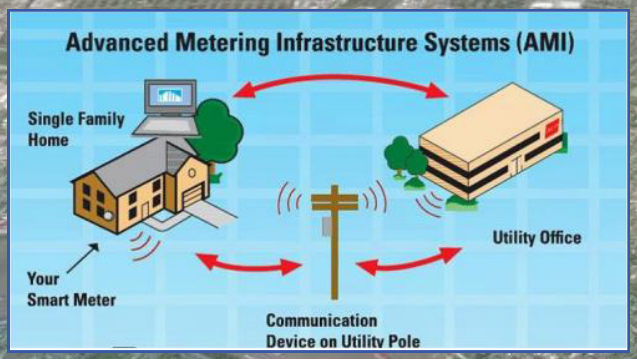


State of Louisiana
Jefferson Parish

STATEMENT OF QUALIFICATIONS

PROFESSIONAL ENGINEERING AND SUPPLEMENTAL SERVICES
ADVANCED METERING INFRASTRUCTURE
(AMI) FOR WATER SERVICES
SOQ 21-002
RESOLUTION NUMBER: 137055

MARCH 16, 2021

LINFIELD, HUNTER & JUNIUS, INC.

21M-047

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.
Sergio J. Girau, P.E.
Anthony F. Goodgion, P.E.
Benjamin N. Chadwick, AIA
Charles T. Knight, P.E.
Robert E. Nockton, P.E.
Mark K. Annino
Casey M. Genovese, P.E.
Wesley R. Eustis, P.E., P.L.S.
Daniel F. Bobeck, P.E.
Jonathan C. Catanzano, P.E.
Daniel A. Flores, P.E.
Timothy J. Roth, P.E.
Luis F. Sosa, P.E.
Richard A. Van Wootten, P.E.

March 16, 2021

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

RE: Statement of Qualifications
Professional Engineering & Supplemental Services for
Advanced Metering Infrastructure (AMI) for Water Service
Resolution No. 137055
Our File #: 21M-047

Dear Ms. Lopez:

Linfield, Hunter & Junius, Inc. (LH&J) is pleased to submit its Statement of Qualifications for Professional Engineering Services for Advanced Metering Infrastructure (AMI) for Water Service.

LH&J is well qualified to provide the services required for this project. Our Team is made up of over 20 professionals and a support staff of over 30 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., Vice 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.
Vice President

NJJ/dlm

Enclosures

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Professional Engineering and Supplemental Services for
Advanced Metering Infrastructure (AMI) for Water Services
Resolution No. 137055

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., Vice 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., Vice 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:

5	Administrative	__	Estimators	__	Specification Writers
1	Architects (Licensed)	__	Geologists	4	Structural Engineers
__	Chemical Engineers	__	Geotechnical Engineers	__	Graduate Engineers
10	Civil Engineers	__	Interior Designers	1	Project Managers
6	Construction Inspectors	__	Landscape Architects	__	Clerical
__	Ecologists	3	Land Surveyor	__	Grant/Funding Specialist
__	Electrical Engineers	__	Mechanical Engineers	__	Sanitary Engineers
5	Engineer Intern	__	Environmental Engineers	2	CADD Drafters
2	Professional Land Surveyors	1	Architect Intern	40	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.

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

Professional Engineering & Supplemental Services for Advanced Metering Infrastructure (AMI) for Water Services
Resolution No. 137055

Prime Consultant

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

Nathan J. Junius, P.E., P.L.S.
Principal in Charge

Robert E. Nockton, P.E.
Lead Civil Engineer
Professional In Charge of Project

Civil Engineering

- Sergio J. Girau, P.E. — Civil Engineer
- Luis F. Sosa, P.E. — Civil Engineer
- Mark K. Annino, BSCE — Civil Engineer
- Wesley R. Eustis, P.E., P.L.S. — Civil Engineer
- Casey M. Genovese, P.E. — Civil Engineer

Surveying

- Wesley R. Eustis, P.E., P.L.S. — Land Surveyor
- Daniel D. Bindewald — Survey Party Chief
- William J. Muller, P.L.S. — Surveyor
- Paul H. Morales, IV — Survey Party Chief

Construction Management

- Timothy J. Roth, P.E. — Lead Construction Manager

Resident Inspection

- Nicholas P. Talbot — Resident Inspector

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:

Robert E. Nockton, P.E., Vice President

Project Assignment:

Professional In Charge of Project

Name of Firm with which associated:

LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

26 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 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.

- **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.
- **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

Robert E. Nockton, P.E., Vice President **Resume**
Project Assignment –Professional In Charge of Project

- **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.
- **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.
- **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.**

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Nathan J. Junius, P.E., P.L.S., PTOE, Vice President
Project Assignment:
Principal in Charge
Name of Firm with which associated:
LINFIELD, HUNTER & JUNIUS, INC.
Years' experience with this Firm:
19 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 19 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.

ENGINEERING PROJECTS

- **20-Inch Waterline Replacement, Oakville to La Reussite, Plaquemines Parish, LA.** Junius 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.

TEC Professional Services Questionnaire

Nathan J. Junius, P.E., P.L.S., PTOE, Vice President **Resume**
Project Assignment - Principal in Charge

- **Lake Hermitage Waterline, Plaquemines Parish, LA.** Junius 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.
- **Russell Drive Waterline, Belle Chasse, LA.** Junius 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.** Junius 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.** Junius 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.
- **Hoey's Canal Bypass – Phase II, Jefferson Parish, LA.** Junius 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.
- **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.**

LAND SURVEYING

Junius has been responsible for survey operations and daily direction of the survey crew. He was also responsible for the QA/QC of multibeam deliverables. Junius has provided virtual reference station (VRS)/ real time kinematic (RTK) surveys and 3rd Order Levels for Control as well as hydrographic multibeam surveys. Deliverables included an EM Files, ASCII Files, XYZ Files and a

detailed survey report.

Junius is proficient with Leica Dual Frequency RTK Rovers, Leica DNA03 Digital Auto Level, Leica GPS Base Station, G-882 Magnetomter 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.

Junius has provided first order leveling for hundreds of miles of levee construction including many floodwalls and pump stations. ROW maps, levee profiles and cross sections were also provided before and after construction to confirm as-built conditions.

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.

RELEVANT EXPERIENCE:

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**.

17TH STREET CANAL WIDENING BETWEEN HOEY'S CANAL AND AIRLINE DRIVE, JEFFERSON PARISH / NEW ORLEANS, LA
Land Surveying Team Leader for this drainage project. Topographic surveying for the widening and concrete lining of approximately 700 feet of the 17th Street Canal between the Hoey's Canal and Airline Drive and the reconstruction of a portion of Cecil Street including **subsurface drainage**.

EAST AND WEST LIVINGSTON PLACE DRIANAGE IMPROVEMENTS, METAIRIE, LA
Land Surveying Team Leader for this road and drainage project. Topographic surveying for the installation of new subsurface drainage along two residential streets in Old Metairie and the reconstruction of the roadway.

DRAINAGE IMPROVEMENTS TO CUDDIHY DRIVE AND WOODVINE AVENUE, METAIRIE, LA
Land Surveying Team Leader for this road and drainage project. Topographic surveying for the installation of new subsurface drainage and utility relocation along two residential streets in Old Metairie and the reconstruction of the roadway.

TEC Professional Services Questionnaire

Nathan J. Junius, P.E., P.L.S., PTOE, Vice President **Resume**
Project Assignment - Principal in Charge

MAGAZINE STREET ROADWAY IMPROVEMENTS, NEW ORLEANS, LA
Land Surveying Team Leader for this road and drainage project. Topographic surveying for the removal of over 18,720 linear feet of streetcar tracks that are buried under Magazine Street. The total project includes 12,500 linear feet of 35' wide concrete roadway construction.

CLUB DELUXE ROADWAY WIDENING PROJECT, HAMMOND, LA
Land Surveying Team Leader for this road and drainage project. Topographic surveying and boundary surveying for the roadway which will be two through lanes with a center continuous turn lane and an eight-foot shoulder on each side of the roadway approximately 1.50 miles of the roadway beginning at US 51 will be **curb and gutter with subsurface storm drainage.**

ELEVATION OF TIDEWATER ROAD PHASE I
Land Surveyor for this project. Topographic surveying for approximately 6,000 linear feet of roadway from the Jump to Coast Guard Road.

ELEVATION OF TIDEWATER ROAD PHASE II
Land Surveyor for this project. Land surveying for 11,000 linear feet of roadway from Coast Guard Road to the entrance of the TARGA Refinery.

RECONSTUCTION OF PRYTANIA STREET
Land Surveyor for this road and drainage project. Topographic surveying for over 4,000 linear feet of 35' wide concrete roadway.

Junius is a member of the New Orleans Chapter American Society of Civil Engineers, American Public Works Association, Louisiana Engineering Society, Society of American Military Engineers, Louisiana Society of Land Surveyors and American Council of Engineering Companies of Louisiana/New Orleans Chapter. He has served as board member and president of several of these organizations.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Sergio J. Girau, P.E., Vice President

Project Assignment:

Civil Engineer

Name of Firm with which associated:

LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

31 Years

Education: Degree(s)/Year Specialization:

Louisiana State University - B.S. / 1984 / Civil Engineering

Active registration: Year first registered/discipline:

1994 / Civil / LA License No. PE.0025617

Other experience and qualifications relevant to the proposed Project:

Girau specializes in the design and construction administration of civil projects such as urban streets, highways, bridges, site developments, subdivisions, parking facilities, storm water management systems, drainage canals and drainage structures.

Girau has varied project management experience for a wide range of public clients including federal, state and local governments; and private clients, including commercial, institutional and industrial. Girau has successfully managed government projects for Jefferson Parish, Department of Public Works, City of New Orleans Department of Public Works, LA-DOTD, Port of New Orleans, Sewerage & Water Board of New Orleans, Orleans Levee Board, U.S. Army Corps of Engineers, and the U.S. Navy. As project manager, Girau has overseen the successful preparation of studies, reports, construction plans and specifications of a wide variety of projects.

PROJECT MANAGER OR LEAD CIVIL ENGINEER

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.

TEC Professional Services Questionnaire

Sergio J. Girau, P.E., Vice President **Resume**
Project Assignment – Civil Engineer

LOUISVILLE STREET / CATINA STREET RECONSTRUCTION, NEW ORLEANS, LA
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.

DILLARD UNIVERSITY IMPROVEMENTS, NEW ORLEANS, LA
LH&J was engaged by Dillard University to design multiple infrastructure projects including improvement of the campus-wide drainage facilities, **campus loop water system**, roadways, parks, pervious pavements, bioswales, parking lots, tennis courts and new sanitary sewerage with lift station for new Professional Schools and Student Union Buildings.

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.

TCHOUPITOULAS CORRIDOR – RECONSTRUCTION OF RELIGIOUS STREET WITH FELICITY STREET, NEW ORLEANS, LA
This project entailed the reconstruction of 8,500 feet of roadway including replacement of the **water** and sanitary sewer lines and utility relocation.

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.

PRINCIPAL IN CHARGE

PARISHWIDE WATER AND SEWERAGE PLANNING, PLAQUEMINES PARISH, LA
Performed analysis of existing sewage collection facilities Parish-wide and developed a master sewerage plan to provide public sewerage to presently un-sewered areas and to provide sewerage for future Parish-wide growth.

RUSSELL DRIVE WATERLINE, BELLE CHASSE, LA

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.

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.

TEC Professional Services Questionnaire

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

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

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.

DILLARD UNIVERSITY INFRASTRUCTURE IMPROVEMENTS, NEW ORLEANS, LA

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 **water** to presently un-watered 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

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

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.

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.**

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

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

Project Assignment:

Civil Engineer

Name of Firm with which associated:

LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

41 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.

TEC Professional Services Questionnaire

Luis F. Sosa, P.E., Civil Engineer **Resume**
Project Assignment – Civil Engineer

- **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:

Mark K. Annino, BSCE

Project Assignment:

Assistant Project Manager

Name of Firm with which associated:

LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

26 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.

LEAD CIVIL ENGINEER / PROJECT MANAGER

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.

TEC Professional Services Questionnaire

Mark K. Annino, BSCE **Resume**
Project Assignment – Assistant Project Manager

DILLARD UNIVERSITY IMPROVEMENTS, NEW ORLEANS, LA
Performed as Lead Civil Engineer for this project. LH&J was engaged by Dillard University to design multiple infrastructure projects including improvement of the campus-wide drainage facilities, **campus loop water system**, roadways, parks, pervious pavements, bioswales, parking lots, tennis courts and new sanitary sewerage with lift station for new Professional Schools and Student Union Buildings.

CIVIL ENGINEER

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.

DILLARD UNIVERSITY INFRASTRUCTURE IMPROVEMENTS, NEW ORLEANS, LA
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.

TEC Professional Services Questionnaire

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

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.

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.**

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Wesley R. Eustis, P.E., P.L.S.

Project Assignment:

Civil Engineer / Land Surveyor

Name of Firm with which associated:

LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

17 Years

Education: Degree(s)/Year Specialization:

Louisiana State University / B.S. / 2004 / Civil Engineering

Active registration: Year first registered/discipline:

2010 / Civil / LA License No. PE.0035537
2019 / Land Surveying / LA License No. PLS.0005225

Other experience and qualifications relevant to the proposed Project:

Eustis's engineering experience is primarily in civil sitework, utility relocation and roadway design. A number of these projects have required specialized experience in stormwater management, drainage calculations and incorporation of green infrastructure into the site design.

FEDERAL CITY MARINE FORCES RESERVE, NEW ORLEANS, LA
Project Manager and **Lead Civil Engineer** for this project. Linfield, Hunter & Junius, Inc. provided right-of-way surveying and civil site design and utility relocation for the MAR Forces Facility in Algiers, LA.

CITY-WIDE STREET, DRAINAGE and BEAUTIFICATION IMPROVEMENT PROGRAM (KENNER 2030 PLAN), KENNER, LA
Project Manager and **Lead Civil Engineer** for this project LH&J was recently selected as Program Manager of the project to ensure continuity throughout the design and construction of 13 different projects.

TEC Professional Services Questionnaire

Wesley R. Eustis, P.E. **Resume**
Project Assignment – Civil Engineer / Land Surveyor

PROGRAM MANAGEMENT OF KENNER 2030 CAPITAL IMPROVEMENTS PROJECT

Deputy Program Manager for this project. Linfield, Hunter & Junius, Inc. was selected by the City of Kenner from a very completive field to **manage** the Kenner 2030 Plan City-Wide Street, Drainage and Beautification Improvement Program. **The $35 Million Capital Improvement Project** is one of the largest ever undertaken by the City of Kenner and includes construction of **Roadways, Bridges, Pedestrian Paths, Bike Paths, and Landscaping. Government Standards complied: LADOTD, FHWA, AASHTO.**

CIVIL SITEWORK DESIGN WITH GREEN INFRASTRUCTURE

- Kia of Covington – Covington, LA
- Campus Federal Credit Union – New Orleans, LA
- CVS/Pharmacy, Burbank and Gardere – Baton Rouge, LA
- CarMax – Kenner, LA
- Site feasibility and design phases for numerous CVS/Pharmacy projects throughout the southeastern region of the United States.

DRAINAGE DESIGN AND STORMWATER MANAGEMENT

- MECO Facility – Mandeville, LA
- Kia of Covington – Covington, LA
- Elmer Candy Company – Pontchatoula, LA
- Laketown Development – Kenner, LA
- Woodspring Suites – Kenner, LA
- Lake Trail Pumping Station – Kenner, LA
- Meadowbrook Ditch Survey and Drainage Design – Mandeville, LA
- Modspace Yard Facility Development – St. Charles Parish, LA
- Numerous CVS/Pharmacy and Dollar General projects

ROAD DESIGN PROJECTS

- Left Turn Lane Addition – US 61 and LA 42 – Prairieville, LA
- Deceleration Lane – US 31W & KY 1008 – Franklin, KY
- Road Widening – Club Deluxe Road – Hammond, LA

UTILITY RELOCATIONS

- Superior Seafood – Sewer Relocation – St. Charles Avenue at Napoleon Avenue, New Orleans, LA
- Saenger Theatre – Drainage Relocation – N. Rampart Street at Iberville, New Orleans, LA

ROAD DESIGN PROJECTS

- Left Turn Lane Addition – US 61 and LA 42 – Prairieville, LA
- Deceleration Lane – US 31W & KY 1008 – Franklin, KY
- Road Widening – Club Deluxe Road – Hammond, LA

LAKE TRAIL DRAINAGE PUMPING STATION, KENNER, LA

Mr. Eustis served as the Lead Civil Engineer for this $1 million project to construct a new 8,100 gpm drainage pump station along Vintage Drive in Kenner, Louisiana. Lake Trail Drive is lower than adjacent streets and regularly floods during heavy rain events when water levels in the open canal are high. To alleviate this regular flooding problem, a new drainage pumping

station has been constructed on the bank of the open canal to facilitate street drainage when gravity drainage into the canal is limited. Mr. Eustis oversaw development of plans and specifications as well as construction administration. Construction of the project is now complete.

PRELIMINARY DESIGN FOR LEVEE LIFTS FOR LPV 4.2A AND 4.2B, ST. CHARLES PARISH, LA

LH&J was asked by the PLD and CPRA to develop preliminary plans, quantities and cost estimates for lifting these levee reaches. Various levee lift heights were analyzed along with straddle lifts and berm lifts. Mr. Eustis was the Lead Civil Engineer for these two levee reaches. He oversaw and coordinated the development cross sections and computer models to develop design alternatives for levee lifts along with material quantities and cost estimates.

KIA OF COVINGTON, COVINGTON, LA

Mr. Eustis was the Lead Civil Engineer for the civil site development of this Kia of Covington Auto Dealership. He was responsible for designing all civil sitework including pervious pavements, storm water management system, and utility design. The entire project including the sitework was designed as a LEED Silver project. The project site was a 4 acre undeveloped vacant wooded lot. Developing the dealership on this property required strategic stormwater management planning which included moving of waters through pervious pavements to bioswales to be treated before going to the adjacent wetlands. The project required permitting with the LA DEQ. To stay within LEED requirements as well as meet Stormwater Management requirements of the jurisdiction, Mr. Eustis proposed a stormwater management plan that included bioswales, pervious pavement, storage of roof water (green roofs) for reuse irrigation applications, as well as on site detention storage through the use of several detention ponds. Also with the combined use of these items, the runoff from the site was effectively reduced by 25%.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Casey M. Genovese, P.E.

Project Assignment:

Civil Engineer

Name of Firm with which associated:

LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

15 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.

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 RD.
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.

TEC Professional Services Questionnaire

Casey M. Genovese, P.E. **Resume**
Project Assignment – Civil Engineer

Genovese is in charge of the traffic work for all CVS/Pharmacy projects. He has been responsible for the following traffic improvement projects and studies for the following projects:

CVS – KENNER, LA, WILLIAMS BLVD. & WEST NAPOLEON AVENUE
Traffic Impact Analysis and George Avenue Road Design

CVS - COVINGTON, LA - LA 21 & LA 1085
Resignalization and Intersection Restriping from a signalized T-intersection to a signalized 4-way approach intersection.

CVS - MEMPHIS, TN - US 64 & HOUSTON LEVEE RD.
Road Widening, Intersection Restriping, Signal Pole Relocation & Resignalization

CVS - DENHAM SPRINGS, LA - S. RANGE AVE. (LA 3002) & NORTH ST.
Design of a New Span Wire Traffic Signal including Intersection Restriping

CVS - MEMPHIS, TN - PARK AVE. & S. HIGHLAND ST.
Intersection Radius Improvements, Signal Pole Relocation & Resignalization

CVS - OPELOUSAS, LA - US 190 & WALLIOR ST.
Right Turn Lane Extension

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

Surveyor

Name of Firm with which associated:

LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

17 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.

Following is a small sampling of Muller's experience:

- I-10 Metairie - Causeway to Orleans Parish Line - Topo & Right-of-Way
- I-10 Metairie - Clearview to Causeway - Topo
- I-10 Metairie - Veterans Memorial Blvd. to Clearview - Topo
- I-10 Kenner - Williams Blvd. Interchange - Topo & Right-of-Way
- US 190 - Mandeville - Causeway to State Park - Topo & Right-of-Way
- US 190 - Slidell - Fremaux Interchange - Topo & Right-of-Way
- US 190 - Slidell - Fremaux- 9th to I-10 - Topo & Right-of-Way
- I-10 Slidell - LA 433 to US 190 - Topo
- US 190 Slidell - US 11 to Thompson Rd. - Topo & Right-of-Way
- St. Tammany Parish East of Abita Springs - New Highway from LA 36 to LA 435 - Topo & Right-of-Way
- LA 611 - Metairie Road - Topo & Right-of-Way
- I-10 New Orleans - S. Broad to St. Charles - Topo
- LA 3139 Earhart Blvd. - Jefferson/Orleans Parish Line to Clara St. - Topo & Right-of-Way
- Lakes Charles - McNeese/Airport - Right-of-Way

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:
12 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 has served as a survey crew member and more recently as a survey party chief on numerous projects. 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 **Resume**
Project Assignment – Survey Party Chief

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:
8 Years
Education: Degree(s)/Year Specialization:
University of New Orleans / B.S. / 2005 / 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**: **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 **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.

TEC Professional Services Questionnaire

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

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:
Timothy J. Roth, P.E., Construction Management
Project Assignment:
Construction Management
Name of Firm with which associated:
LINFIELD, HUNTER & JUNIUS, INC.
Years' experience with this Firm:
8 Years
Education: Degree(s)/Year Specialization:
University of New Orleans / B.S. / 1975 / Civil Engineering Louisiana State University / M.S. / 1984 / Civil Engineering
Active registration: Year first registered/discipline:
1982 / Civil / LA License No. PE.0020100
Other experience and qualifications relevant to the proposed Project:
Construction Management Services, U.S. Army Corps of Engineers Projects, New Orleans District and Lafayette Area Office, LA For three years LH&J provided skilled qualified and experienced Construction Management personnel to the US Army Corps of Engineers, New Orleans District for flood protection and other projects that extend from Plaquemines Parish to Lafayette, LA. Mr. Roth provided oversight and supervision for the 25 LH&J personnel who are assigned full time to ongoing USACE projects. **West Bank Hurricane Storm Damage Risk Reduction Contracts, New Orleans District, U. S. Army Corps of Engineers** Mr. Roth retired from the USACE after 40 years of exemplary service, primarily while serving within the MVN Construction Division. During the period from 2007 to 2012 he performed as the Area Engineer for all West Bank Hurricane Storm Risk Reduction Contracts (HSDRRS-W), All NOD Dredging and SELA-J Projects. In this capacity he acted as Administrative Contracting Officer (ACO) for a wide variety of civil works construction projects in southern Louisiana. Typical projects included civil works navigation, flood control, hurricane protection, environmental restoration, and deep and shallow draft dredging of navigation channels. He performed as the USACE's representative for projects as large as the $1.065 Billion WBV-90 GIWW West Closure Complex and routinely managed a number of simultaneous maintenance dredging projects that were

Timothy J. Roth, P.E., Construction Management **Resume** **Project Assignment – Construction Management**

necessary to maintain navigation along the Mississippi River. Other types of major USACE construction projects performed under his responsibility include: Levees, Floodwalls, Pump Station Fronting Protection, Floodgates, Drainage Canals & Structures.

Mr. Roth was directly responsible for Planning, Coordinating, and Directing the operations and activities of the West Bank Area Office. He managed and directed the activities of professional, sub-professional, technical support, and clerical employees engaged in the administration of construction contracts. He provided support to the MVN Safety and Security Programs and supervised 65 to 75 employees. Other duties required maintaining liaison with local interests and governing bodies, maintaining surveillance over conditions and works in the area, providing field support to other District elements in the accomplishment of their programs, overseeing contract inspection activities, participating in emergency operations, and performing other tasks relating to the functional responsibilities of the Area Office.

He also served as Contracting Officer's Representative (COR) on A-E services contracts for construction inspection and surveying work performed in support of the West Bank Area Office operations and served as the representative of the Chief, Construction Division for construction management and related public liaison activities. As a technical expert, Mr. Roth provided advice and guidance to subordinates in resolving technical and administrative problems; reviewed reports and inspected work in progress and, upon completion, and provided decision in resolving matters of a controversial or policy setting nature.

His duties as a Representative of the Contracting Officer included providing surveillance and oversight on all District contract civil works construction assigned to the West Bank Area Office. He recommended changes necessitated by local conditions, engineering requirements, and/or other pertinent considerations and coordinated field review with local levee boards and other involved agencies. He reviewed contractor's proposed construction schedules, construction plans and methods, shop drawings, etc. for technical adequacy and supervised the Government inspection of the contractor's construction materials, operations, and activities for adherence to established plans and specifications, regulations, acceptable construction practices, quality control, safety, labor relations, and other standards. Mr. Roth approved Government estimates and directed changes in plans and/or specifications for modifications and negotiated changes. He developed and furnished technical engineering data and findings of fact for use on change orders or modifications to existing contracts, and in connection with claims and disputes arising under construction contracts.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Nicholas P. Talbot, Senior Resident Inspector

Project Assignment:

Resident Inspector

Name of Firm with which associated:

LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

7 Years

Education: Degree(s)/Year Specialization:

University of New Orleans - Management
Delgado Community College - Assoc. B.A. / 2011 / Management

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Talbot is a seasoned Construction Inspector with over 14 years of experience. Projects completed in coordination with the United States Army Corps of Engineers (USACE) account for 7 years of this experience. Prior to construction inspection, Talbot was a Materials Testing Field Technician and accordingly is familiar with the normal material tests and procedures commonly needed for construction projects.

REGISTRATIONS/CERTIFICATIONS:
LADOTD – Embankment and Base Course Inspection/Certification
LADOTD – Portland Cement Concrete Paving
LADOTD – Asphalt Concrete Paving Certification
ATSSA – Traffic Control Technician (Registered Flagger)

Hoey's Canal Improvements (Phase II & III), Jefferson Parish, LA
Resident Inspector for this **drainage project** that consisted of the concrete lining of approximately 1,700 feet of earthen canal and included construction of a new in-line pile-supported railroad culvert. Talbot was responsible for monitoring the work and contractor QC and QA activities, coordinating materials testing activities, verifying contractor payment request quantities and preparation of reports summarizing daily construction activities.

TEC Professional Services Questionnaire

Nicholas P. Talbot, Resident Inspector **Resume**
Project Assignment – Resident Inspector

Jefferson Parish Submerged Roads Program – Asphalt Package, Jefferson Parish, LA
Resident Inspector for this project that consisted of the cold milling and overlaying of numerous blocks of asphalt roadway. Talbot was responsible for monitoring the work and contractor QC and QA activities, collecting and organizing asphalt truck tickets, verifying contractor payment request quantities and preparation of reports summarizing daily construction activities.

Diamondhead Wastewater Treatment Plant Expansion Program, Diamondhead, MS
Resident Inspector for this $24 million project to construct a 1.25 MGD wastewater treatment plant in Diamondhead, MS. He provides daily supervision of the Contractor's field activities and monitors activities for permit compliance for this FEMA funded project.

Increase Pumping Capacity of Lift Station No. 7, Belle Chasse, LA
Resident Inspector for this project that consisted of pumping improvements to a major lift station, installation of approximately 1,400 feet of 16-inch diameter force main and replacement of approximately 900 feet of concrete roadway. Talbot was responsible for monitoring the work and contractor QC and QA activities, coordinating materials testing activities and verifying contractor payment request quantities.

USACE – Reach 3 Lakefront Levee Phase 2 Project, New Orleans, LA
Responsible for monitoring all QC and QA field and laboratory embankment testing. Testing on embankment inclusive of field nuclear densities, sand cone verification and one point proctor testing; reviewed and analyzed all lab reports to ensure accuracy with field data. The project further consisted of clearing and grubbing of existing levee and borrow pits, placement of compacted fill on both protected and flood side of levee, construction of new access road, and the placement of asphalt access road the entire length of project.

TEC Professional Services Questionnaire

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

PROJECT NO. 1

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Plaquemines Parish Waterworks Master Plan Plaquemines Parish, LA Plaquemines Parish Government 8056 Highway 23, Suite 309 Belle Chasse, LA 70037 Mr. Ken Dugas, P.E. 504-934-6115	Hydraulic Design Potable Water System, Plans, Specifications, Contract Administration. See Section B.1.1 in Item N.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2002	$15,000,000	$15,000,000

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Water Transmission Line Deer Range to West Pointe-a-la-Hache Plaquemines Parish, LA Plaquemines Parish Government 8056 Highway 23, Suite 309 Belle Chasse, LA 70037 Mr. Ken Dugas, P.E. 504-934-6115	Plans, Specifications, Contract Administration. See Section B.1.2 in Item N.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
1995	$2,000,000	$2,000,000

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility**	
Lindberg Waterline Slidell, LA City of Slidell 2055 Second Street Slidell, LA 70458 Mr. Blaine Clancy, P.E. 985-646-4270	Plans, Specifications, Contract Administration. See Section B.1.3 in Item N.	
Completion Date (Actual or estimated)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
Ongoing	$500,000	$500,000

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Utility Relocations for Highway Widening, Port Sulphur, LA Plaquemines Parish Government 8056 Highway 23, Suite 309 Belle Chasse, LA 70037 Mr. Ken Dugas, P.E. 504-934-6115	Plans, Specifications, Contract Administration. See Section B.1.4 in Item N.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2002	$1,400,000	$1,400,000

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
30" and 24" Waterline, Orpheum Avenue Pumping Station No. 6 to Hoey's Cut Jefferson Parish, LA Jefferson Parish Government 1221 Elmwood Park Blvd. Harahan, LA 70123 Mr. Neil Schneider, P.E. 504-736-6833	Plans, Specifications, Contract Administration. See Section B.1.5 in Item N.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
1991	$22,000,000	$22,000,000

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
12" Waterline Bertrandville to White Ditch East Bank of Plaquemines Parish, LA Plaquemines Parish Government 8056 Highway 23, Suite 309 Belle Chasse, LA 70037 Mr. Ken Dugas, P.E. 504-934-6115	26,000 Linear Feet of 12" Waterline, plans, specifications, contract administration. See Section B.1.6 in Item N.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2001	$910,000	$910,000

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
12" Waterline from Woodland Highway to Hebert Boulevard Belle Chasse, LA Plaquemines Parish Government 8056 Highway 23, Suite 309 Belle Chasse, LA 70037 Mr. Ken Dugas, P.E. 504-934-6115	6,000 Linear Feet of 12" Waterline. Plans, Specifications, Contract Administration. See Section B.1.7 in Item N.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
1999	$300,000	$300,000

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
50", 36", 12" & 8" Waterlines for the Hollygrove Area Drainage Improvement New Orleans, LA U.S. Army Corps of Engineers 7400 Leake Avenue-Rm 302 New Orleans, LA 70118 Mr. Darryl Bonura 504-862-2653	300 Linear Feet of 50" Waterline Plans, and 200 Linear Feet of a 36" Waterline, over 10,000 LF 8" waterline, specifications. See Section B.1.8 in Item N.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2003	$34,400,000	$34,400,000

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Dillard University Water System Improvements New Orleans, LA Dillard University 2601 Gentilly Blvd. New Orleans, LA 70122 Mr. Adonis Woods 504-816-4131	Complete Engineering Services for Assessment of University Water System, Recommendations for Improvements, Phasing/ Construction of New System Loop. See Section B.1.9 in Item N.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
Ongoing	$600,000	$600,000

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Belle Chasse Water Treatment Plant Expansion Plaquemines Parish, LA Plaquemines Parish Government 8056 Highway 23, Suite 309 Belle Chasse, LA 70037 Mr. Ken Dugas 504-934-6115	Study, Plans, Specs, bid phase and construction phase services. 2.5 MGD water plant expansion. See Section B.1.10 in Item N.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2002	$5,500,000	$5,500,000

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 **Advanced Metering Infrastructure (AMI)** procurement document development, comprehensive management and implementation. 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, project managers and construction inspectors who are ready to assist Jefferson Parish with the procurement document development and management related to Advanced Metering Infrastructure (AMI). 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, 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 (30 years)*
- ✓ *The Port of New Orleans since 1971 (50 years)*
- ✓ *U.S. Army Corps of Engineers since 1973 (48 years)*
- ✓ *Plaquemines Parish Government since 1973 (48 years)*
- ✓ *City of New Orleans since 1974 (47 years)*
- ✓ *U.S. Navy, Southern Division since 1975 (46 years)*
- ✓ *Sewerage & Water Board of New Orleans since 1979 (42 years)*
- ✓ *CVS/Pharmacy since 2004 (17 years)*

A. MINIMUM REQUIREMENTS FOR SELECTION

1. The persons or firms under consideration shall have at least one (1) principal who is a licensed, registered professional engineer in the State of Louisiana. (Section C. of TEC Professional Services Questionnaire):
   Nathan J. Junius, P.E., P.L.S. has over 19 years of design experience in Civil Engineering projects including major water design, drainage design, culvert design, roadway design, traffic design and project management.

2. The persons or firms under consideration shall have a professional in charge of the project who is a licensed, registered professional engineer in the State of Louisiana with a minimum of five (5) years of experience. (Section K. "Professional in Charge of Project:" of TEC Professional Services Questionnaire:
   Robert E. Nockton, P.E. has over 20 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.

3. The persons or firms under consideration shall have one (1) employee who is a licensed, registered professional engineer in the State of Louisiana in the applicable discipline involved. A subcontractor may meet this requirement only if the advertised Project involves more than one discipline. (Section D. of TEC Professional Services Questionnaire).
   Nathan J. Junius, P.E., P.L.S. has over 19 years of design experience in Civil Engineering projects including major water design, drainage design, culvert design, roadway design, traffic design and project management.

B. EVALUATION CRITERIA

B.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 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 and L).
- ✓ 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.

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
- Saltwater 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
- 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
- Lutcher 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:

B.1.1 Plaquemines Parish Waterworks Master Plan, 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 saltwater 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 upriver so as to be unaffected by saltwater 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 saltwater 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.

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

As part of the Saltwater 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.

B.1.3 Lindberg Waterline, Slidell, LA

The City of Slidell is currently experiencing rapid growth. An anticipated area of future development is located north of US Highway 190 along the East I-10 Service Road. To accommodate this projected development, the City of Slidell is extending public water and sewerage across Interstate 10 to the East I-10 Service Road. As a first phase, these extensions will include approximately 1,100 linear feet each of new waterline and sewage force main, 700 feet of which will be installed in casing bored beneath the I-10 and on/off ramps. The project is presently in the design phase, with construction expected within the next six months.

B.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.

B.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.

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.

B.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.

B.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.

B.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.

B.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.

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.

B.1.10 Belle Chasse Water Treatment Plant Expansion

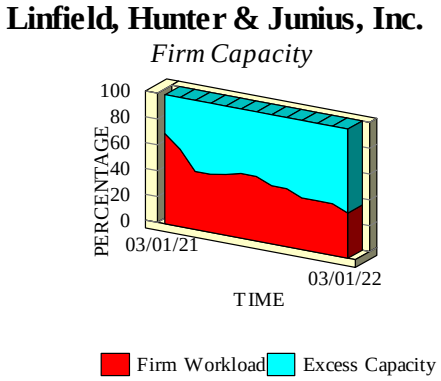
As part of the Salt Water Mitigation between the Plaquemines Parish Government and the United States Corps of Engineers, the existing Belle Chasse Water Treatment Plant was expanded by 2.5 million gallons per day (MGD) to provide water to the south end of Plaquemines Parish during severe low water events. 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.

B.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 2021. The 15% capacity anticipated for water projects would be very welcome and needed to maintain our current staff levels.



B.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.

B.4 Status of Current Litigation with Jefferson Parish

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

B.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.

B.6 Size of Firm

Linfield, Hunter & Junius, Inc. employs forty (40) 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.

B.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

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.

Linfield, Hunter & Junius, Inc. has successfully managed large projects for public and private clients.

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: Vice President **Date:** March 16, 2021

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

State of Louisiana

Board of Architectural Examiners

The firm whose name appears on this certificate is in compliance with the provisions of the Louisiana State Board of Architectural Examiners' Licensing Law and Rules and is duly registered and entitled to practice architecture in the State of Louisiana.

CERTIFICATE OF AUTHORITY NO. AE0030 EXPIRES June 30, 2021

Linfield, Hunter & Junius, Inc.

President

Secretary

Executive Director

May 15, 2020 — Date

$75.00 — Fee Paid

(ALL CERTIFICATES BECOME DELINQUENT AFTER EXPIRATION DATE)

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*

Print Close

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225-925-6291 | Fax 225-925-6292