



STATEMENT^{OF} QUALIFICATIONS

ROUTINE ENGINEERING SERVICES
FOR WATER PROJECTS

SOQ NO. 22-013
RESOLUTION NUMBER: 138809



MARCH 31, 2022

LINFIELD, HUNTER & JUNIUS, INC.

22M-033



LINFIELD, HUNTER & JUNIUS, INC.

PROFESSIONAL ENGINEERS,
ARCHITECTS AND SURVEYORS

3608 18th Street / Suite 200
Metairie, Louisiana 70002
(504) 833-5300 / (504) 833-5350 fax
LHJ@LHJunius.com

Ralph W. Junius, Jr., P.E.
Nathan J. Junius, P.E., P.L.S.
Anthony F. Goodgion, P.E.
Benjamin N. Chadwick, AIA
Charles T. Knight, P.E.
Robert E. Nockton, P.E.
Mark K. Annino, E.I.

Casey M. Genovese, P.E.
Daniel A. Flores, P.E.
John M. Jackson, P.E.
Timothy J. Roth, P.E.
Luis F. Sosa, P.E.
Richard A. Van Wootten, P.E.

March 31, 2022

Ms. Eula A. Lopez, Parish Clerk
Jefferson Parish Council
200 Derbigny Street, Suite 6700
Gretna, LA 70053

**RE: Statement of Qualifications
Routine Engineering Services for Water Projects in
Jefferson Parish for a Two-Year Period
Resolution No. 138809 – SOQ No. 22-013
Our File #: 22M-033**

Dear Ms. Lopez:

Linfield, Hunter & Junius, Inc. (LH&J) is pleased to submit its Statement of Qualifications for the Routine Engineering Services for Water Projects in Jefferson Parish for a Two-Year Period.

LH&J is well qualified to provide the services required for this project. Our Team is made up of over 12 professionals and a support staff of over 25 individuals which are available to meet all project requirements. Our Team meets or exceeds the qualifications and experience required for this project.

Contact Information:

Nathan J. Junius, P.E., P.L.S., President
Linfield, Hunter & Junius, Inc., 3608 18th Street, Suite 200, Metairie, LA 70002
njunius@LHJunius.com - 504-833-5300 - 504-833-5350 fax

We appreciate your business and look forward to continuing our relationship with Jefferson Parish.

Very truly yours,

LINFIELD, HUNTER & JUNIUS, INC.

Nathan J. Junius, P.E., P.L.S.
President

NJJ/ckc

Enclosures

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Routine Engineering Services for Water Projects in Jefferson Parish for a Two-Year Period
Resolution No. 138809
SOQ 22-013

B. Firm Name & Address where Project work will be performed:

LINFIELD, HUNTER & JUNIUS, INC.
3608 18th Street, Suite 200
Metairie, LA 70002



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:

Nathan J. Junius, P.E., P.L.S., President
Linfield, Hunter & Junius, Inc.
3608 18th Street, Suite 200
Metairie, LA 70002
504-833-5300 504-833-5350 fax
njunius@LHJunius.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.

Nathan J. Junius, P.E., P.L.S., President
Linfield, Hunter & Junius, Inc.
3608 18th Street, Suite 200
Metairie, LA 70002
504-833-5300 504-833-5350 fax
njunius@LHJunius.com

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

<u>5</u> Administrative	— Estimators	— Specification Writers
<u>1</u> Architects (Licensed)	— Geologists	<u>4</u> Structural Engineers
— Chemical Engineers	— Geotechnical Engineers	— Graduate Engineers
<u>6</u> Civil Engineers (Licensed)	— Interior Designers	— Project Managers
<u>5</u> Construction Inspectors	— Landscape Architects	<u>1</u> Clerical
— Ecologists	<u>5</u> Land Surveyor	— Grant/Funding Specialist
— Electrical Engineers	— Mechanical Engineers	— Sanitary Engineers
<u>4</u> Engineer Intern	— Environmental Engineers	<u>3</u> CADD Drafters
<u>2</u> Professional Land Surveyors	<u>1</u> Architect Intern	<u>37</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. N/A

2.

H. Has this JOINT-VENTURE previously worked together? Please check:

YES ☐ NO ☐ N/A

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):
1.N/A		
2.		
3.		

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

12

Staffing Plan – A Diagram showing all key personnel that would be available for assignment. The Staffing Plan should also include the same information for sub-consultants (if applicable).

LINFIELD, HUNTER & JUNIUS, INC.
STAFFING PLAN



**Routine Engineering Services
for Water Projects in Jefferson
Parish
SOQ No. 22-013
Resolution No. 138809**

Prime Consultant



LINFIELD, HUNTER & JUNIUS, INC.
PROFESSIONAL ENGINEERS, ARCHITECTS AND SURVEYORS

Nathan J. Junius, P.E., P.L.S.
*Principal in Charge / Land Surveying Team
Leader*

Robert E. Nockton, P.E.
Lead Civil Engineer
Project Manager

Civil Engineering

Luis F. Sosa, P.E.
Senior Civil Engineer

John M. Jackson, P.E.
Civil Engineer Team Leader

Mark K. Annino, BSCE
Civil Engineering Team

Vincent J. Leco, E.I.
Civil Engineering Team

Cecily K. Criscoe, E.I.
Civil Engineering Team

Traffic Engineering

Nathan J. Junius, P.E., PTOE

Elmer N. Darwin, P.E., PTOE
Lead Traffic Engineer

Casey M. Genovese, P.E.
Senior Roadway / Traffic Engineer

Surveying

Nathan J. Junius, P.E., P.L.S.
Lead Land Surveyor

William J. Muller, P.L.S.
Senior Land Surveyor / Lead Surveyor

Daniel D. Bindewald
Survey Party Chief

Paul H. Morales
Survey Party Chief

Christopher G. Klimm, E.I.
Survey Party Chief

Cooper G. Ashworth, E.I.
Survey Party Chief

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:

Nathan J. Junius, P.E., P.L.S., PTOE, President

Project Assignment:

Principal In Charge / Land Surveying Team Leader

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

20 Years

Education: Degree(s)/Year Specialization:

Tulane University / 2001 / B.S. / Civil Engineering
University of Texas / 2002 / M.S. / Civil Engineering

Active registration: Year first registered/discipline:

2002 / Civil / LA License No. PE.0031843 - 2005 / Land Surveying / LA License No. PLS.0004958

Other experience and qualifications relevant to the proposed Project:

Junius has over 20 years of project management, engineering design and construction management experience, with specialized expertise in the planning, permitting, design and construction management for a diverse range of public and private sector projects. Civil projects include major drainage canals, drainage pump stations, site developments, miles of streets, wastewater treatment plants, sewage collections systems, sewer force mains and **waterline distribution projects**. He has also served as an expert in disputes involving drainage and land surveying.

Junius has conducted numerous boundary, topographic, resubdivision surveys, route surveys, ALTA surveys, hydrographic surveys, utility surveys throughout Louisiana, Mississippi and Texas.

HOEY'S CANAL BYPASS – PHASE II, JEFFERSON PARISH, LA

Junius was the Principal in Charge for this project that included the construction of new pile-supported concrete drainage canal, box culvert, and **replacement of 10-inch waterline** over the box culvert.

DILLARD UNIVERSITY INFRASTRUCTURE IMPROVEMENTS, NEW ORLEANS, LA

Junius was the Principal in Charge for the analysis and design of a **new 12-inch waterline loop** to boost historically low water pressures throughout the campus. Design included the strategic connection of the new loop to existing reaches of the existing waterline system loop to boost pressures while utilizing the existing waterline system as much as was practical.

RUSSELL DRIVE WATERLINE, BELLE CHASSE, LA

Junius was the Principal in Charge for this project that consisted of the installation of a **new 12-inch diameter waterline** from Louisiana Highway 23 to the Naval Air Station, including live connections to the station water system.

WATERLINE REPLACEMENT, LOWER PLAQUEMINES PARISH, LA

Prepared construction plans and specifications and performed construction administration for the **replacement of numerous aged waterlines** in Boothville and Venice, Louisiana.

20-INCH WATERLINE REPLACEMENT, OAKVILLE TO LA REUSSITE, PLAQUEMINES PARISH, LA

Junius was the Principal In Charge on this project that consists of the **relocation of approximately 25,000 linear feet of 20-inch diameter transmission water line** to accommodate new Entergy overhead transmission facilities.

LAKE HERMITAGE WATERLINE, PLAQUEMINES PARISH, LA

Junius was the Principal In Charge for the installation of approximately **5 miles of new 12-inch HDPE waterline** located outside of the protection levee system in a marsh environment. Included in the project were canal crossings at three locations.

LAND SURVEYING

Junius currently provides surveying in many areas including hydrographic surveying, GPS surveying, single beam technology, multibeam technology and scanning including numerous topographic and boundary surveys. Survey data that LH&J provides has been imported into ArcGis in the following survey data converter formats: ASCII, TDS Coordinate and TDS Raw. The survey work has been in the State Plane Coordinate System based on NAD27. Junius is proficient with Leica Dual Frequency RTK Rovers, Leica DNA03 Digital Auto Level, Leica GPS Base Station, G-882 Magnetometer Leica Total Robotic Total Station, Leica Geo Office, Carlson Survey/Civil Software, Autocad 2016 and Civil 3D.

Junius has conducted numerous boundary, topographic, resubdivision surveys, route surveys, ALTA surveys, hydrographic surveys, utility surveys throughout Louisiana, Mississippi and Texas. One of Junius' largest surveying projects included the hydrographic and topographic surveying for the **Inner Harbor Navigation Canal (IHNC) Lake Borgne Surge Barrier** which included over a mile and half of hydrographic surveying through the marsh including topographic surveying for two gates.

CANAL STREET IMPROVEMENTS, JEFFERSON PARISH, LA

Land Surveying Team Leader for this Jefferson Parish road and drainage project. Topographic surveying for the reconstruction of a divided roadway, culverting an **open channel drainage canal**, and building a Linear Park from Lake Avenue to the I-10 Frontage Road including a bike trailhead.

HOEY'S CANAL BYPASS, JEFFERSON PARISH, LA

Land Surveying Team Leader for this drainage project. Topographic and boundary surveying for the construction of a new concrete-lined open canal including a 200-foot long 31-foot wide by 10-foot high pile-supported **covered concrete box culvert**.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Robert E. Nockton, P.E., Civil Engineer

Project Assignment:

Project Manager / Lead Civil Engineer

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

27 Years

Education: Degree(s)/Year Specialization:

Rice University / B.S. / 1995 / Civil Engineering

Active registration: Year first registered/discipline:

2000 / Civil / LA License No. PE.0028802

Other experience and qualifications relevant to the proposed Project:

Nockton worked for the firm two summers and holiday seasons while at Rice University and came to work for the firm full time upon graduation in 1995.

Nockton has been a civil engineer on numerous projects including two sealed bridge projects for the U.S. Army Corps of Engineers, urban streets projects, improvements to major drainage structures, drainage studies, water and sewerage studies, new waterlines and sewer lines, waterline and sewer line replacement and upgrades, sewage lift station design and rehabilitation, and site design. Nockton has been lead engineer or project manager on many successful projects in the last five years.

HOEY'S CANAL BYPASS – PHASE II, JEFFERSON PARISH, LA

Nockton was the Project Manager and Lead Engineer for this project that included the construction of new pile-supported concrete drainage canal, box culvert, and **replacement of 10-inch waterline** over the box culvert.

20-INCH WATERLINE REPLACEMENT, OAKVILLE TO LA REUSSITE, PLAQUEMINES PARISH, LA

Nockton was the Project Manager and Lead Engineer on this project that consists of the relocation of approximately **25,000 linear feet of 20-inch diameter transmission water line** to accommodate new Entergy overhead transmission facilities.

RUSSELL DRIVE WATERLINE, BELLE CHASSE, LA

Nockton was the Lead Engineer for this project that consisted on the installation of a **new 12-inch diameter waterline** from Louisiana Highway 23 to the Naval Air Station, including live connections to the station water system.

DILLARD UNIVERSITY INFRASTRUCTURE IMPROVEMENTS, NEW ORLEANS, LA

Nockton was the Lead Engineer for the analysis and design of a **new 12-inch waterline loop** to boost historically low water pressures throughout the campus. Design included the strategic connection of the new loop to existing reaches of the existing waterline system loop to boost pressures while utilizing the existing waterline system as much as was practical.

WATERLINE REPLACEMENT, LOWER PLAQUEMINES PARISH, LA

Prepared construction plans and specifications and performed construction administration for the replacement of numerous aged waterlines in Boothville and Venice, Louisiana.

PARISHWIDE WATER AND SEWERAGE PLANNING, PLAQUEMINES PARISH, LA

Performed analysis of existing water and sewage collection facilities Parish-wide and developed a master water and sewerage plan to provide public sewerage to presently un-sewered areas and to provide for future Parish-wide growth.

WATER DISTRIBUTION AND SEWAGE COLLECTION SYSTEMS FOR NAS HOUSING, BELLE CHASSE, LA

This project includes the installation of a sewage collection system and potable water distribution system to service 500 townhouses in a new Navy housing development. The system included 2 miles of gravity sewerage, 1 mile of sewage force main, 3 sewage lift stations and the installation of **multiple 8" diameter PVC waterline loops**.

TIDEWATER ROAD ELEVATION, VENICE, LA

Nockton was the Lead Engineer for the elevation of **3 miles** of roadway located outside of protection levee including the **replacement of 12-inch waterline** along the entire reach.

EXPANSION OF BELLE CHASSE WASTEWATER TREATMENT PLANT, BELLE CHASSE, LA

Lead Engineer for the expansion of the plant from 6MGD to 12 MGD including the rehabilitation of existing bio-towers and sludge drying beds and **replacement of numerous site waterlines**.

LAKE HERMITAGE WATERLINE, PLAQUEMINES PARISH, LA

Nockton was the Lead Engineer for the installation of approximately **5 miles of new 12-inch HDPE waterline** located outside of the protection levee system in a marsh environment. Included in the project were canal crossings at three locations.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Luis F. Sosa, P.E., Civil Engineer

Project Assignment:

Senior Civil Engineer

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

43 Years

Education: Degree(s)/Year Specialization:

Louisiana State University New Orleans / B.A. / 1973 / Biological Sciences

University of New Orleans / B.S. / 1978 / Civil Engineering

Tulane University / M.S. / 1982 / Civil Engineering

Active registration: Year first registered/discipline:

1984 / Civil / LA License No. PE.0020850

1993 / Environmental / LA License No. PE.0020850

Other experience and qualifications relevant to the proposed Project:

Sosa's experience is primarily in the areas of major drainage improvements, water treatment and distribution, sewage collection system evaluation, repair, and upgrades, sewage treatment, and land development.

Sosa has considerable experience performing hydraulic analysis of pressure pipe, including waterlines and sewage force mains.

20-INCH WATERLINE REPLACEMENT, OAKVILLE TO LA REUSSITE, PLAQUEMINES PARISH, LA

Sosa was Senior Civil Engineer on this project that consists of the relocation of approximately **25,000 linear feet of 20-inch diameter transmission water line** to accommodate new Entergy overhead transmission facilities.

LAKE HERMITAGE WATERLINE, PLAQUEMINES PARISH, LA

Sosa was Design Engineer for the installation of approximately **5 miles of new 12-inch HDPE waterline** located outside of the protection levee system in a marsh environment. Included in the project were canal crossings at three locations.

PARISHWIDE WATER AND SEWERAGE PLANNING, PLAQUEMINES PARISH, LA

Performed hydraulic analysis of existing water and sewage collection facilities Parish-wide as part of developing a master water and sewerage plan to provide public sewerage to presently un-sewered areas and to provide for future Parish-wide growth.

WATER DISTRIBUTION AND SEWAGE COLLECTION SYSTEMS FOR NAS HOUSING, BELLE CHASSE, LA

This project includes the installation of a sewage collection system and potable water distribution system to service 500 townhouses in a new Navy housing development. The system included 2 miles of gravity sewerage, 1 mile of sewage force main, 3 sewage lift stations and the installation of **multiple 8" diameter PVC waterline loops**. Sosa performed the hydraulic analysis of the waterline loops, sewage force mains and sewage lift stations.

EXPANSION OF BELLE CHASSE WASTEWATER TREATMENT PLANT, BELLE CHASSE, LA

Sosa was Senior Civil Engineer responsible for performing process design and hydraulic analysis for the expansion of the plant from 6MGD to 12 MGD including the rehabilitation of existing bio-towers and sludge drying beds and **replacement of numerous site waterlines**.

BELLE CHASSE WATER TREATMENT PLANT MEDIA REPLACEMENT, BELLE CHASSE, LA

Sosa was Lead Civil Engineer responsible for performing process design and hydraulic analysis for the replacement of sand and anthracite filter media.

BELLE CHASSE WATER TREATMENT PLANT RAW WATER INTAKE REPLACEMENT, BELLE CHASSE, LA

Sosa was Lead Engineer responsible for the analysis of raw water pumping and raw water intake replacement to accommodate Mississippi River levee work.

SALTWATER MITIGATION PROJECT, PLAQUEMINES PARISH, LA

Sosa was Lead Engineer responsible for the hydraulic analysis of the existing Parish water transmission and distribution system and for the hydraulic analysis of proposed improvements to the system to combat elevated salinity levels in the lower end of the Parish.

In addition to the above specific water projects, Sosa has designed hundreds of thousands of linear feet of gravity sewer lines and sewage force mains and dozens of pumping systems for drainage, water and sewerage.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

John M. Jackson, P.E.

Project Assignment:

Civil Engineering Team Leader

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

7 Year

Education: Degree(s)/Year Specialization:

University of New Orleans / 2018 / BS / Civil Engineering

Bob Jones University / 2011 / B.S. / Biology

Active registration: Year first registered/discipline:

2021 / Civil / LA License No. PE.0045804

Other experience and qualifications relevant to the proposed Project:

Jackson specializes in the **design of civil projects such as water lines** and sewer lines, drainage pump stations, improvements to major drainage structures, drainage studies, storm water management systems with green infrastructure, surveying, urban streets, highways, site developments, and utility expansions and relocations.

Jackson has varied experience in design for public clients including parish and local governments; and private clients, including commercial, institutional and industrial. His design experience includes a range of civil engineering and surveying disciplines for site investigation, feasibility study, conceptual layouts, value engineering, detailed designs, preparation of plans and specifications, and cost estimates. Jackson has successfully designed projects for **Jefferson Parish**, Plaquemines Parish, and City of New Orleans Department of Public Works.

Jackson is a licensed Remote Pilot to fly drones for aerial surveys.

S&WB WATERLINE REPLACEMENT PROGRAM MARLYVILLE – FOUNTAINBLEAU NEIGHBORHOOD, NEW ORLEANS, LA

Jackson designed the **waterline replacement** for two RR projects within this neighborhood, and administrated the construction RR118. The two projects combined replaced approximately 4,825 linear feet of existing water main.

TEC Professional Services Questionnaire

John M. Jackson, P.E., Civil Engineer
Project Assignment – Civil Engineering Team Leader

S&WB WATERLINE REPLACEMENT PROGRAM LEONIDAS NEIGHBORHOOD, NEW ORLEANS, LA

Jackson designed the **waterline replacement** for two RR projects within this neighborhood. The two projects combined replaced approximately 3,600 linear feet of existing water main, using both open trench and horizontal directional drilling processes.

LEONIDAS STREET AND FIG STREET COMPRESSION-FIT WATER TRANSMISSION LINE, NEW ORLEANS, LA

Jackson was the designer and project manager of this **water main replacement** project. The project consisted of installing approximately 6,500 linear feet of 42" HDPE pipe inside an existing water main using a swage lining process. The project included the installation of a 42" butterfly valve and valve vault. Jackson oversaw the design and construction of this project.

SPRUCE STREET COMPRESSION-FIT WATER TRANSMISSION LINE, NEW ORLEANS, LA

Jackson was the designer and project manager of this **water main replacement** project. The project consisted of installing approximately 2,300 linear feet of 30" HDPE pipe inside an existing water main using a swage lining process. The project included the installation of a 30" butterfly valve and valve vault.

KENNER DISCOVERY MODULAR CAMPUS, KENNER, LA

Jackson was Stormwater Management Engineer for this project. This project was a flood mitigation study including hydraulic modeling, drainage design, ecological considerations, storm water detention and green infrastructure

FEMA RECOVERY ROADS PROGRAM (RR028) DESIRE GROUP C, NEW ORLEANS, LA

Assisted the project Engineer in full Engineering services including topographic surveying, preliminary and final design, bidding, construction administration and resident inspection. The total project consists of the of 20,585 linear feet of roadway reconstruction and rehabilitation. This includes the design and replacement or repair of the storm drainage system, gravity sewer lines and water mains.

HAYNE BOULEVARD RELIEF WELL DRAINAGE, NEW ORLEANS, LA

Assisted in the survey for the Hayne Boulevard relief well system. This survey was assigned to locate relief well structures and to identify the current drainage system for future drainage improvements along Hayne Blvd. in New Orleans, LA.

MAGAZINE STREET ROADWAY IMPROVEMENTS, NEW ORLEANS, LA

Assisted project engineer in reconstruction of Magazine St. from Leake Avenue to East Drive. The reconstruction includes regrading, new striping, adjustment of utility manholes where applicable, removal & replacement of roadways and sidewalks, and installation of ADA ramps. The total project includes 12,500 linear feet of 35' wide concrete roadway construction, which includes a heavy-duty asphalt pavement with an underlying aggregate base course. One section of Magazine Street, consisting of 2,000 linear feet within Audubon Park, requires a major realignment in order to incorporate turning lanes accessing the park's facilities.

GEISENHEIMER CANAL IMPROVEMENTS, METAIRIE, LA

Assisted project engineer in design of a 8'X12' box culvert paralleling existing Geisenheimer drainage canal over a distance of approximately 2,800 linear feet. Box culvert is structurally integrated with existing drain lines at three junction box tie-in locations.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Mark K. Annino, BSCE

Project Assignment:

Civil Engineering

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

27 Years

Education: Degree(s)/Year Specialization:

University of New Orleans / B.S. / 1995 / Civil Engineering

Active registration: Year first registered/discipline:

1995 / Civil / LA License No. EI.0016308

Other experience and qualifications relevant to the proposed Project:

Since joining the firm in 1995, Annino has prepared plans and specifications for numerous municipal and private projects. The scopes of these projects include design of roadways, **water distribution systems**, utility system replacement / relocation (sewer, water, drain, etc.), hydraulic structures and horizontal / vertical geometric layouts for roadways and bridges. Annino has also been involved in the permit application process and construction administration of several of these projects.

HOEY'S CANAL BYPASS – PHASE II, JEFFERSON PARISH, LA

This project that included the construction of new pile-supported concrete drainage canal, box culvert, and **replacement of 10-inch waterline** over the box culvert.

EAST AND WEST LIVINGSTON PLACE ROADWAY IMPROVEMENTS, METAIRIE, LA

This project consisted of the reconstruction of East and West Livingston Place including installation of new subsurface drainage, **water** and sanitary sewer line replacements and utility relocation.

LOUISVILLE STREET / CATINA STREET RECONSTRUCTION, NEW ORLEANS, LA

This project entailed the reconstruction of 3,950 feet of roadway including replacement of **water** and sanitary sewer lines and utility relocation.

MAGAZINE STREET / PRYTANIA STREET RECONSTRUCTION, NEW ORLEANS, LA

This project entailed the reconstruction of 26,500 feet of roadway including replacement of **water** and sanitary sewer lines and utility relocation.

HOLLYGROVE DRAINAGE IMPROVEMENTS, NEW ORLEANS, LA

LH&J designed all improvements including the covered box culverts, subsurface drainage, two drainage pumping stations, **water distribution system**, sanitary sewerage replacement and relocation, utility relocations and roadway reconstruction.

EARHART CORRIDOR RECONSTRUCTION, NEW ORLEANS, LA

This project entailed the reconstruction of 7,000 feet of roadway including replacement of **water** and sanitary sewer lines and utility relocation.

RUSSELL DRIVE WATERLINE, BELLE CHASSE, LA

This project consisted on the installation of a **new 12-inch diameter waterline** from Louisiana Highway 23 to the Naval Air Station, including live connections to the station water system.

PPG WATER AND SEWERAGE PLANNING – STUDY OF SEWERAGE IMPROVEMENTS PARISH-WIDE WITH PHASING AND COST ESTIMATES

LH&J provided complete engineering services for growth projection, flow projections, assessment of existing systems, analysis of alternative improvements to provide for growth, setting of construction budgets and recommended improvements and projection of capital requirements for system expansion and rehabilitation over the next 20 years parish wide.

20-INCH WATERLINE REPLACEMENT, OAKVILLE TO LA REUSSITE, PLAQUEMINES PARISH, LA

This project consists of the relocation of approximately **25,000 linear feet of 20-inch diameter transmission water line** to accommodate new Entergy overhead transmission facilities.

LAKE HERMITAGE WATERLINE, PLAQUEMINES PARISH, LA

Installation of approximately **5 miles of new 12-inch HDPE waterline** located outside of the protection levee system in a marsh environment. Included in the project were canal crossings at three locations.

WATERLINE REPLACEMENT, LOWER PLAQUEMINES PARISH, LA

Prepared construction plans and specifications and performed construction administration for the replacement of numerous aged waterlines in Boothville and Venice, Louisiana.

EXPANSION OF BELLE CHASSE WASTEWATER TREATMENT PLANT, BELLE CHASSE, LA

Expansion of the plant from 6MGD to 12 MGD including the rehabilitation of existing bio-towers and sludge drying beds and **replacement of numerous site waterlines**.

WATER DISTRIBUTION AND SEWAGE COLLECTION SYSTEMS FOR NAS HOUSING, BELLE CHASSE, LA

This project includes the installation of a sewage collection system and potable **water** distribution system to service 500 townhouses in a new Navy housing development. The system included 2 miles of gravity sewerage, 1 mile of sewage force main, 3 sewage lift stations and the installation of **multiple 8" diameter PVC waterline loops**.

TIDEWATER ROAD ELEVATION, VENICE, LA

Elevation of **3 miles** of roadway located outside of protection levee including the **replacement of 12-inch waterline** along the entire reach.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Vincent J. Leco, III, E.I.

Project Assignment:

Civil Engineering

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

2 Year

Education: Degree(s)/Year Specialization:

University of New Orleans - B.S. / 2019 / Civil Engineering

Active registration: Year first registered/discipline:

Civil / LA License / EI.0034160

Other experience and qualifications relevant to the proposed Project:

Leco is a civil engineer intern who has been with LH&J for two years. He has worked on various civil engineering projects including improvements to major drainage structures, storm water management systems with green infrastructure, drainage pump stations, drainage studies, **new waterlines**, new sewer lines, utility expansions and relocations, surveying and site design.

FEMA RECOVERY ROADS PROGRAM (RR028) DESIRE GROUP C, NEW ORLEANS, LA

Assisted the project Engineer in full Engineering services including topographic surveying, preliminary and final design, bidding, construction administration and resident inspection. The total project consists of the of 20,585 linear feet of roadway reconstruction and rehabilitation. This includes the design and replacement or repair of the storm drainage system, gravity sewer lines and **water mains**.

LEONIDAS-FIG ST. TRANSMISSION WATERMAINS, NEW ORLEANS, LA

Assisted the project Engineer in the **waterline replacement design**. The project consists of compression fit HDPE lining approximately 6700 linear feet of an existing 43.31" cast iron **water transmission main**, including connections at several locations, replacement of a section of 8" water main, and pavement replacement.

MARYVILLE-FONTAINBLEAU GROUP H (RR123), NEW ORLEANS, LA

Assisted the project Engineer in the **waterline replacement design**. The project consists of replacing approximately 1300 linear feet of existing **watermain**, including connections at several locations.

TEC Professional Services Questionnaire

Vincent J. Leco, E.I.
Project Assignment – Civil Engineering

GEISENHEIMER CANAL IMPROVEMENTS, METAIRIE, LA

Assisted project engineer in design of a 8'X12' box culvert paralleling existing Geisenheimer drainage canal over a distance of approximately 2,800 linear feet. Box culvert is structurally integrated with existing drain lines at three junction box tie-in locations.

LOUMOR OUTFALL DITCH IMPROVEMENTS, METAIRIE, LA

Assisted project engineer in design of two (2) new underground drainage lines. One drainage line consist of 78" X 122" Reinforced Concrete Pipe Arch (RCPA) segments along the existing drain line identified as Loumor Ditch combining to approximately 1,300 linear feet. The second line consists of a 9'X6' box culvert spanning approximately 320 linear feet. These new segments will tie-into the existing below-grade Geisenheimer Canal box culvert that extends along Airline Drive.

VULCAN STREET, HARVEY, LA

Design of drainage upgrades and road replacement along Vulcan St. from Par 3 Dr. to Telestar St. Responsible for coordination with client and currently involved in construction administration for the ongoing project. The project includes removal and replacement of driveways, handicap ramps, and approximately 1,000 linear feet of 28' wide of concrete road.

HAYNE BOULEVARD RELIEF WELL DRAINAGE, NEW ORLEANS, LA

Assisted in drafting the survey for the Hayne Boulevard relief well system. This survey was assigned to locate relief well structures and to identify the current drainage system for future drainage improvements along Hayne Blvd. in New Orleans, LA.

MAF BUILDING 103 DRAINAGE STUDY, NEW ORLEANS, LA

Assisted project engineer in analyzing **hydraulics of the roof drainage system** for Building 103 Michoud Assembly Facility including the **subsurface drainage** under the building and extending to the pumped outfall canal and to recommend improvements to reduce ponding on the approximate 38 acre building roof.

HOLMES BLVD. REHABILITATION, GRETN, LA

Engineer Intern, assisted in design and constructing of traffic signal plans, construction phasing/detour plans, and striping plans for Holmes Blvd. rehabilitation from Browning Ln. to Behrman Hwy.

DESIRE STREET NEIGHBORHOOD, NEW ORLEANS, LA

Engineer Intern, assisted in design on this project. The project includes subsurface drainage improvements and roadway reconstruction on Piety St. from Florida Ave. to Higgins Blvd. The project also includes numerous paving incidental repairs and bringing all involved intersections to meet ADA code throughout Desire neighborhood.

MAGAZINE STREET ROADWAY IMPROVEMENTS, NEW ORLEANS, LA

Engineer Intern, assisted project engineer in reconstruction of Magazine St. from Leake Avenue to East Drive. The reconstruction includes regrading, new striping, adjustment of utility manholes where applicable, removal & replacement of roadways and sidewalks, and installation of ADA ramps. The total project includes 12,500 linear feet of 35' wide concrete roadway construction, which includes a heavy-duty asphalt pavement with an underlying aggregate base course. One section of Magazine Street, consisting of 2,000 linear feet within Audubon Park, requires a major realignment in order to incorporate turning lanes accessing the park's facilities.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Cecily K. Criscoe, E.I.

Project Assignment:

Civil Engineering

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

1 Year

Education: Degree(s)/Year Specialization:

Louisiana State University / B.S. / 1996 / Chemistry/
Louisiana State University / M.S. / 2010 / Civil Engineering (Coastal)

Active registration: Year first registered/discipline:

2021/Civil/LA License No. E.I.0034794

Other experience and qualifications relevant to the proposed Project:

Criscoe has both coastal/environmental inspection and design experience as well as municipal roadway and drainage design experience. She has worked on environmental surveys and assessment reports, cost analysis for dredging contracts and for road reconstruction and redesign projects. Additionally, she has engineering drawing, design, and modeling experience for coastal restoration, underground aquifer conservation, roadway and drainage redesign and reconstruction.

RIVERTOWN INDUSTRIAL PARK JEFFERSON HIGHWAY PROPERTY, KENNER, LA

Criscoe uses Autodesk Storm and Sanitary Analysis software to design and calculate pre and post construction storm water runoff over a 13-acre currently undeveloped site in Kenner, LA. She models and designs detention ponds and a piping network to ensure compliance with local drainage codes through routing, draining, and storing runoff in-excess-of the pre-construction condition.

CONSTRUCTION MANAGEMENT AND ROADWAY REDESIGN, MINNESOTA

Criscoe was project manager for multiple road reconstruction projects with culverts and flood crossings in rural Minnesota following a spring flooding event due to snow melt that washed out many gravel roads, culverts, and stream embankments. Cost estimation was a necessary part of her role in the project.

TEC Professional Services Questionnaire

Cecily K. Criscoe, E.I.
Project Assignment – Civil Engineering

Resume

CHRIS KENNEDY BRIDGE REPLACEMENT, PEARL RIVER, LA

Criscoe uses the HEC RAS software to design and model depth of flow through Gum Creek during various storm frequency conditions in Pearl River, LA in-order-to determine parameters for bridge redesign.

WEST NAPOLEON AVENUE EXTENSION TO CONNECT WITH AIRPORT ACCESS ROAD IN KENNER, LA – FEASIBILITY STUDY STAGE 0

Criscoe is a traffic design engineer on this study that will identify necessary improvements to facilitate traffic movement into and out of the airport and eastward and westward along Veterans Blvd and Airline Hwy by extending West Napoleon Ave to Airport Access Road. Budgetary costs will be developed to increase transportation, modal efficiency and enhance safety for all users of West Napoleon Ave. and Airport Road and recommendations will be made to improve operational effectiveness and accessibility by vehicular and non-motorized modes along the corridor. Criscoe models traffic alternatives for this project using Synchro software.

TRAFFIC IMPACT ANALYSIS FOR BELLE CHASSE HIGHWAY 190 – UNIT MID RISE APARTMENT COMPLEX JEFFERSON PARISH, LA

Criscoe conducted this traffic impact analysis by gathering data in field investigations and using this data and data attained from trip generation calculations along with Synchro software to model effects of building a 190-Unit Midrise Apartment Complex at the selected location on Belle Chasse Highway.

FORT POLK MATOC ST. MARY PARISH, LA

Criscoe assisted in the design for the construction of three roads within the base, including grading, drainage and horizontal layout for reworking of Haymon, Self, & McInnis Roads.

PORT OF LOUISIANA AND PORT OF NEW ORLEANS DAMAGE ASSESSMENT REPORTS FOLLOWING IDA

Criscoe managed crew of 4 and acted as liaison to team lead for damaged building reports - with several rounds of inspecting, calculating, and editing.

WETLAND DELINEATION AND ENVIRONMENTAL ASSESSMENTS, TEXAS AND LOUISIANA

Criscoe received certification in wetland delineation and performed environmental field surveys in both Texas and Louisiana. She also aided in the organization, research, and writing of Environmental Assessments for NEPA.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Elmer N. Darwin, P.E., Traffic Engineer

Project Assignment:

Lead Traffic Engineer

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

10 Years

Education: Degree(s)/Year Specialization:

University of New Orleans / BS / 1970 / Civil Engineering
Northwestern University / 1975 / Principals of Geometric Design

Active registration: Year first registered/discipline:

1975 / Civil / LA License No. PE.0020404

Other experience and qualifications relevant to the proposed Project:

Mr. Darwin works as a consultant to Linfield, Hunter & Junius, Inc. on projects that require Traffic Engineering.

Darwin has designed numerous traffic signals for LH&J including the signalization at Dickory-Sauve intersection.

Darwin's experience has been as a Traffic Engineer since 1974. His work with the City of New Orleans, Department of Streets (Public Works) from 1974-2008 includes the following:

- Supervision of all traffic signal control activities, including the preparation of investigative studies relative to the installation or modification of signal equipment or systems; the design of signal layouts and preparation of bid documents for the implementation or modification of signal equipment; the development and maintenance of timing parameters for and the general operation of all signalized intersections within the jurisdiction, including the 206-intersection computerized traffic signal control system which existed at that time; the preparation and distribution of legal documents relative to lawsuits and claims involving signal controls as well as personal appearances to give expert testimony at legal proceedings; and all signal maintenance activities, including the administration of the Traffic Signal Maintenance Shop, which has 24-hour emergency and non-emergency responsibility of approximately 400 signalized intersections citywide.

- Administration of the Traffic Engineering Division of the Department of Public Works, which is responsible for the management of capital projects, the performance of investigative studies, the preparation and approval of bid documents, the administration of support contracts, and the coordination of field and legal activities involving the conception, design, implementation, construction, modification, operation, and maintenance of all traffic control signs, signals, and roadway markings in the City of New Orleans. Its functions further include the review of impact studies involving new development and the review and approval of all roadway closures and traffic control plans associated with construction projects, special events, and emergency situations. It is also responsible for the issuance of six exclusive types of permits and the collection of related revenues.

At present Darwin is a Traffic Engineering Consultant and provides the following services:

- Provide Traffic Engineering technical support in the development or revision of traffic signal systems as it relates to equipment type and placement, display configuration, timing and sequencing parameters, and general design considerations; perform research of prospective development sites and perform comprehensive and detailed analyses of prevailing area traffic circulation patterns and projected trip ends in order to ascertain and evaluate the ultimate impact of the proposed land use; develop single and multi-phased traffic control plans for the safe and efficient operation of vehicular movements which are necessarily altered and/or impacted by construction projects, special events, or emergency situations.



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Casey M. Genovese, P.E., Senior Roadway / Traffic Engineer

Project Assignment:

Traffic Engineering

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

16 Years

Education: Degree(s)/Year Specialization:

Louisiana State University / B.S. / 2005 / Civil Engineering

Active registration: Year first registered/discipline:

2006 / Civil / LA License No. PE.0035327

Other experience and qualifications relevant to the proposed Project:

Genovese has been working at Linfield, Hunter & Junius, Inc. since he graduated from Louisiana State University in December 2005. He is currently working on numerous CVS Pharmacy projects throughout the state which include **new water lines**, new roadway work, utility design and traffic engineering. Genovese is in charge of the traffic work for all CVS/Pharmacy projects. His traffic and roadway expertise is often called upon when needed for other projects within the office.

CVS – KENNER, LA, WILLIAMS BLVD. & WEST NAPOLEON AVENUE

Genovese was **Project Manager and Lead Civil Engineer** for this project. The project included the design of all the paving and utilities including sanitary sewer, storm drain, **potable and fire water**, power and gas, and traffic design for this development.

CVS - COVINGTON, LA - LA 21 & LA 1085

Genovese was **Project Manager and Lead Civil Engineer** for this project. The project included the design of all the paving and utilities including sanitary sewer, storm drain, **potable and fire water**, power and gas, and traffic design for this development.

CVS - MEMPHIS, TN - US 64 & HOUSTON LEVEE ROAD

Genovese was **Project Manager and Lead Civil Engineer** for this project. The project included the design of all the paving and utilities including sanitary sewer, storm drain, **potable and fire water**, power and gas, and traffic design for this development.

CVS – KENNER, LA, WILLIAMS BLVD. & WEST NAPOLEON AVENUE

Genovese was Project Manager and Lead Civil Engineer for this project: Traffic Impact Analysis and George Avenue Road Design

Casey M. Genovese, P.E., Senior Roadway / Traffic Engineer
Project Assignment – Traffic Engineering

Resume

CVS - COVINGTON, LA - LA 21 & LA 1085

Genovese was Project Manager and Lead Civil Engineer for this project: Resignalization and Intersection Restriping from a signalized T-intersection to a signalized 4-way approach intersection.

CVS - MEMPHIS, TN - US 64 & HOUSTON LEVEE RD.

Genovese was Project Manager and Lead Civil Engineer for this project: Road Widening, Intersection Restriping, Signal Pole Relocation & Resignalization

CVS - DENHAM SPRINGS, LA - S. RANGE AVE. (LA 3002) & NORTH ST.

Genovese was Project Manager and Lead Civil Engineer for this project: Design of a New Span Wire Traffic Signal including Intersection Restriping

CVS - MEMPHIS, TN - PARK AVE. & S. HIGHLAND ST.

Genovese was Project Manager and Lead Civil Engineer for this project: Intersection Radius Improvements, Signal Pole Relocation & Resignalization

CVS - OPELOUSAS, LA - US 190 & WALLIOR ST.

Genovese was Project Manager and Lead Civil Engineer for this project: Right Turn Lane Extension

CVS - BOSSIER CITY, LA - AIRLINE DR. & WEMPLE RD.

Genovese was Project Manager and Lead Civil Engineer for this project: Right Turn Lane Extension



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

William J. Muller, P.L.S., Registered Land Surveyor

Project Assignment:

Senior Land Surveyor / Lead Land Surveyor

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

16 Years

Education: Degree(s)/Year Specialization:

Southeastern Louisiana University / 1954

Active registration: Year first registered/discipline:

1995 / Land Surveying / LA License No. PLS. 0004756

Other experience and qualifications relevant to the proposed Project:

Muller has extensive experience in all aspects of land surveying throughout Louisiana. He was technical manager for the largest land survey firm in Southeast Louisiana for many years. Prior to that he worked in the offshore industry spotting well locations, run field crews for numerous Louisiana Power and Light topographic and boundary surveys, analyzed thousands of boundary surveys, and supervised multiple field crews, draftsmen and land surveys. He has been providing land surveying for the firm the past 11 years.

Following is a small sampling of Muller's experience:

WOODLAND DRIVE – GENERAL DEGAULLE DRIVE TO TULLIS DRIVE

Lead Land Surveyor. Topographic and boundary survey for City of New Orleans roadway project.

MAGAZINE STREET - ROADWAY IMPROVEMENTS

Lead Land Surveyor. Topographic and boundary survey for City of New Orleans roadway project.

GENERAL DEGAULLE CANAL CROSSINGS

Lead Land Surveyor. Topographic and boundary survey for State Highway 428.

SOUTH CLAIBORNE AVENUE CANAL I

Lead Land Surveyor. Topographic and boundary survey for State Highway 90.

ST. CHARLES AVENUE NAPOLEON AVENUE TO CALLIOPE STREET

Lead Land Surveyor. Topographic and boundary survey for City of New Orleans roadway.

I-10 METAIRIE – CAUSEWAY TO ORLEANS PARISH LINE

Lead Land Surveyor. Topographic and boundary survey for Interstate 10.

I-10 METAIRIE – CLEARVIEW TO CAUSEWAY

Lead Land Surveyor. Topographic and boundary survey for Interstate 10.

I-10 METAIRIE – VETERANS MEMORIAL BLVD. TO CLEARVIEW

Lead Land Surveyor. Topographic and boundary survey for Interstate 10.

I-10 KENNER – WILLIAMS BLVD. INTERCHANGE

Lead Land Surveyor. Topographic and boundary survey for Interstate 10.

US 190 - MANDEVILLE – CAUSEWAY TO STATE PARK

Lead Land Surveyor. Topographic and boundary survey for U.S. Highway 190.

US 190 - SLIDELL – FREMAUX INTERCHANGE

Lead Land Surveyor. Topographic and boundary survey for U.S. Highway 190.

US 190 - SLIDELL - FREMAUX- 9th TO I-10

Lead Land Surveyor. Topographic and boundary survey for U.S. Highway 190.

I-10 SLIDELL - LA 433 TO US 190

Lead Land Surveyor. Topographic and boundary survey for Interstate 10.

US 190 SLIDELL - US 11 TO THOMPSON RD.

Lead Land Surveyor. Topographic and boundary survey for U.S. Highway 190.

ST. TAMMANY PARISH EAST OF ABITA SPRINGS – NEW HIGHWAY FROM LA 36 TO LA 435

Lead Land Surveyor. Topographic and boundary survey for new Louisiana state highway.

LA 611 – METAIRIE ROAD

Lead Land Surveyor. Topographic and boundary survey for State Highway LA 611.

I-10 NEW ORLEANS - S. BROAD TO ST. CHARLES

Lead Land Surveyor. Topographic and boundary survey for Interstate 10.

LA 3139 EARHART BLVD. – JEFFERSON/ORLEANS PARISH LINE TO CLARA ST.

Lead Land Surveyor. Topographic and boundary survey State Highway 3139.

LAKE CHARLES - McNEESE/AIRPORT

Lead Land Surveyor. Topographic and boundary survey for Lake Charles, Louisiana airport.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Daniel D. Bindewald, Survey Party Chief

Project Assignment:

Survey Party Chief

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

13 Years

Education: Degree(s)/Year Specialization:

Southeastern Louisiana University / B.A. / Criminal Justice

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Bindewald initially joined LH&J as a survey party crew member and began performing as the **crew chief** of LH&J's Survey Party Team 2 in 2009. Bindewald is proficient in the use of modern GPS/RTK survey instruments, as well as conventional total stations and levels. He is experienced in performing land surveys in all types of environments, including urban, forests and marshes. Bindewald has led survey crews conducting boundary, topographic and hydrographic surveys in Louisiana, Texas and Mississippi. He is knowledgeable of the USACE New Orleans District Minimum Survey Standards Edition 4.1, February 2015, (as well as prior editions) and has a high level of experience and expertise ensuring that all survey work performed by LH&J for the USACE New Orleans district is performed in strict compliance with these standards.

INNER HARBOR NAVIGATION CANAL SURGE PROTECTION BARRIER, ORLEANS PARISH, LOUISIANA

Provided surveying services including locating borings in the field and providing elevations with latitude and longitude coordinates. Located the USACE baselines and tied into the project control to provide station and offset data. Benchmarks were occupied and set for project control. Existing and final cross sections were taken providing cut/fill quantities, station and offset data for 36" diameter pipe piles were provided for QA/QC measures. Bindewald was the GPS survey party crew chief responsible for the accurate collection of all field survey data and reviewed the developed survey files and drawings for consistency with USACE New Orleans District Minimum Survey Standards. Construction cost was in excess of \$1.5 billion.

TEC Professional Services Questionnaire

Daniel D. Bindewald, Survey Party Chief
Project Assignment – Survey Party Chief

Resume

STORM PROOFING ORLEANS PARISH DRAINAGE PUMP STATIONS, NEW ORLEANS, LA

Provided topographic surveys of 18 existing pump station sites for the project. Baselines and benchmarks were established to obtain elevations and latitude/longitude data. Utilities were located and related to the baselines using station/offset data, right-of-way maps were provided to the USACE for project design. Bindewald was the GPS Survey party crew chief responsible for the accurate collection of all field survey data and reviewed the developed survey files and drawings for consistency with USACE New Orleans District Minimum Survey Standards. Program Cost was approximately \$200 million.

PREPARATION OF PLANS AND SPECIFICATIONS FOR THE HURRICANE PROTECTION SYSTEM AT WEST BANK NON-FEDERAL LEVEE NOV-NF-W-04 OAKVILLE TO LAREUSSITE IN PLAQUEMINES PARISH, LA

During the design of this 8.3 mile levee and fronting protection project, Bindewald was the GPS survey party crew chief responsible for performing the supplemental surveys that were needed to complement the Government furnished survey information. Detailed topographic surveys were performed using GPS/RTK equipment at the Ollie Pump Station and at the interface with the adjacent WBV-09a floodwall. Hydrographic surveys were performed to collect bathymetric data for a number of canals and bodies of water that are immediately adjacent to the levee alignment. All elevation data was collected using the North American Vertical Datum (N.A.V.D. 88) (2004.65) and all X-Y coordinates were based upon the Louisiana State Plane Coordinate System, South Zone NAD 83, in U.S. survey feet. During the construction of the project, Bindewald was the GPS survey party chief responsible for field locating the locations for installing 30 temporary bench marks (TBMs) that were supported by 60-foot deep concrete filled boreholes. After construction of the TBMs he performed high precision ± 1.5 mm leveling surveys to tie the TBMs into the required vertical and horizontal datums. He also filed located the installation locations for 34 geotechnical instrumentation clusters and monitoring panels that are used to measure settlement during the first stage of the levee construction and then surveyed the precise elevation and location for each instrument after they were installed. As part of the settlement monitoring program, every two weeks Bindewald leads a survey crew that performs high precision elevation surveys of each of the 34 settlement plates and monitoring panels so that surveyed data can be correlated to the remotely monitored settlement gauges. Construction cost of the project is approximately \$45 million.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Paul H. Morales, IV, Survey Party Chief

Project Assignment:

Survey Party Chief

Name of Firm with which associated:

LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

9 Years

Education: Degree(s)/Year Specialization:

University of New Orleans / B.S. / 2013 / Civil Engineering

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Morales has both civil engineering design experience and resident inspection experience. During two summers while still in college, he often served as an LH&J survey crew member. He was a design engineer for civil site work on numerous CVS/Pharmacy and Dollar General store sites. Large Scale Topographical and ALTA Surveys for U.S. Army Corps of Engineers, Plaquemines Parish Government and a major pharmacy chain. Elevation, Construction Layout and Pile Layout, GPS, Robotics, Total Station experience including data transfer, plotting and printing. Manual and Mechanical Traffic Counts. TWIC

RELEVANT EXPERIENCE:**DESIRE NEIGHBORHOOD TOPOGRAPHIC AND SUBSURFACE SURVEY, NEW ORLEANS, LA**

LH&J provided topographic surveying services for the project that consisted of the patching and reconstruction of 20,285 linear feet of roadway across 39 blocks, construction of new concrete roadway, replacement of the storm drainage system, sewer lines and water mains. Role: Survey Party

INNER HARBOR NAVIGATION CANAL SURGE PROTECTION BARRIER, ORLEANS PARISH, LA

Provided surveying services including locating borings in the field and providing elevations with latitude and longitude coordinates. The USACE baselines were located and tied into the project control to provide station and offset data. Benchmarks were occupied and set for project control. Existing and final cross sections were taken providing cut/fill quantities, station and offset data for 36-inch diameter pipe piles were provided for QA/QC measures. Morales performed as a survey party technician for the accurate collection of all field survey data and reviewed the developed survey files and drawings for consistency with New Orleans District Minimum Survey Standards. Construction cost >\$1.5B

TEC Professional Services Questionnaire

Paul H. Morales, IV, Survey Party Chief
Project Assignment – Survey Party Chief

HSDRRS LEVEE PROFILES FOR SOUTHEAST LOUISIANA FLOOD PROTECTION AUTHORITY – EAST – LAKE PONTCHARTRAIN LEVEE SYSTEM

Approximately 63 miles of earthen levee centerline profile surveys in Jefferson, Orleans and St. Bernard Parish using tilt rover and base stations. Project compared the existing profile elevations to the design profile elevations.

SOUTHSHORE HARBOR, NEW ORLEANS, LA

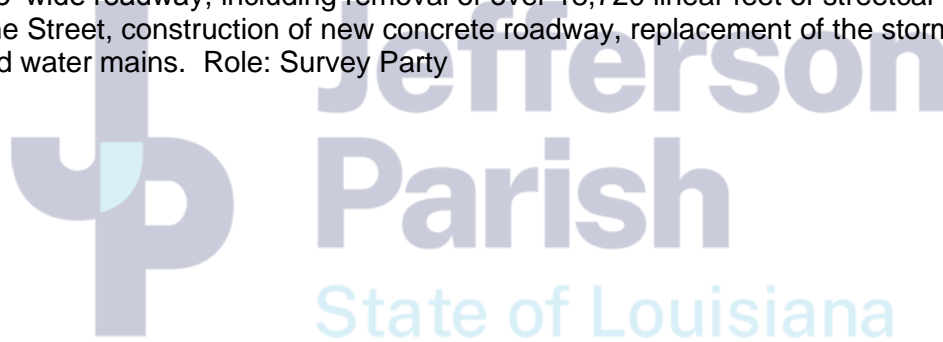
Hydrographic survey of approximately 150 acres in Southshore Harbor including portions of the navigation channel and Lake Pontchartrain. Included cross sections and profiles of approximately 10 acres of the north peninsula floodwall for a potential dredge spoil area.

AVONDALE SHIPYARD REDEVELOPMENT, AVONDALE, LA

Hydrographic surveys for 2 miles of the Mississippi River in front of the existing docks. USACE Baseline profile surveys and cross sections. Included batture surveys and topographic surveys of existing lay down areas.

MAGAZINE STREET TOPOGRAPHIC SURVEY, NEW ORLEANS, LA

LH&J provided topographic surveying services for the project that consisted of the reconstruction of 12,500 linear feet of 35' wide roadway, including removal of over 18,720 linear feet of streetcar tracks that are buried under Magazine Street, construction of new concrete roadway, replacement of the storm drainage system, sewer lines and water mains. Role: Survey Party



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Christopher G. Klimm, E.I., Survey Party Chief

Project Assignment:

Survey Party Chief

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

2 Years

Education: Degree(s)/Year Specialization:

University of New Orleans / B.S. / 2019 / Civil Engineering

Active registration: Year first registered/discipline:

2020 / Civil / LA License / EI.0034562

Other experience and qualifications relevant to the proposed Project:

Klimm is a civil engineer intern who has been with LH&J for two years. He has worked on various civil and structural engineering projects and has experience as a dock inspection team member and structural designer.

DRAINAGE IMPROVEMENTS N. SIBLEY AT WEST NAPOLEON INSPECTION, METAIRIE, LA

Resident Inspector for portions of the construction of drainage improvements at N. Sibley St. Klimm was responsible for monitoring the work, verifying contractor quantities and preparation of daily reports summarizing daily construction activities.

PIPELINE LOCATION FOR SOIL BORINGS, HACKBERRY, LA

Survey Team Member for the location of existing utility lines in Calcasieu Lake in advance of the drilling of soil borings. Klimm was responsible for obtaining water surface level elevations in the locations of the proposed borings and operating a hydraulic piezometer to confirm the accuracy of the signs showing utility lines locations.

AVONDALE SHIPYARD REDEVELOPMENT, WESTWEGO, LA

Klimm was part of a Team that inspected a damaged dock in the Avondale Shipyard. Klimm developed schematics of the structural supports of the dock and documented signs of damage in the piles or beams. Klimm subsequently drafted plans of the dock specifying which piles or beams needed replacing.

TEC Professional Services Questionnaire

Christopher G. Klimm, E.I., Survey Party Chief
Project Assignment – Survey Party Chief

Resume

GEISENHEIMER CANAL IMPROVEMENTS, METAIRIE, LA

Klimm assisted with the plans and specifications for the construction of Geisenheimer Canal Improvements. This project takes place inside Metairie County Club and includes the installation of a new 12' x 8' reinforced concrete box culvert. Klimm was responsible for the design and drafting of structural details of drainage junction boxes where lateral pipes connected to the new box culvert.

UNITED BULK TERMINAL DOCK INSPECTIONS, DAVANT, LA

Klimm was part of a Team that inspected damaged docks and assisted in assembling the damage report. This project consisted of a substructure inspection by boat of a steel pile dock structure located on the Mississippi River. Included inspection report prepared in accordance with the ASCE MOP No. 130 – "Waterfront Facilities Inspection and Assessment".

HURRICANE IDA DAMAGE ASSESSMENTS, PORT OF NEW ORLEANS, LA

Klimm was part of LH&J damage assessment team working traveling to various PONO facilities, providing information for the damage assessment reports. Worked on quantity take-offs and cost estimates. Assisted in preparation of the forms required for the assessments.

NASA MICHOD ASSEMBLY FACILITY, WEST BARGE DOCK INSPECTION, NEW ORLEANS, LA

Klimm was part of a Team that performed a substructure inspection of the West Barge Dock. He also assisted with load capacity calculations, repair sketches and material take-offs.

LOUMOR OUTFALL DITCH IMPROVEMENTS, METAIRIE, LA

Klimm assisted with the plans and specifications for the construction of Loumor Ditch Drainage Improvements. This project takes place inside Metairie County Club and includes the installation of a new 78" x 122" reinforced concrete drainage line which will start at Geisenheimer canal and end at Loumor ditch. Specifically, Klimm drafted the structural details for the new drainage junction boxes.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Cooper G. Ashworth, E.I., Survey Party Chief

Project Assignment:

Survey Party Chief

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

1 Year

Education: Degree(s)/Year Specialization:

Louisiana State University/B.S./2021/Civil Engineering

FAA Certified Remote Pilot License/2021

Active registration: Year first registered/discipline:

2021 / Civil / LA License / EI.0034948

Other experience and qualifications relevant to the proposed Project:

Ashworth is a civil engineer intern with two years experience. He has worked on various civil and structural engineering projects and has experience as a dock inspection team member and structural designer. He is an FAA Licensed Remote Pilot and has experience in surveying with Drones and Total Stations.

ST. JAMES SOLAR, VACHERIE LA, ST. JACQUES SOLAR, VACHERIE LA, AND SUNLIGHT ROAD SOLAR, FRANKLINTON, LA

LH&J was responsible for conducting topographic and boundary surveys for 4,500 acre solar farm facility in Vacherie and Franklinton, LA. The projects consisted of surveying both through traditional surveying and by utilizing Lidar scanning technology. The project fee was over \$250,000.00.

Determined site boundaries, provided contours and, collected georeferenced aerial imagery to provide a construction progress exhibit to the client, collected georeferenced aerial imagery to assist in the development of servitudes and parcels of land.

RENE INDUSTRIES SAND PIT, DARROW, LA

LH&J provided land surveying in conjunction with the permitting of levee crossings and a sand pit on the batture. The project was permitted through CPRA, PLD and LADNR through the use of a Joint Permit Application.

FRANCE ROAD YARD SURVEY, NEW ORLEANS, LA

Approximately 20 acre survey for the NOPBRR for the expansion of a railyard. Included topographic survey, hydrographic surveying of the industrial canal, aerial imagery and survey baseline control.

ORPHEUM AVENUE, NEW ORLEANS, LA

Topographic Survey Drafting, Drone Surveying, Photogrammetry

XPLORE CREDIT UNION, METAIRIE, LA

Boundary Survey Drafting

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. Please attach additional pages if necessary.

PROJECT NO. 1

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
Completion Date (Actual or estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

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. 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.

INTRODUCTION

Linfield, Hunter & Junius, Inc. (LH&J) is pleased to submit its proposal for the **Jefferson Parish Routine Engineering Services for Water Projects**. LH&J and previous firms have been providing quality engineering and architectural services for over 55 years and to Jefferson Parish since 1993. As the design engineering consultant for a number of previous water projects, LH&J is well postured to provide Jefferson Parish with a team of highly experienced and extremely capable engineers, land surveyors, and other design professionals who are intimately familiar with the critical design and construction considerations that are unique to this very important project. Our past experience in Jefferson Parish gives us the knowledge and understanding of the needs for this project, in particular water design. This along with our extensive experience in civil engineering design puts LH&J in the unique position of being able to dive straight into the project without a learning curve. LH&J will provide all in-house expertise and personnel for water engineering, land surveying and traffic engineering (if needed).

Should an individual project require specialty subconsultants such as mechanical, electrical, geotechnical, traffic, or land surveying, etc. we will supply appropriate subconsultants in accordance with the Jefferson Parish Code of Ordinance.

TEC Professional Services Questionnaire

We offer a very compact team of local professionals with specialized experience specific to the scope of work required by this solicitation. With all of the work being performed at the offices of LH&J and our subconsultant locally, and with our past experience working together on similar projects, we believe that there will be seamless coordination and interaction between team members. Furthermore, LH&J's in-house land surveyors will be prioritized to this project to ensure that field survey data is rapidly obtained and furnished to our design team. Also, any requirements to obtain supplemental data as the project progresses will be quickly addressed to avoid delays.

Major continuing repeat public clients include:

- ✓ *Jefferson Parish since 1991 (31 years)*
- ✓ *The Port of New Orleans since 1971 (51 years)*
- ✓ *U.S. Army Corps of Engineers since 1973 (49 years)*
- ✓ *Plaquemines Parish Government since 1973 (49 years)*
- ✓ *City of New Orleans since 1974 (48 years)*
- ✓ *U.S. Navy, Southern Division since 1975 (47 years)*
- ✓ *Sewerage & Water Board of New Orleans since 1979 (43 years)*
- ✓ *CVS/Pharmacy since 2004 (18 years)*

A. EVALUATION CRITERIA

A.1 Professional Training and Experience

Our Team is well qualified to provide the services required for this project. We anticipate that the following services will be required and we have the complete team to provide all these services.

Team Makeup

We anticipate the following projects

- ✓ Water Engineering – LH&J will perform all water engineering work on this project.
- ✓ Land Surveying – LH&J will perform all land surveys on this project.
- ✓ Traffic Engineering– Traffic Engineering (if necessary) LH&J will provide all traffic engineering services, if necessary, for this project.

Water Engineering

LH&J is a premier water expert in the metropolitan New Orleans area.

A summary of Linfield, Hunter & Junius, Inc.'s professional training and experience in the areas of water includes:

- ✓ Professional staff with well over 150 cumulative years of experience in water projects (see Item K).
- ✓ Firm background of 30 years of major water experience.
- ✓ A proven track record of completed water projects from feasibility studies following through to completed construction.
- ✓ Recent completion of successful water projects which are similar to the scope of work of your current project.
- ✓ A working knowledge of state-of-the-art computerized methods and procedures for studies and design.

TEC Professional Services Questionnaire

The firm has provided engineering services for Jefferson Parish, the City of New Orleans, Louisiana Department of Transportation and Development, Sewerage and Water Board of New Orleans, St. Charles Parish, U.S. Corps of Engineers, Port of New Orleans, U. S. Navy, Entergy Corporation and the Rouse Corporation and for numerous other clients since the mid 1970's. In the last 10 years the firm has been responsible for the design and contract administration of over \$65,000,000 of water facilities projects.

Linfield, Hunter & Junius, Inc. has designed hundreds of water projects for various public agencies and private entities. A partial list includes the following small and large projects:

- 43" and 48" Waterline Relocation South Claiborne Avenue
- Happy Jack Waterline Replacement
- Hoey Canal Improvements - Relocation of 24" Waterline at Hoey's Cut
- 12" Waterline Avenue G to Woodland Hwy.
- 12" Waterline Theodore Mannich to White Ditch
- Waterlines: Coast Guard Rd, Venice Theatre, Stumpf Lane, Blanchard Lane, Clem Lane
- Utility Relocations Hwy. 23 Widening City Price Happy Jack
- Empire Doullut Canal Waterline
- Dillard University Site Improvements, Water Distribution System Assessment
- Pontchartrain Point Subdivision
- Water System Consultation, Freeport McMoran Facilities, Port Sulphur, Louisiana
- Woldenberg Village
- City of New Orleans Streets (Magazine and Prytania)
- Southeast Louisiana Drainage Project, Oleander & Dublin Streets
- City of New Orleans - Major Street Bond Program - Alcee Fortier/Pressburg Streets
- KMI Port Facility
- 12" Waterline Replacement, Phoenix to Davant
- Pendleton Memorial Methodist Hospital, Phase 1A and 1B
- Oakwood - J.C. Penney Site Expansion
- Fire District No. 5 Waterline
- Veneston Wood Chip Facility
- Lake Hermitage Water Service Study
- Earhart Corridor
- Waterline Relocation, Deer Range to West Pointe a la Hache
- La Plata Port
- 12" Waterline Relocation at Courthouse, Plaquemines Parish
- Salt Water Mitigation - 16" Water Transmission Line, Port Sulphur
- Grand Bayou Waterline
- 8" Waterline from Hwy 11 to Hwy 23
- Utility Relocation at Happy Jack Marina
- Tchoupitoulas Corridor Religious and Felicity Streets
- Replace Buras Waterlines
- La Reussite Waterline Relocation
- Old Railroad Waterline - Empire
- Epsilon Street Waterline
- Waterlines - West Pointe a la Hache
- Waterline Bypass of Freshwater Diversion, West Pointe a la Hache

TEC Professional Services Questionnaire

- Oakwood Site Expansions - Servitudes, Roadway, Utility Relocations
- Waterline Replacement - East Pointe a la Hache
- 12" Waterline - Empire to Buras
- Lower Plaquemines Waterlines - Buras to Fort Jackson
- Shemberdy Industrial Park
- Renovate Men and Women's Head, Building 8, Naval Support Activity
- Head Expansion, 603-2C, Naval Support Activity
- Metairie Road Bridge
- Reach "A" Utility Relocations Waterline Relocation - Duvic-Venice
- South Kenner Roadway Improvements
- 8 Minor Streets, New Orleans
- E Pointe a la Hache Saltwater Mitigation
- Lapalco Village Shopping Center, Phase I and II
- Wenzel Subdivision
- Port Sulphur 16" Diameter Waterline
- Belle Chasse Utility Planning
- Beau Pre Drive Waterline Extension
- Carrollton Industrial Park, Phases I and II
- Extension to Waterline, Woodland Highway
- Metairie Road Property Development
- Utility Tunnel Investigation - Loyola Comm Complex
- Miscellaneous Waterlines, Houston, TX
- Waterline Addition, Boothville and Venice, LA
- Boat Harbor Waterlines, Venice, LA
- Belle Chasse Subdivision
- Ironton - Deer Range Waterline
- Homeplace - Happy Jack Waterline Investigation for Four Lane Highway
- Davis Plantation Park Shopping Center
- Scarsdale Waterline Extension
- Dalcour Water Intake Repairs
- Cazalard Roadway
- S. Salcedo Street Design
- Norco Highway
- Davis Plantation Subdivision, Phases II and III
- Lutchter Highway
- Barriere Road Waterline
- Empire Intake Piping

The above list includes many water projects that are similar in scope to the subject project. LH&J's vast experience in the design of water systems includes some major projects that are listed in Item L of this document. Details of some of these large projects are provided in the following section:

TEC Professional Services Questionnaire

A.1.1 Salt Water Mitigation Project, Plaquemines Parish, Louisiana

Plaquemines Parish is a 100-mile long parish (county) that straddles the Mississippi River from New Orleans to the Gulf of Mexico. Its water supply comes from the Mississippi River. In the late 1970's, the USCOE and the State of Louisiana initiated studies regarding deepening the Mississippi River channel to improve deep water access for the Ports along the river. Linfield, Hunter & Junius, Inc. (LH&J), who has been the water and sewerage engineering firm for the Plaquemines Parish Government (PPG) since the early 1970's, was retained to serve as technical advisor on the effects on the parish water supply due to the channel deepening. Deepening the channel increases the occurrence of salt water intrusion in the river during low river stages, which has the potential of rendering the river water along the lower reaches of the Mississippi unusable, particularly at the water treatment plants at Boothville, East Pointe-a-La-Hache (EPALH), and West Pointe-a-La-Hache (WPALH).

LH&J developed what became known as the Plaquemines Parish Plan for mitigating the effects upon the Parish water system of salt water intrusion due to the channel deepening project. On the West Bank of the Parish, this plan entailed the construction of increased capacity at the Belle Chasse Water Plant which is far enough up river so as to be unaffected by salt water intrusion. The water produced at this plant is then delivered to the downriver regions of the Parish through transmission and distribution system, which was improved and completed by the addition of booster pumping stations and transmission lines. On the East bank, the Plaquemines Plan entailed the utilization of an existing raw water reservoir in conjunction with the construction of raw water transmission lines and pumps to deliver raw water to the EPALH plant during salt water events.

This project included all studies, planning, hydraulic modeling, plans, specifications, and resident inspection for over 88,000 lf of large diameter water transmission line, four booster pump stations, SCADA system, and a 2.5 MGD water plant expansion. Nine construction contracts were awarded and successfully completed.

The water plant expansion included a 160' x 30' x 13' deep reinforced concrete reservoir, new raw water pumps in the existing raw water pump house, a new upflow clarifier, new sludge discharge line, and construction of a new filter building consisting of 4 dual media rapid sand filters. The upflow clarifier consists of 60' diameter pile-supported reinforced concrete tank with EIMCO mechanism. The filter building is a two-story reinforced concrete building with four 23' x 14' filters with EIMCO underdrains and filter controls. The concrete is designed pursuant to ACI 350 for hydraulic concrete structures. Three upflow clarifier and filter control and underdrain systems were specified to prevent "packaging" of vendor bids. Design is such that operations must be maintained in the existing plant. Project required close coordination with plant operators particularly for plant shut downs required for construction.

LH&J served as PPG's advisor in drafting the agreement between the USCOE and the State of Louisiana with PPG for construction of the Plaquemines Plan. All improvements were paid for 75% by the USCOE and 25% by the State of Louisiana. LH&J designed all system improvements, obtained all approvals from the USCOE and the State, coordinated budgets for the project, and provided complete contract administration and resident inspection services.

TEC Professional Services Questionnaire

A.1.2 Water Transmission Line Deer Range to West Pointe-a-la-Hache, Plaquemines Parish, LA

As part of the Salt Water Mitigation Project in Plaquemines Parish, LA, a water transmission line of 26,000 linear feet of 20" PVC C905 was installed. This line linked the Belle Chasse Water System for the first time to the Port Sulphur and Boothville water systems.

As a result of this project, previously unserved areas of the Parish were made usable, thus enhancing property values and opportunities for developers. Under the scope of this project the Plaquemines Parish Government (PPG) also replaced an existing 8" line that had to be relocated due to highway widening, and was constructed prior to the widening of the highway.

The required R.O.W. was computed and staked to ensure non-interference with ongoing highway work. LH&J coordinated the required right of way acquisition with Plaquemines Parish and with the State Highway Department. The project also included a 200' long encased highway crossing, which was installed by directional drilling to State Highway Department specifications.

A.1.3 Water Transmission Line Oakville to Myrtle Grove, Plaquemines Parish, Louisiana

As another component of the Salt Water Mitigation Project in Plaquemines Parish, LA, 49,000 linear feet of 20" PVC C905 water transmission line was installed from Oakville to Myrtle Grove, Louisiana. The new line paralleled the old 8" and 10" lines in this reach.

This project provided increased water service and fire protection to the rapidly-growing Jesuit Bend area of the parish. One complication arising in this project was due to the parish's inability to acquire right of way from the private owners of the property. Therefore, LH&J obtained a permit for LADOTD to place the waterline in their highway right of way.

A.1.4 Utility Relocations for Highway Widening, Port Sulphur, LA

Population growth in Plaquemines Parish has required the widening of Highway 23, which entails relocation of a 1-mile section of 20" waterline along the new roadway. Plaquemines Parish and the State of Louisiana shared the cost of the project and Plaquemines Parish selected LH&J to design the relocation plan. LH&J designed these relocations to minimize their impact to residents and to cause minimal disruption in the water distribution system. Careful construction phasing was required to ensure that shutdowns in the system could be accommodated without disrupting service. 400 linear feet of directional drilling of 20" waterline was designed as a part of this project.

A.1.5 30" & 24" Waterline Orpheum Avenue Pumping Station No. 6 to Hoey's Cut

As part of the construction of the widening of the 17th St. Canal from Pumping Station No. 6 to Hoey's Cut, relocation and reconstruction of sections of a Jefferson Parish 30" & 24" water transmission line were required. Due to the critical nature of this line, the work was carefully coordinated with the Jefferson Parish Department of Public Works. The 30" line was reconstructed from Pumping Station No.6 to Metairie Road. A new 24" line was installed at Metairie Road in conjunction with the replacement of the Metairie Road Bridge. A new 24" crossing was also installed at the Hoey's Cut.

TEC Professional Services Questionnaire

The Hoey's Cut and Metairie Road Relocations are complete. This project allowed LH&J to learn Jefferson Parish specification requirements; and inspection, sterilization and acceptance procedures for waterline construction.

A.1.6 12" Waterline, Bertrandville to White Ditch, East Bank of Plaquemines Parish, LA

In the 1950s, a water distribution system consisting primarily of 6" lines was installed in this area along the east bank of the Mississippi River in Plaquemines Parish, Louisiana, providing potable water and fire protection. These 6" cast iron lines corroded and would periodically lead to "red water" problems in the system. These lines have been replaced with larger PVC lines to improve pressure and flow throughout the system. The system was analyzed using the KY Pipe program. The project included construction of a new 26,000 LF 12" PVC C900 waterline, transfer of services, hydrant installation, etc.

A.1.7 12" Waterline From Woodland Highway to Hebert Boulevard, Belle Chasse, LA

The Metropolitan Developmental Center, a state school for assisted learning located in Belle Chasse, experienced low pressure in its potable water system due to increased demand caused by population growth in Belle Chasse. In addition, fire flow tests conducted by the parish indicated fire flow for this area should be improved. Linfield, Hunter & Junius, Inc. was retained by Plaquemines Parish to investigate the problem and propose alternative solutions. Linfield, Hunter & Junius, Inc. analyzed the system using KY pipe Program, proposed several alternatives, including a looped 12" Waterline to connect to dead end lines previously installed by the parish. The 12" waterline providing a closed loop was the most cost effective alternative and was chosen by the Parish. Linfield, Hunter & Junius, Inc. provided design services and contract administration for construction of the project.

A.1.8 50", 36", 12" and 8" Waterlines for the Hollygrove Area Drainage Improvements

As part of the U.S. Army Corps of Engineers Southeast Louisiana Drainage Project (SELA), two large cast-in-place concrete box culverts were installed to improve drainage in the Hollygrove area. The construction of these culverts required the relocation design of two miles of the existing Sewerage and Water Board distribution system, in conjunction with sewerage and roadway reconstruction. Water system reconstruction required providing temporary service to residents during construction; installation of 10,000 LF of 8" & 12" new waterlines with meters and appurtenances, and replacement of 50" & 36" welded steel water transmission lines. The Sewerage and Water Board of New Orleans required that these steel waterlines be replaced with a minimum shutdown period since the major transmission lines supplied water to a large portion of the city. Linfield, Hunter & Junius, Inc. successfully designed the relocation of the 50" and 36" steel waterlines as well as 12" and 8" relocations for this SELA project.

A.1.9 Dillard University, New Orleans, LA

Dillard University was constructed in the 1930's along Gentilly Boulevard in New Orleans. In recent years a number of operating problems associated with the water, sewerage and drainage systems became apparent. Linfield, Hunter & Junius, Inc. was retained by Dillard University to assess their water, sewerage, and drainage systems and to provide budgets for improvements to be undertaken as part of a \$ 25M bond program. A budget of \$ 3M was set for these improvements. The following summarizes the findings for the water system.

TEC Professional Services Questionnaire

The Dillard University water system was constructed of 4" lines in the 1930's and improved in places to 6" lines in the 1960's. The University was experiencing low flows during times at peak use and fire flows were marginal. Linfield, Hunter & Junius, Inc. recommended installation of a 12" PVC loop. Upon completion of the loop, Dillard University reported improved flows and pressures throughout the campus.

A.1.10 Belle Chasse Water Treatment Plant Expansion

As part of the Salt Water Mitigation between the Plaquemines Parish Government and the United States Corps of Engineers, the existing Belle Chasse Water Treatment Plant was expanded by 2.5 million gallons per day (MGD) to provide water to the south end of Plaquemines Parish during severe low water events. Linfield, Hunter & Junius, Inc. provided complete engineering services for this project.

The first step of the process included an evaluation of existing and alternative treatment processes for conformance with existing and anticipated water quality regulations. Since the mid 1980's an increased emphasis has been placed upon these regulations. As a result, formulation of treatment strategies to meet anticipated requirements was key to the expansion. A report was issued outlining key issues and recommended construction. Elements of the recommended expansion included expansion of the existing raw water pumping system, new electrical distribution panel for the facility, construction of a new upflow clarifier and filter building with 4-23'x14' dual media filters with stainless steel underdrains, construction of a new 1.5 million gallon concrete reservoir for clear water storage and additional disinfectant contact time, construction of a new service pump station with new electrical controls and variable frequency drives, conversion of the existing service pump station to a transfer pump station, and installation of a SCADA system. This expansion has been completed and the facility is providing treated water which meets all current and anticipated drinking water standards.

Land Surveying

Land surveying will be performed by the team of Linfield, Hunter & Junius, Inc.

Linfield, Hunter & Junius, Inc. (LH&J) has provided professional land surveying services to public and private clients throughout Southeastern Louisiana for over 15 years.

Registered Surveyors

Nathan J. Junius, P.E., P.L.S.

BSCE, MSCE

20 years experience

William J. Muller, P.L.S.

30 + years experience

Nathan J. Junius, P.E., P.L.S. is a licensed surveyor and heads up Linfield, Hunter & Junius, Inc. surveying. In addition to extensive experience as a civil engineer, Mr. Junius has extensive experience in all aspects of land surveying.

Examination of the attached resumes project descriptions in this Section demonstrates that the firm has the professional training and experience to provide land surveying services. Additionally, LH&J has the depth of personnel to add up to two (2) additional full-time survey crews when needed.

TEC Professional Services Questionnaire

Traffic Engineering

Traffic engineering will be performed by the team of Linfield, Hunter & Junius, Inc.

The traffic engineering team of **Linfield, Hunter & Junius, Inc. (LH&J)** has provided traffic engineering services for numerous projects including CVS/Pharmacy site developments to new signalization and traffic control plans.

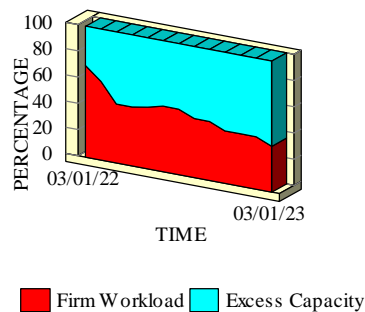
A.2 Capacity for Timely Completion of Newly Assigned Work

The designs of several large projects have been recently completed or are near completion. Therefore, we have a large engineering team available. The design of needed improvements for this project can be easily absorbed by the firm, as we have substantial reserve production capacity to meet any reasonable project scheduling.

Our current and projected firm capacity shown below indicates a 40% capacity shortfall by April 2022. The 15% capacity anticipated for water projects would be very welcome and needed to maintain our current staff levels.

Linfield, Hunter & Junius, Inc.

Firm Capacity



A.3 Location of Principal Office Where Work Will Be Performed

Linfield, Hunter & Junius, Inc. is located in Jefferson Parish at **3608 18th Street, Metairie, LA 70002**. We are centrally located in the parish, and all work will be performed from this office.



TEC Professional Services Questionnaire

A.4 Status of Current Litigation with Jefferson Parish

Linfield, Hunter & Junius, Inc. has no previous or on-going litigation with Jefferson Parish.

A.5 Prior Successful Completion of Projects of the Type and Nature of Routine Engineering Services, as defined, for Which Firm Has Provided Verifiable References

Linfield, Hunter & Junius, Inc. has successfully completed many projects of the type and nature required by this solicitation. Some of these projects are described in Item B.1.1 – B-1.9 above. Additionally, examination of Resumes in Item K and Project Descriptions in Item L describe personnel experience and firm experience. Verifiable references are listed in Item L.

A.6 Size of Firm

Linfield, Hunter & Junius, Inc. employs thirty-seven (37) individuals, as shown in Item E above. The size of our firm is ideal for projects such as the proposed project because:

- ✓ The firm is large enough that it can absorb projects of the size of the proposed project and not become overburdened by them.
- ✓ The firm is small enough to be nimble and responsive to the client.
- ✓ The management structure is not multi-layered, which facilitates resolution of issues that could otherwise slow down a project.

A.7 Past Performance by Person or Firm on Parish Contracts

The firm received its first Jefferson Parish contract in 1991, and to date has received the following engineering projects:

- FEMA Submerged Road Program District 5 Asphalt
- Woodvine and Cuddihy Drive Drainage Improvements
- 17th Street Drainage Canal, Hoey's Cut to Airline Drive
- Geisenheimer Drainage Canal Repairs
- Hoey's Cut Covered Drainage Canal Improvements
- Dakin Street Corridor
- Traffic Engineering on As-Needed Basis
- East & West Livingston Place Subsurface Drainage Improvements
- Labarre Business Park Drainage Improvements
- Improvements to Russell Street
- Woodlawn Drainage Improvements
- Hoey's PAC
- Hoey's Bypass Canal
- Hoey's Phase III Improvements
- Geisenheimer Drainage Basin Improvements

B. MINIMUM REQUIREMENTS FOR QUALIFICATION

B.1 The person or firm submitting a Statement of Qualifications shall have one (1) principal who is a professional engineer who shall be registered as such in Louisiana.

Nathan J. Junius, P.E., P.L.S. has over 20 years of design experience in Civil Engineering projects including major water design, drainage design, culvert design, roadway design, traffic design and project management.

B.2 The person or firm submitting a Statement of Qualifications shall have a professional in charge of the project who is a professional engineer who shall be registered as such in Louisiana with a minimum of five (5) years of experience in the disciplines involved.

Firm principal Nathan J. Junius, P.E. is a professional civil engineer registered in the State of Louisiana with over 20 years of experience in Civil Engineering projects including waterline design, urban streets, major roadway design, utility and drainage design, culvert design, traffic design and project management.

Robert E. Nockton, P.E. has over 25 years of design experience in Civil Engineering projects including waterline design, urban streets, roadway design, major drainage design, culvert design, sewerage and sewage lift station design, water and wastewater treatment and project management.

B.3 The person or firm submitting a Statement of Qualifications shall have one (1) employee who is a professional engineer registered as such in Louisiana in the field or fields of expertise required for the project. A subcontractor may meet this requirement only if the advertised Project involves more than one discipline.

Linfield, Hunter & Junius, Inc. has twelve (12) full-time professional engineers registered in the State of Louisiana with over 150 years combined experience in waterline design. LH&J will make available as many as five (5) professional engineers for this project.

Nathan J. Junius, P.E., P.L.S. is a Professional Land Surveyor registered in Louisiana with more than twenty (20) years of experience in conducting topographic surveys.

William J. Muller, P.L.S. is a Professional Land Surveyor registered in Louisiana with more than thirty (30) years of experience in conducting topographic surveys.

We have had repeat assignments from all of our public sector clients demonstrating our capabilities to perform at a high level, regardless of the project scope. To the best of our knowledge, all public projects have been completed within the allotted design time and to the clients' satisfaction. Fast turnaround time is an excellent indication of our ability to respond to the needs of our clients; quality is attested to by the number of repeat public clients we have. Throughout Linfield, Hunter & Junius, Inc.'s history we have maintained an excellent working relationship with each public client. This is a significant accomplishment of which we are very proud.

Closing Statement

We are extremely interested in this solicitation.

Linfield, Hunter & Junius, Inc. has extensive experience in the design of water improvement projects in Jefferson Parish and throughout the New Orleans Metropolitan Area.

Linfield, Hunter & Junius, Inc. has the capacity to easily absorb this project assignment.

Please give us your serious consideration.



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

Signature: 

Printed Name: Nathan J. Junius, P.E., P.L.S.

Title: President

Date: March 31, 2022

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name: Public Address:
Linfield, Hunter & Junius, Inc. 3608 18th Street, Suite 200
Metairie, LA 70002

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0000510	ACTIVE	05/23/1979	03/31/2023	Mr. Nathan John Junius # PE.0031843 - Active

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name: Public Address:
Linfield, Hunter & Junius, Inc. 3608 18th Street, Suite 200
Metairie, LA 70002

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
VF.0000532	ACTIVE	06/15/2004	09/30/2022	Mr. Nathan John Junius # PLS.0004958 - Active

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