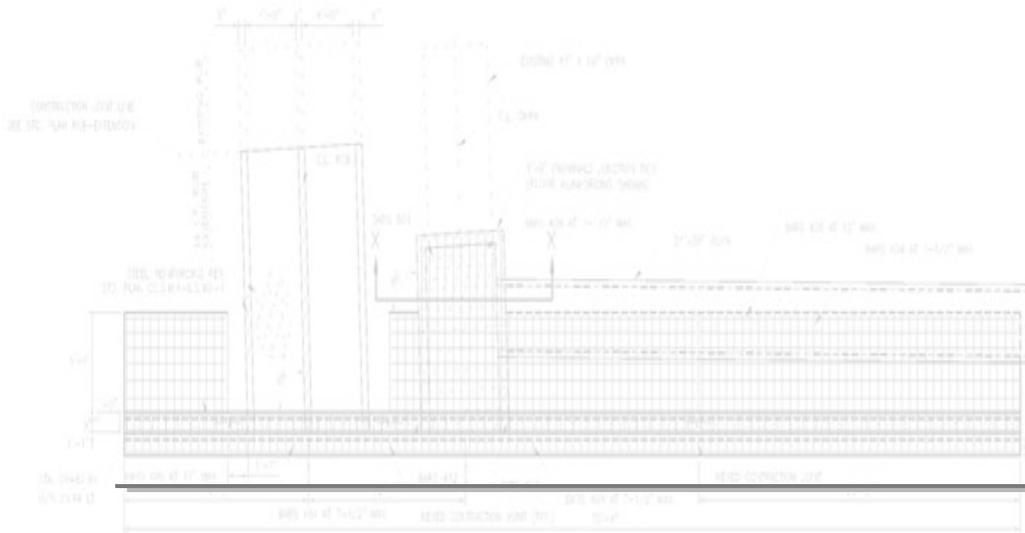
Professional Architectural and Engineering Services
As-needed basis for Architectural type projects located
throughout the Parish for an approximate two-year period.



PRINCIPAL *Infrastructure*[®]



Architecture ♦ Engineering ♦ Construction



- NOTES**
1. THE STAIRS AND CORSET WALLS SHALL BE EXTENDED ACCORDING TO SEE PLAN SECTION A-A. ALL REINFORCING SHALL BE WELDED TO THE MAIN REINFORCING AND THE UNDER FOOT SHALL CONSTITUTE CAL. FOUND. FOR 30,000 PSI CON.
 2. THE STAIRS AND CORSET WALLS SHALL BE EXTENDED TO 1'-0" IN LENGTH. UNDER STAIRS AND CORSET WALLS SHALL BE 1'-0" WELDED.
 3. THE STAIRS AND CORSET WALLS SHALL BE EXTENDED TO 1'-0" IN LENGTH. UNDER STAIRS AND CORSET WALLS SHALL BE 1'-0" WELDED.
 4. THE ENTIRE HEADINGS ARE TO BE REINFORCED.
 5. 1 NEW UNREINFORCED 4" IS REQUIRED AS SHOWN ON SEE PLAN SECTION A-A.
 6. ALL REINFORCING SHALL BE WELDED TO THE MAIN REINFORCING AND THE UNDER FOOT SHALL CONSTITUTE CAL. FOUND. FOR 30,000 PSI CON.
 7. THE HEADINGS SHALL BE REINFORCED FOR FLOW BY THE CURB AND BY THE REINFORCING INSTALLED AND ACCEPTED. BARS 3 AND 4 SHALL BE REINFORCED FOR FLOW.
 8. A MIN. 1/2" RIBS OF REINFORCING MATERIAL IS REQUIRED AS SHOWN ON SEE PLAN SECTION A-A.
 9. REINFORCING SHALL BE OF LOW CARBON MATERIAL (50,000 PSI).

"To Exceed Client Expectations; That's our Mission."

Henry I. DiFranco, Jr., P.E., M.B.A.
 President

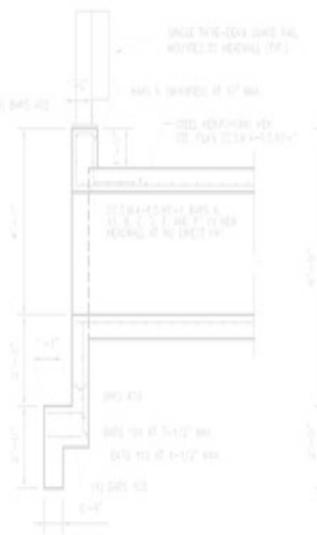


ITEM	DESCRIPTION	QUANTITY	UNIT
1	CONCRETE	10.0	CU YD
2	STEEL REINFORCING	100.0	LB
3	FORMWORK	100.0	SQ YD
4	BRICK	100.0	1000'S
5	MORTAR	100.0	CU YD
6	PAINT	100.0	SQ YD
7	GLASS	100.0	SQ FT
8	DOOR	1	EA
9	WINDOW	1	EA
10	CEILING	100.0	SQ YD
11	FLOORING	100.0	SQ YD
12	MECHANICAL	100.0	SQ YD
13	ELECTRICAL	100.0	SQ YD
14	PLUMBING	100.0	SQ YD
15	LANDSCAPE	100.0	SQ YD
16	CONCRETE	100.0	CU YD
17	STEEL REINFORCING	100.0	LB
18	FORMWORK	100.0	SQ YD
19	BRICK	100.0	1000'S
20	MORTAR	100.0	CU YD
21	PAINT	100.0	SQ YD
22	GLASS	100.0	SQ FT
23	DOOR	1	EA
24	WINDOW	1	EA
25	CEILING	100.0	SQ YD
26	FLOORING	100.0	SQ YD
27	MECHANICAL	100.0	SQ YD
28	ELECTRICAL	100.0	SQ YD
29	PLUMBING	100.0	SQ YD
30	LANDSCAPE	100.0	SQ YD

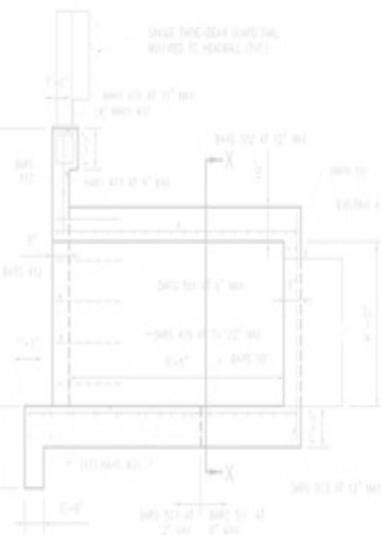
ELEVATION
 SCALE: 1/2" = 1'-0"



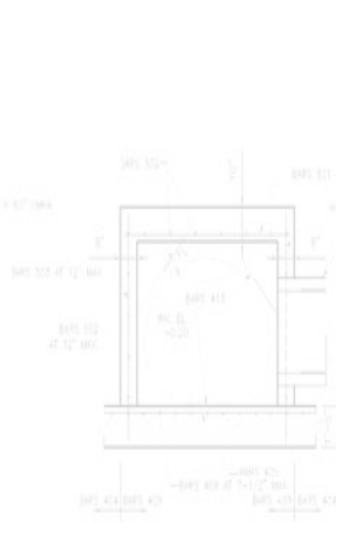
SECTION C-C
 SCALE: 1/2" = 1'-0"



SECTION B-B
 SCALE: 1/2" = 1'-0"



SECTION A-A
 SCALE: 1/2" = 1'-0"



SECTION X-X
 SCALE: 1/2" = 1'-0"



Architecture

Engineering

Construction

January 19, 2023

Jefferson Parish Government
Procurement Department
200 Derbigny St., Suite 4400
Gretna, LA 70053

RE: SOQ No. 23-001 - Professional Architectural and Engineering Services on an as-needed basis for architectural type projects located throughout the Parish for an approximate two-year period.

Resolution No. 140999

Dear Sir or Madam,

Principal Infrastructure – A/E/C, LLC is pleased to submit our Statement of Qualifications to Jefferson Parish Government in consideration for a contract to perform Architectural & Engineering Services.

Principal Infrastructure – A/E/C, LLC is a Joint Venture between Principal Engineering, Inc. (**LAPELS No. 3168 & Architect Board Firm No. AE0232**) and Hardy & Associates/Architect, PLLC (**Architect Board Firm License No. AF0581**). Principal Engineering and Hardy & Associates have a ten-year relationship working together as a team on various federal and local A/E design and construction management projects.

We are a federal verified *Service-Disabled Veteran Owned Small Business (SDVOSB)* with an exceptionally qualified team of professionals capable of providing consulting A/E services.

We look forward to the opportunity to serve Jefferson Parish Government by providing quality A/E design & consulting services for facility improvement projects under the Parish's jurisdiction. If you have any questions or require additional information, please contact me at the number above.

Sincerely,

PRINCIPAL Infrastructure

Henry I. DiFranco, Jr. PE
President



TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

SOQ NO 23-001 - Professional Architectural and Engineering Services on an As-Needed Basis
Resolution No. 140999

B. Firm Name & Address:



Principal Infrastructure - A/E/C, LLC (Joint-Venture)
Principal Engineering, Inc. (LAPELS #3168/LSBAE #AE0232)
Hardy & Associates/Architect, PLLC (LSBAE #AF0581)
1011 N. Causeway Blvd., Suite 19
Mandeville, LA 70471

C. Name, title and contact information of Principal, as defined in Section 2-926 of the Jefferson Parish Code of Ordinances, who is a registered, licensed architect, professional engineer, or surveyor in the State of Louisiana:

Henry I. DiFranco, Jr., PE
President
1011 N. Causeway Blvd., Suite 19
Mandeville, LA 70471
(985) 624-5001 | henry@pi-aec.com

D. Name and contact information of employee who is a registered and licensed architect, professional engineer, or surveyor in the State of Louisiana in the applicable discipline. A subcontractor may be substituted here only if the advertised Project requires more than one discipline.

Marion "Marty" Hardy, AIA
LA Licensed Architect #7077
15260 Big John Road, Suite A
Biloxi, MS 39532
(228) 215-1851 | marty@hardyarchitect.com

E. Please provide the number of employees whose primary function corresponds with each category:

<u>4</u> Administrative	<u> </u> Estimators	<u> </u> Specification Writers
<u>2</u> Architects (Licensed)	<u> </u> Geologists	<u>1</u> Structural Engineers
<u> </u> Chemical Engineers	<u> </u> Geotechnical Engineers	<u>3</u> Graduate Engineers
<u>5</u> Civil Engineers	<u>1</u> Interior Designers	<u>3</u> Project Managers
<u>4</u> Construction Inspectors	<u> </u> Landscape Architects	<u>3</u> Clerical
<u> </u> Ecologists	<u> </u> Land Surveyor	<u> </u> Grant/Funding Specialist
<u>1</u> Electrical Engineers	<u> </u> Mechanical Engineers	<u> </u> Sanitary Engineers
<u>2</u> Engineer Intern	<u> </u> Environmental Engineers	
<u> </u> Professional Land Surveyors	<u>6</u> Other (Planners, Tech Support)	<u>35</u> TOTAL

F. Is this submittal by a JOINT-VENTURE? Please check: YES NO

If marked "No" skip to Section I. If marked "yes" complete Sections G-H.



TEC Professional Services Questionnaire

G. If submittal is by JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary.

1. Principal Engineering, Inc. – Lead/Majority Firm of the JV - A/E Design, A/E CAD, Administrative, Financial, Technical and Construction Administration

2. Hardy & Associates/Architect, PLLC – Architectural and Interior Design, Architectural CAD

H. Has this JOINT-VENTURE previously worked together? Please check:
 YES NO

I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary.

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
N/A		

J. Please specify the total number of support personnel that may assist in the completion of this Project:

25

TEC Professional Services Questionnaire

K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e. resume) that demonstrates the employment history and experience of the Firm's key persons that may assist in the completion of this Project. Please attach additional pages if necessary.

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Marion "Marty" A. Hardy, Architect

Project Assignment:

Principal Architect - Professional In Charge/Project Manager – Meets the Minimum Requirement #2-, "A professional in charge of the Project who is a licensed, registered architect in the State of Louisiana with a minimum of five (5) years' experience in the disciplines involved

Name of Firm with which associated:



Years' experience with this Firm:

15

Education: Degree(s)/Year/Specialization:

Architecture, Bachelor of Science, 1995

Active registration: Year first registered/discipline:

8/2006 LA, Architect#7077 - MS, Architect #4060 - AL, Architect #6568 - TX, Architect #26345

Other experience and qualifications relevant to the proposed Project:

Member of: American Institute of Architects (AIA) - Member National Council of Architectural Registration Boards (NCARB) - Member of Mississippi Hospital Engineers Association

GRH Radiology Relocation / Consolidation George Regional Hospital - Lucedale, MS

Relocation of X-ray, fluoro, nuclear med, MRI, CT and mammography to a central location between the ER and patient wings and support spaces. Provided full A/E services 5,787 sf COST: \$2.2M (no equip)

OSH Interventional Radiology / Angio Renovation Ocean Springs Hospital – Ocean Springs, MS

New Interventional Radiology Room, Equipment Room, Control Room, Slobin area, entry vestibule, storage and UPS room. Provided Full A/E services. 1,250 sf COST: 675,000 (no equipment or UPS)

TEC Professional Services Questionnaire

Marty Hardy continued....

YGH 2nd Floor Addition for Gero-psych Unit Yalobusha General Hospital – Water Valley, MS

Addition of a 2nd floor on an existing one-story building. Existing structure was enhanced with carbon fiber wraps and surfaces to allow for the second floor to be added to house a new geropsych unit, elevators, stairs and support spaces. Provided Full A/E services 7,565 sf COST: \$5,850,000

SRH Central Sterile Renovation Singing River Hospital, Pascagoula, MS

Complete renovation of existing central sterile to reorganize the flow and ergonomics of the space, including decontamination, washers, sterile process, Autolaves, sterile storage, offices, general storage and restrooms. 5,975 sf COST: \$2,450,000

OSH MRI Renovation Ocean Springs Hospital - Ocean Springs, MS

Replace existing MRI equipment, equipment room, shielding, control room and dressing room. Upgrade to meet ADA. Provided full A/E 1,050 sf COST: \$425,000



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Henry I. DiFranco Jr., P.E.
President

Project Assignment:

Contract and Project Manager
Principal Engineer

Name of Firm with which associated:**Years' experience with this Firm:**

18

Education: Degree(s)/Year/Specialization:

Bachelor of Science in Civil Engineering (BSCE), 1991
Master of Business Administration (MBA), 1998

Active registration: Year first registered/discipline:

Active Registration: 1997 **Branch: Civil** **License No.: 27448**

Other experience and qualifications relevant to the proposed Project:

Mr. DiFranco has extensive experience in Public Works engineering and management serving as the Director of Public Works & Utilities for St. John Parish and holding numerous positions as a public works engineer and consulting engineer over his 31+ year career. Mr. DiFranco is graduate of Air War College, Air Command & Staff College, and Squadron Officer School.

A former Lt. Colonel in the Air Force Reserves, Mr. DiFranco deployed to Baghdad, Iraq in support of **OPERATION IRAQI FREEDOM**. As a civil engineering officer, he was responsible for approximately \$15 million dollars of infrastructure improvements in and around the Baghdad area. He is currently assigned to the Air Force Civil Engineering Center where he supports Air Force Civil Engineering worldwide.

TEC Professional Services Questionnaire

Henry DiFranco continued...

Civilian Experience:

LA DOTD - Civil Engineer Intern - 1991 to 1994
Consulting Civil Engineer - 1994 to 1997
Public Works Engineer - 1997 to 2000
Public Works & Utilities Director - 2000 to 2004
Vice-President of Consulting Firm - 2005 to 2008
President of Principal Engineering, Inc. - 2004 to Present

Military Experience:

LA ARNG- Heavy Equip. Operator – Sgt - 1986 to 1990
LA ARNG- Civil Engineer - 1st LT - 1990 to 1994
LA Air National Guard - Civil Engineer - Capt - 1999 to 2005
Veteran of Operation of Noble Eagle - 2001 to 2002
Veteran of Operation Iraqi Freedom - 2003 to 2004
Air Force Civil Engineer Center - Major - 2005 to 2014
Air Force Reserve Civil Engineer - Lt. Col- 2014-2022

As president of Principal Engineering, Inc., Mr. DiFranco is responsible for all daily operations, ensuring the highest quality product is delivered on time and within the established budget. As the Principal-in-Charge, Mr. DiFranco provided planning, design guidance and quality assurance/final design review for the following relevant projects:

Renovate Pathology, 2E/2N, OBVAMC Shreveport, LA, Project No. 667-16-103 – Contract No. VA256-16-C-0127

Owner: Department of Veterans Affairs

Mr. DiFranco performed contract management and QA/QC for this project to renovate the existing Inpatient Wards on 6-West, 7-West and 8-West (approximately 31,000 GSF). Cost \$4M.

East Bank Sign Shop ADA Compliance Renovation

Owner: Jefferson Parish Government, La.

Mr. DiFranco, Jr. was in charge of the design of the reconstruction of male and female restrooms for ADA compliance.

Cleary & Bright Playground Gym Renovation

Owner: Jefferson Parish Parks & Recreation, La.

Mr. DiFranco, Jr. was in charge of the design of renovating the interior of both gyms, replacing the roof at Bright and performing other misc. repairs and improvements.

Girard Park Playground & Pressbox Renovation

Owner: Jefferson Parish Parks & Recreation, La.

Mr. DiFranco, Jr. was in charge of the design of renovating the concession area, pressbox area, provision of sidewalk access to the baseball dugouts, modification of the site for ADA compliance, fencing replacement, a water fountain replacement, and supporting accessory items of work.

Live Oak New Kindergarten Classroom Building & Covered Gym/Play Area

Owner: Jefferson Parish Public School System, La.

Mr. DiFranco, Jr. was in charge of the design of a new 5,000 square foot, two classroom kindergarten building and a new 4,500 square foot covered play area/gymnasium.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Andre C. Monnot, P.E.
Vice President

Project Assignment:

Project Manager

Name of Firm with which associated:**Years' experience with this Firm:**

13

Education: Degree(s)/Year/Specialization:

Bachelor of Science in Civil Engineering (BSCE), 2002

Active registration: Year first registered/discipline:

Active Registration: 2007

Branch: Civil

License No.: 33626

Other experience and qualifications relevant to the proposed Project:

Mr. Monnot has a diverse range of engineering and management experience in both the public sector as a military engineer and as a private consultant. He was deployed in support of Operation Iraqi Freedom, during which time he was the Chief Maintenance Engineer for the installation. He led construction on several emergency power projects, completed a comprehensive mapping and inventory of the base's roadway and drainage systems, and managed \$5 million in service contracts for garbage collection, custodial services, and potable water delivery. Since 2000, in the military and as a consultant, Mr. Monnot has designed an array of projects encompassing water, wastewater, roadway, drainage, structural, and airfield paving. This included preparation of engineering calculations, drawings, technical specifications, and contract documents; and managing personnel and costs related to the projects.

Andre Monnot will interface with Jefferson Parish on the overall direction and major project decisions; advise JP of key planning, design, or construction decisions that may have cost, schedule, health, safety, or operational implications; oversee project progress and provide direction and support to the project team; and be responsible for the day-to-day correspondence, schedule, budget development, progress assessment, risk management, quality management, and reporting.

TEC Professional Services Questionnaire

Andre Monnot continued...

Mr. Monnot has been the Project Manager for the following relevant projects:

East Bank Sign Shop ADA Compliance Renovation

Owner: Jefferson Parish Government, LA

Mr. Monnot was the project manager for the design of the reconstruction of male and female restrooms for ADA compliance.

Cleary & Bright Playground Gym Renovation

Owner: Jefferson Parish Parks & Recreation, LA

Mr. Monnot. Is the project manager for the design of renovating the interior of both gyms, replacing the roof at Bright and performing other misc. repairs and improvements.

Girard Park Playground & Press-Box Renovation

Owner: Jefferson Parish Parks & Recreation, LA

Mr. Monnot is the project manager for the design of renovating the concession area, pressbox area, provision of sidewalk access to the baseball dugouts, modification of the site for ADA compliance, fencing replacement, a water fountain replacement, and supporting accessory items of work.

CWU Access and Enhancement Project (Welcome Center and Boat Rental Shop)

Owner: St. Bernard Parish, LA

Mr. Monnot is the project manager of the plan and execution of architectural and engineering services for Phase I which consists of access road, boat house, welcome center, various wooden piers and lookout decks.

Cath Lab Expansion, 6E, OBVAMC, Shreveport, LA, Project No. 667-15-104 – Cont. No. VA256-16-C-0130

Owner: Department of Veterans Affairs

Mr. Monnot provided structural engineering design to renovate and expand the existing Cath Lab services, located on the sixth floor, east wing (6E), within the main hospital, building 1, Overton Brooks Medical Center, Shreveport, LA. The area is 8,230 square feet. Estimated Cost: \$3.1M

Emergency Room Renovations and Structural Foundation Replacement, GCVHCS, Biloxi, MS, Project No. 520-16-102 – Contract No. 36C25618R0759

Owner: Department of Veterans Affairs

Mr. Monnot was the PM on this effort to perform an investigation/evaluation of the ER slab foundation settlement issue and developing alternative options to fix and prevent future settlement. Principal prepared a report of findings with alternative options and cost estimates and will do a presentation to the VA staff with the recommendation. The project also includes the complete renovation of the Hospital Emergency Room. Estimated Cost: \$4.0M

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Rick House, Project Manager

Project Assignment:

Professional Architectural and Engineering Services on an as-needed basis for architectural type projects located throughout the Parish for an approximate two-year period.

Name of Firm with which associated:**Years' experience with this Firm:**

13 Years

Education: Degree(s)/Year/Specialization:

Bachelor of Architecture, Drury University, 1997

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

OBVAMC – Renovate Pathology 2E – 2N – Department of Veterans Affairs, Shreveport, LA

OBVAMC - Cath Lab Expansion 6E – Department of Veterans Affairs, Shreveport, LA

D'Iberville City Hall Moisture Remediation – Study to determine source of moisture and leaks. Replaced all windows and stucco. 22,546 sf

Yalobusha General Hospital – Gero Psych Addition/Renovation - Water Valley, MS

Full Architectural services for the renovation of the YGH GeroPsych addition/reno. 16,200 sf project
Budgeted at \$6,200,000.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Michael Melendez
Senior CAD Technician

Project Assignment:

CAD Manager

Name of Firm with which associated:**Years' experience with this Firm:**

16

Education: Degree(s)/Year/Specialization:

Associates Degree of Occupational Science in Computer Aided Drafting, 1999

Active registration: Year first registered/discipline:

Active Registration: N/A

Other experience and qualifications relevant to the proposed Project:

Mr. Melendez has an Associate's Degree of Occupational Science in Computer Aided Drafting. His professional qualities include the ability to analyze a problem and present an accurate resolution. He is also detail oriented, and focuses on quality and accuracy. Mr. Melendez is Proficient with AutoCAD, Civil 3D, GIS and many design software programs. Since joining Principal Engineering, Mr. Melendez has performed design duties for many street, drainage, water and sewerage projects for numerous local municipalities. Mr. Melendez is a senior technician capable of performing significant plan preparation for municipal public works projects and private infrastructure projects.

East Bank Sign Shop ADA Compliance Renovation

Owner: Jefferson Parish Government, La.

Mr. Melendez performed drafting for the design of the reconstruction of male and female restrooms for ADA compliance

TEC Professional Services Questionnaire

Michael Melendez continued...

Cleary & Bright Playground Gym Renovation

Owner: Jefferson Parish Parks & Recreation, La.

Mr. Melendez is performing drafting for the design of renovating the interior of both gyms, replacing the roof at Bright and performing other misc. repairs and improvements.

Girard Park Playground & Pressbox Renovation

Owner: Jefferson Parish Parks & Recreation, La.

Mr. Melendez is performing drafting for the design of renovating the concession area, pressbox area, provision of sidewalk access to the baseball dugouts, modification of the site for ADA compliance, fencing replacement, a water fountain replacement, and supporting accessory items of work.

Hurricane Isaac Recovery-Sunset Point and Fishing Pier Rehabilitation

Owner: City of Mandeville, La.

Mr. Melendez performed drafting services for the rehabilitation of an existing pier.

Various Renovation Projects throughout Jefferson Parish Public School System

Owner: Jefferson Parish Public School System, La.

Mr. Melendez performed drafting services for the various renovations which included interior and exterior renovations, demolition for expansion and architectural upgrades.

Live Oak New Kindergarten Classroom Building & Covered Gym/Play Area

Owner: Jefferson Parish Public School System, La.

Mr. Melendez performed AutoCAD design for the 5,000 sq. ft. building as well as the 4,500 sq. ft. play area/gymnasium.

LANG Jourdan House Relocation and Renovation

Owner: City of Mandeville, La.

Mr. Melendez performed drafting services for the complete restoration of this project.

TEC Professional Services Questionnaire

L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this Project. Please include any and all work performed for Jefferson Parish. Attach additional pages if necessary.

PROJECT NO. 1

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>A/E Services for Hurricane IDA Damage to St. Charles Parish Westbank Waterworks Facilities Project No. WWKS 107 & 108</p> <p>St. Charles Parish Government Department of Waterworks 301 3rd Street Luling, LA 70070 Greg Gorden, Director (985) 783-5110</p>	<p>Project Performed by the JV Team of Principal Engineering as Prime and Hardy as Sub. The project included the A/E Design for the rehabilitation of numerous facilities damaged by Hurricane Ida and the design of a new metal building on the existing site. A/E work included the assessment of damage and the architectural design, structural, civil/site, electrical and mechanical engineering including modifications to bring aged existing facilities into ADA compliance. The existing utility billing and management office sustained significant damage and required complete rehabilitation including, but not limited to, new roof, decking, soffit, canopies, exterior doors, gypsum board ceiling/walls, insulation, HVAC (including ducts), millwork, base, painting, flooring, ADA restrooms and new electrical wiring.</p>	
Completion Date (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
<p>Design Complete – 2022 Construction – 20% Complete – 2023 Est</p>	<p>\$1,500,000</p>	<p>100%</p>

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Renovate Pathology, 2E/2N, OBVAMC Shreveport, LA Project No. 667-16-103 – Contract No. VA256-16-C-0127</p> <p>Department of Veterans Affairs 510 E. Stoner Ave. Shreveport, LA 71101 Stacy Walden, P.E., Engineer, COR (318)-990-5297</p>	<p>Project Performed by the JV Team of Principal Engineering as Prime and Hardy as Sub. Completed the construction documents/design for the project to renovate the Pathology lab that is located on the second floor north and east wings, within the main hospital, building 1, Overton Brooks Medical Center, Shreveport, LA. The design documents captured a plan that renovated Pathology to improve efficiency in processing, handling, and transportation of specimens. The plans included, but were not limited to, total renovation in rooms 2N4, 2N5, 2N6, 2N7, 2E23, 2E24 and as necessary where 2N6 connects to 2N8. Other considerations included rooms that needed various changes due to the re-organization and process flow changes including, but not limited to, mechanical, electrical, plumbing, data, alarms, sprinklers, architectural, etc. Principal considered the proper construction phasing of work with time limitations in order for the full Pathology Operation to continue during construction and keep continuous operation throughout the entire renovation.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
<p>2020</p>	<p>\$2,500,000</p>	<p>100%</p>

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Renovate Inpatient Wards for Privatization 6W, 7W & 8W, OBVAMC, Project No. 667-18-105 – Contract No. 36C25618C0091</p> <p>Department of Veterans Affairs 510 E. Stoner Ave. Shreveport, LA 71101 Stacy Walden, P.E. (318) 990-5277</p>	<p>Project Performed by the JV Team of Principal Engineering as Prime and Hardy as Sub. Completed the A/E design for Overton Brooks VAMC to renovate the existing Inpatient Wards on 6-West, 7-West and 8-West (approximately 31,000 GSF) for private single-occupancy patient rooms. The design included a renovation of the corridors, Nurse's Station and support areas on each floor. Patient room renovation design requirements included, but were not limited to, reconfiguration of the medical gasses, headwall units, privacy curtains, furniture layout plan, etc. The design also incorporated new lighting and signage. The patient rooms were redesigned to be more inviting to serve veterans and their families. This design also strategically addressed Patient Centered Care initiatives by privatizing patient rooms, creating more of a non-institutional setting, improve safety, infection control and reduce the cost of maintenance on the inpatient wards.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2023	\$5,000,000	100%

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>CWU Access and Enhancement Project (Welcome Center & Boat Rental Shop) St. Bernard Parish, LA</p> <p>St. Bernard Parish Govt. Department of Public Works Donald Bourgeois, Chief Administrator 1125 East St. Bernard Hwy. Chalmette, LA 70043 (504) 236-3877</p>	<p>Principal was recently selected by St. Bernard Parish Government to plan and execute architectural and engineering services for Phase I of the Central Wetlands Unit (CWU) Access and Enhancement project. The project is an eco-tourism project in which residents will be attracted to recreation and educational opportunities that the area has to offer. Phase I is to design and construct an access road, boat house, welcome center, various wooden piers and lookout decks. The project is Louisiana Tourism Recovery Program (LTRP) Funded.</p>	
Completion Date (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
July 2016	\$1,500,000	100%

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
<p>Cleary & Bright Playground Gym Renovation Jefferson Parish, LA</p> <p>Jefferson Parish Dept. of Parks & Recreation Leo Webb 6921 Saints Drive Metairie, LA 70003 lwebb@jeffparish.net</p>	<p>This project includes the selected interior renovation of each Playground Main Building and selected exterior renovation and improvements. The project involves renovating the interior of both gyms, replacing the roof at Bright and performing other misc. repairs and improvements. Outside of the original scope, installation of a metal ceiling was added to both main gyms as an alternate bid.</p>	
Completion Date (Actual or estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2020	\$1,150,000	100%

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Live Oak Kindergarten Classroom Building & Covered Gym/Play Area Jefferson Parish, LA</p> <p>Jefferson Parish Public School System, Facility Department William "Bill" Stoffle, Project Manager 4600 River Road Marrero, LA 70072 (504) 349-8595</p>	<p>This project includes the design of a new 5,000 square foot, two classroom kindergarten building and new 4,500 square foot covered play area/gymnasium. Principal performed all aspects of the project from the project programming, planning, design and preparation of construction/contract documents. Principal provided a multi-disciplined team including, architecture, civil, structural, electrical and mechanical engineering. Due to the project's vicinity to the Mississippi River levee, Principal prepared and received all regulatory agency permits and managed the river levels while excavating and performing pile driving operations.</p> <p>Performed construction administration services resulting in the project being completed with less than a 1 percent change order and is currently in use by the school system.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2012	\$1,200,000	100%

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Girard Park Playground Concession Building & Press Box Jefferson Parish, LA</p> <p>Jefferson Parish Dept. of Parks & Recreation Leo Webb 6921 Saints Drive Metairie, LA 70003</p>	<p>This project includes the renovation of the concession area, press box area, provision of sidewalk access to the baseball dugouts, modification of the site for ADA compliance, fencing replacement, a water fountain replacement, and supporting accessory items of work.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2019	\$200,000	100%

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>East Bank Sign Shop Renovation Jefferson Parish, LA</p> <p>Jefferson Parish Engineering Dept. Mark Drewes, P.E., Director 1221 Elmwood Park Blvd., Suite 802 Jefferson, LA 70123</p>	<p>This project includes the reconstruction of male and female restrooms for ADA compliance. The project requires architectural design; structural, electrical, and mechanical/plumbing engineering as well as local code and State Fire Marshal permitting approval.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2018	\$100,000	100%

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
<p>Community Center ADA Rehabilitation City of Mandeville, LA</p> <p>City of Mandeville Department of Public Works Clif Siverd, Director 1100 Mandeville High Blvd. Mandeville, LA 70471 (985) 624-3169</p>	<p>This project includes the evaluation of the City of Mandeville's Community and Senior Citizens Center for ADA compliance and the planning, design and preparation of contract documents of recommendations. The work includes the design of a new ADA compliant restroom facility, ADA entrance ramps and various other rehab improvements. Along with the ADA recommendations, the scope includes the design of a new covered vehicle entrance and accommodating driveway improvements.</p>	
Completion Date (Actual or estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2014	\$100,000	100%

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Welcome Center- Architectural & Engineering St. Bernard Parish, LA</p> <p>St. Bernard Parish Govt. Department of Public Works Donald Bourgeois, Chief Administrator 1125 East St. Bernard Hwy. Chalmette, LA 70043 (504) 236-3877</p>	<p>Principal Engineering provided A/E services for this new Welcome Center in St. Bernard Parish. Services included all architectural, electrical/mechanical, civil/site engineering, field layout, environmental, structural, etc. for a complete project from planning through construction. Project construction is currently on-hold due to funding issues. Cost: \$2.0M</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Design 2019	\$200,000 (Design)	100%

TEC Professional Services Questionnaire

M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.		
Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1. N/A - NONE		
2.		
3.		
4.		

N. Use this space to provide any additional information or description of resources supporting Firm's qualifications for the proposed project.

COMPANY PROFILE:

PRINCIPAL INFRASTRUCTURE – A/E/C, LLC is a Joint-Venture (JV) between Principal Engineering, Inc. and Hardy and Associates/ Architect, PLLC. Principal Engineering is the majority (51%) partner of the JV. Principal and Hardy have worked together on numerous local and federal A/E projects over the past 10 years through a JV and as a prime/sub relationship. Most recently, the Principal/Hardy team completed the A/E design for the St. Charles Parish Hurricane IDA Westbank Water Treatment Plant Facility Repairs and numerous Department of Veterans Affairs A/E Design Projects.

PRINCIPAL ENGINEERING, INC.

PRINCIPAL *Engineering, Inc.* (PRINCIPAL) is a full-service consulting Architecture, Engineering, and Construction services (A/E/C) firm specializing in the following disciplines: ***Architectural, Civil, Environmental, Structural, Electrical and Mechanical, and Construction Engineering Services***. Founded in 2004, we successfully provide professional services to federal, state, parish, and city governmental agencies since our inception. Over **90 percent** of our work is from governmental agencies.

PRINCIPAL *Engineering, Inc.* is fully licensed and insured to perform architectural and engineering services in the State of Louisiana. The firm is registered as a corporation with the State of Louisiana, Office of the Secretary of State and is licensed as an Engineering Firm with the **Louisiana Professional Engineering and Land Surveying Board; License no. 3168** and the **Louisiana Board of Architectural Examiners; License No. AE 0232**. In addition, we are currently licensed to practice professional engineering in the states of **Florida, Texas, Arkansas, Mississippi, Alabama, North Carolina, South Carolina, Georgia, Colorado, Arizona, Oklahoma, Ohio, Tennessee, Nevada, Nebraska, Missouri, Maine, Virginia, West Virginia, Utah, New York, and New Mexico**.

PRINCIPAL is pleased to report that we are solvent and in a solid financial condition. We have a healthy cash flow, no outstanding debts, and a favorable cash reserve. In addition to our capital reserves, PRINCIPAL has a significant cash line of credit which gives us the capacity to deploy resources when and where needed to meet the needs of our clients. We have the capacity, capability, and experience to deliver successful A/E services to the federal government. PRINCIPAL's President and Vice President are former active-duty military engineering officers and current reserve forces military engineering officers that have past successful experience working on CONUS and OCONUS US Army and US Air Force

TEC Professional Services Questionnaire

DOD Facility and Civil Works Projects.

PRINCIPAL is a verified Service-Disabled Veteran Owned Small Business (SDVOSB) with the Center for Veterans Enterprise (CVE) and PRINCIPAL is also a certified Disabled Veteran and Hudson Initiative Small Business and a Small and Emerging Business Enterprise with the Louisiana Department of Economic Development.

PRINCIPAL Infrastructure[®] is a federally registered service mark.

HARDY AND ASSOCIATES/ ARCHITECT, PLLC

Hardy and Associates/ Architect, PLLC (HA/A) is a Mississippi-based architectural firm. The firm's current staff includes two registered architects with 20 years of experience, a Project Manager with 14 years of experience, a Project manager with 28 years of experience, an Interior Designer with 9 years of experience, and a Business Manager with 5 years of experience. HA/A currently has a successful partnerships/working relationship with Singing River Hospital, Ocean Springs Hospital, Merit Health River Oaks, George Regional Hospital, Tallahatchie General Hospital, Merit Health Biloxi, Yalobusha General Hospital and Nursing Home, Rush Foundation Hospital, Merit Health Women's Hospital, Merit Health Central and several hospitals in Alabama as well as some smaller medical/clinical/commercial facilities. We also have a long-standing relationship with the Harrison County School District. With our down-to-earth approach to design needs and attention to the smallest details, HA/A has been successful in maintaining existing partnerships and contracting with new clients. It is our belief that integrity must be maintained for any working relationship to flourish, so we provide responsive, honest answers to questions posed and reliable solutions to concerns expressed by our clients. This approach to business has led to repeat business with all our current healthcare, Education and Commercial clients in the Mississippi and Alabama.

MINIMUM REQUIREMENTS FOR SELECTION:

1. **The persons or firms under consideration shall have at least one (1) principal who is a licensed, registered architect or a professional engineer in the State of Louisiana:**

The principal engineers are Mr. Henry DiFranco, Jr., President and Mr. Andre Monnot, Vice President. Both are registered professional engineers in the State of Louisiana.

2. **The persons or firms under consideration shall have a *professional in charge* of the Project who is a licensed, registered architect in the State of Louisiana with a minimum of five (5) years' experience:**

Marion "Marty" Hardy, registered architect in the State of Louisiana - License #7077

3. **The persons or firms under consideration shall have one (1) employee who is a registered professional engineer in the State of Louisiana in the applicable discipline involved.**

Principal Engineering, Inc. employs five registered professional engineers with various levels of experience in architectural projects with three of the registered senior professional engineers experienced in building design and structural engineering.

TEC Professional Services Questionnaire

EVALUATION CRITERIA:

1. Professional Training and Experience

Since 2004, Principal Engineering has performed A/E services for nearly every municipal government agency in the New Orleans Metropolitan area and all are repeat clients. As a result, Principal has a proven history of local public facility A/E design and construction success as well as established local relationships that have been built on these accomplishments. Our A/E staff has successfully completed the planning, design, and construction phase services for numerous local and federal architectural improvement projects. In addition, Principal Engineering's President, Mr. DiFranco brings unique Public Works experience to our clients; having served as a municipal engineer and Director of Public Works and Utilities for two local municipalities. This experience as an Owner's representative and consulting engineer brings valuable experience in insight to our municipal clients. The professionals at Principal stay abreast of new developments and technologies in the industry by attending annual events held by the American Society of Civil Engineers (ASCE), the Society of American Military Engineers (SAME) and the American Public Works Association (APWA). All engineers at Principal are required to maintain active registration with ASCE, SAME and APWA. Our Vice President, Mr. Monnot is an officer in the local APWA chapter.

Key Personnel Training & Experience

- **Marion Hardy, AIA, Licensed Architect**, is the **President** of Hardy & Associates/ Architect, PLLC and has over 27 years of experience in A/E design and management. He is a 1995 graduate of Mississippi State University with a B.S. in Architecture and is licensed with the LA Board #7077. Mr. Hardy is a member of the American Institute of Architects (AIA), the National Council of Architectural Registration Boards (NCARB) and the Mississippi Hospital Engineers Association.
- **Henry DiFranco, PE**, is **President** of Principal Engineering, Inc. and has over 31 years of experience in local, state and federal public works engineering and management. Mr. DiFranco served as the **Director of Public Works & Utilities** for a local Parish and held numerous positions as a Parish Public Works Engineer (Jeff Parish) and Consulting Engineer over the past **30 years**. He is also a **Lt Colonel in the USAF Reserve** serving as a **Civil Engineer officer** with the Air Force Civil Engineer Center and is a **veteran of Operation Iraqi Freedom and Noble Eagle**. Furthermore, Mr. DiFranco is the **former Chairman of the St. Tammany, Levee, Drainage and Conservation District (Governor Appointed - 2014 to 2021)**, where he has been instrumental in the planning, scope writing and implementation for the development of a *Coastal Master Plan for St. Tammany Parish*.
- **Andre Monnot, PE**, is **Vice President** of Principal Engineering, Inc. and has a diverse range of planning, engineering design and management experience in both the public sector, as a military engineer, and as a private consultant. He has demonstrated experience as a lead Structural and Civil Engineer for A/E projects and has a diverse range of planning, engineering design and management experience in both the public sector, as a military engineer, and as a private consultant. He has recently demonstrated experience performing structural and utility engineering design for numerous Department of Veterans Affairs A/E design projects, ranging from the renovation of a Pathology Lab to the complete renovation of the Emergency Room at the Biloxi VA Hospital. Most recently, Mr. Monnot served as the engineer of record for the following Jefferson Parish A/E projects, East Bank Sign Shop Restroom renovation, Cleary & Bright Playground Improvements, and the Girard Playground Concession Building. In addition, he served as the engineer of record for the St. Bernard Welcome Center and numerous City of Mandeville facility renovation projects.

2. Size of the Firm

Principal Engineering has a staff of thirty-two professional and technical employees, including engineers and engineering technicians with specialization in the evaluation, design and construction document preparation for drainage infrastructure projects. Our team includes a staff of 5 licensed professional engineers, 2 engineer interns and 3 BS graduates in engineering technology as well as A/E CADD specialists. Furthermore, our Construction Administrator has over 25 years of experience in his field.

TEC Professional Services Questionnaire

Hardy & Associates/ Architect has a staff of 10 personnel including 2 licensed architects, 1 interior designer, 2 architect interns and related technical and clerical staff.

3. Capacity for Timely Completion

Based on a review of our current and projected workload, the JV staff has the capacity to add new projects to our current design workload. PRINCIPAL strives to carefully schedule our workload and we would not bring on any assignment if we did not have the capacity, experience, or resources to complete the project within the client's anticipated schedule. We work closely with the client to develop a schedule that meets their needs for completion. A snapshot of some of our current Jefferson Parish workload, current phase and recent project additions include the following:

Current JPG Design/CPS Workload (% Complete):

- ◆ JPG – N. Pierce & Versailles Sewer LS – 100% Close Out
- ◆ JPG – Marrero WWTP Imp – 95% Close Out
- ◆ JPG – Lafitte & Pritchard Sewer LS – 10% Construction
- ◆ JPG – Jung Blvd & Falcone St. – 100% Design
- ◆ JPG – Smart Growth – Whitney Ave Bike Lane – 40% Construction
- ◆ JPG – Destrehan Sewer Lift Station – 65% Design
- ◆ JPG – Grand Isle Pump Station – 90% Design
- ◆ JPG – CA for David Drive Imp – 99% Close Out
- ◆ JPG – Laketown Boat Launch – 10% Construction
- ◆ JPG – Laketown Rock Jetty – 95% Design
- ◆ JPG – Woodmere Playground – Design 90% (Sub to Meyer)
- ◆ JPG – Third Street Drainage – 95% Design
- ◆ JPG – Stall Ditch Drainage – 15% Construction
- ◆ JPG – Bucktown Marsh Overlook Structure – 100% Design
- ◆ JPG – Woodmere Youth Center Renovations – 70% Construction

JV's available professional and support personnel in addition to those in Key Personnel section includes (but not limited to):

Principal:

- **Dwayne Marlborough, PE** – Bachelor of Science in Civil Engineering, over 25 years' experience in structural engineering, he has performed structural assessments for post hurricane infrastructure damage since Hurricane Katrina.
- **David Wittner** – LA DHH CLASS IV Water & Wastewater Operator (all areas) – Mr. Wittner has over 35 years' experience in water/wastewater operations. He has performed numerous system assessments on water/wastewater infrastructure where he documented damage and prepared cost estimates.
- **Brien Croff, PE** - Bachelor of Science in Civil Engineering, skilled water and wastewater engineer.
- **Nestor Houghton, PE** – Bachelor of Science in Electrical Engineering, over 40 years of design experience on Public Infrastructure improvement projects.
- **Natalya Munger, PH, EI** – Master of Science in Civil Engineering, skilled Hydrologist with multiple platform H&H computer modeling experience.

TEC Professional Services Questionnaire

- **Emile Barre, EI, BSME** – Bachelor of Science in Mechanical Engineering, over 25 years' experience in evaluation and design of mechanical systems.
- **Michael Melendez** – Associates in Engineering Technology, over 20 years of experience in A/E Design
- **Logan Richard** – BS in Engineering Technology, Experience working on rehabilitation projects.

Hardy:

- **Jaime Locknane, NCARB** – BS in Architecture with 21 years' experience in A/E Design; MSU Alumni
- **Dan Estes, Project Manager** – 29 years of experience in A/E Design and Construction Administration
- **Jeremy Nesbit, Architect Intern** – BS in Architecture with 4 years of experience, LSU Alumni
- **Gina Hardy, NCIDQ** – Interior Designer with over 10 years of experience, USM Alumni in Interior Design
- **Matt Johnson** – A/E Project Manager with over 20 years of experience

4. Past Performance

Principal Engineering has been providing A/E services to Jefferson Parish Government since 2004. We have performed engineering services for every Department within Jefferson Parish Public Works and have completed numerous A/E projects under this type of as-needed contract. Principal currently has an active As-Needed Architectural/Engineering contract with Jefferson Parish Government.

Principal's architects and engineers all have experience working on past Public Facilities projects for Jefferson Parish and numerous other local municipal governmental bodies in the metropolitan area. In addition, we have completed Architectural projects for St. Bernard Parish, City of Mandeville, St. Charles Parish, and the Federal Government.

5. Location of the Principal Office Performing Work

Our St. Tammany Parish, LA office, located at **1011 N. Causeway Blvd., Suite 19, Mandeville, LA** is the office where the work will be performed.

6. Adversarial Legal Proceedings

Principal Engineering, Inc. and/or Hardy & Associates/ Architect, PLLC Principal Engineering, Inc. has no past or current litigation with Jefferson Parish Government. In addition, no client has ever made a claim against Principal Engineering, Inc. or any one of our principals or employees for any error, omission, improper or incomplete A/E services; Principal has no record of any claims or litigation. Furthermore, Principal has never failed to complete any work awarded and has never filed any lawsuits or requested arbitration with regard to engineering contracts.

7. Prior Successful Completion of Projects of this Type and Nature

Principal Engineering has an excellent professional reputation with all of our governmental agency clients. Principal has provided services to nearly every public agency in the New Orleans metropolitan area as well as various State and Federal agencies. Every Governmental client is and has been a repeat customer. A partial list of our New Orleans regional area clients includes the following:

TEC Professional Services Questionnaire

- ◆ City of New Orleans, Department of Public Works
- ◆ City of Kenner, Department of Public Works
- ◆ City of Covington, Department of Engineering
- ◆ City of Mandeville, Department of Public Works
- ◆ Jefferson Parish, Department of Public Works
- ◆ Jefferson Parish School Board
- ◆ St. Tammany Parish, Department of Engineering
- ◆ St. Tammany Parish, Department of Environmental Services
- ◆ Town of Abita Springs
- ◆ City of Slidell, Department of Engineering
- ◆ Plaquemines Parish Government, Department of Public Works
- ◆ St. Bernard Parish Government, Department of Public Works
- ◆ Sewerage and Water Board of New Orleans
- ◆ Housing Authority of Jefferson Parish
- ◆ St. Charles Parish, Department of Public Works
- ◆ St. John the Baptist Parish Department of Utilities & Public Works
- ◆ Department of Veterans Affairs
- ◆ LA Coastal Protection and Restoration Authority

Additional References for Architectural/Engineering Projects:

St. Bernard Parish Government, Donald Bourgeois, Capital Projects Manager, (504) 278-4300, dbourgeois@sbsp.net – Projects: Welcome Center and CWU Education Facility

City of Mandeville, Clif Siverd, Interim Public Works Director, (985) 624-3169, csiverd@cityofmandeville.com – Projects: Numerous City Facility Improvements

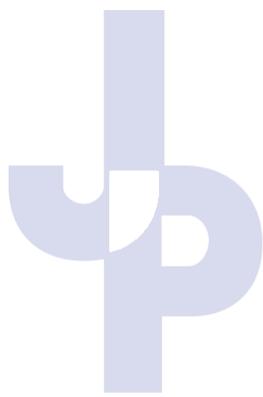
Department of Veterans Affairs, Stacy Walden, PE, Supervising Project Engineer, (318) 990-5277, stacy.walden@va.gov – Projects: Numerous Medical Facility Improvements

Department of Veterans Affairs, Craig Crawley, Architect, Capital Asset Coordinator, (228) 523-4677, Craig.Crawley@va.gov – Projects: Numerous Medical Facility & Site Improvements

In Closing:

We will provide the highest quality of personalized, professional, and state of the art technology to our clients. PRINCIPAL INFRASTRUCTURE - A/E/C is committed to assisting our clients by offering inventive solutions to evaluate, plan, design, construct and/or restore the infrastructure under their jurisdiction and to provide professional engineering services to safeguard life, health, and property of the residents that they serve.

TEC Professional Services Questionnaire

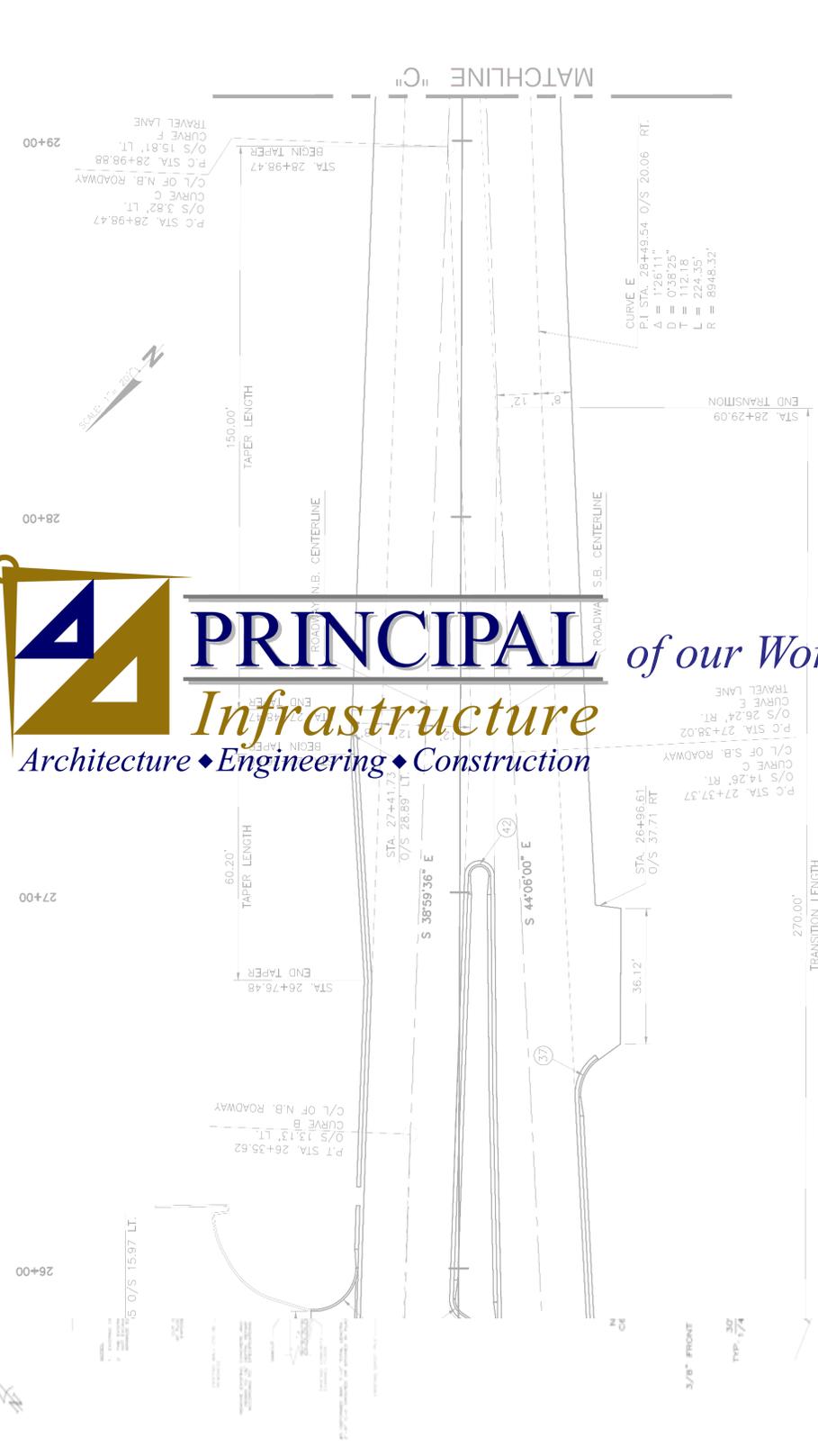


**Jefferson
Parish**
State of Louisiana

O. To the best of my knowledge, the foregoing is an accurate statement of facts.

Signature:  Print Name: Henry I. DiFranco, Jr

Title: President Date: January 19, 2023



“Improving the



PRINCIPAL

of our World”

Infrastructure

Architecture ♦ Engineering ♦ Construction

- 1 RELOCATE 1" WATER USE AROUND BECK LOCATION. MATERIAL SHALL BE 10# APPROVED PVC LINE AND FITTINGS.
- 2 REINFORCED CONCRETE HEADWALL WITH 4 INCHES CONCRETE TO 3 FEET FROM HEADWALL.
- 3 SLAB REPAIRS. LIMITS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

15 O/S 15.97 LT.

P.T. STA. 26+35.62
O/S 13.13' LT.
CURVE B

STA. 27+41.73
O/S 28.89' LT.

STA. 26+76.48
END TAPER

STA. 26+96.61
O/S 37.71 RT

P.C. STA. 27+38.02
O/S 26.24' RT.
CURVE E

CURVE E
P.I. STA. 28+49.54 O/S 20.06 RT.
A = 126'11"
D = 038'25"
T = 112.18
L = 224.35'
R = 8948.32'

3/8" FRONT
TYP. 1/2"

270.00' TRANSITION LENGTH

8'1/2"

MATCHLINE "C"

