STATEMENT OF QUALIFICATIONS FOR ENGINEERING/ ARCHITECTURAL/SURVEYING SERVICES

TEXAS GENERAL LAND OFFICE - COMMUNITY DEVELOPMENT BLOCK GRANT -MITIGATION REGIONAL METHOD OF DISTRIBUTION PROGRAM

SEPTEMBER 6, 2022

SUBMITTED BY:

HUITT-ZOLLARS

MISSION STATEMENT

We are people committed to understanding and meeting the needs of our clients with quality and integrity.

CORPORATE IDEOLOGY

PURPOSE + CORE VALUES + GOAL + COMMITMENT = SUCCESS

<u>Purpose</u> To constantly improve the quality of life in our world

Core Values

- To achieve the highest level of quality in everything we do
- To always conduct ourselves with consummate integrity
- To achieve client satisfaction through uncompromised personal service
- To provide the appropriate environment for people to work, grow, and prosper
 - To maintain consistent growth and a reasonable profit in order to perpetuate a healthy company
 - To always strive to advance our services to new horizons

<u>Goal</u> To be the very best in our industry

Commitment

To be unrelenting in the pursuit of our goal, while always maintaining our sense of purpose and never compromising our core values

> <u>Success</u> Huitt-Zollars "The Very Best"

ENGINEERING SERVICES/ARCHITECTURL/SURVEYING SERVICES FOR TEXAS GENERAL LAND OFFICE COMMUNITY DEVELOPMENT BLOCK GRANT - MITIGATION REGIONAL METHOD OF DISTRIBUTION PROGRAM



HUITT-ZOLIARS

HUITT-ZOLLARS, INC. 1 10350 Richmond Ave. 1 Suite 300 1 Houston, TX 77042-4248 1 281.496.0066 phone 1 281.496.0220 fax 1 huitt-zollars.com

September 6, 2022

City of Richwood City's Secretary Office Attn: Kirsten Garcia 1800 N. Brazosport Boulevard Richwood, Texas 77531

Reference: STATEMENT OF QUALIFICATIONS FOR ENGINEERING, ARCHITECTURAL AND SURVEYING SERVICES FOR TEXAS GENERAL LAND OFFICE COMMUNITY DEVELOPMENT BLOCK GRANT -MITIGATION REGIONAL METHOD OF DISTRIBUTION PROGRAM

Dear Kirsten Garcia:

Following Tropical Storm Allison in 2001, Hurricane Rita in 2005, Hurricane Ike in 2008, the Memorial Day 2015 floods, the Tax Day 2016 floods, Hurricane Harvey in 2017 and, most recently, COVID-19, **Huitt-Zollars** has provided responsive engineering and architectural services to local Texas Cities and Counties for state and federal grant-funded projects. We have a complete understanding of the scope of work to be performed due to our recent and relevant CDBG-DR and -MIT funded project planning and design experience which includes:

- ✓ Design of CDGB-DR funded Pin Oak Drainage Project for City of Dickinson
- ✓ Design of CDGB-DR funded Tributary to Gum Bayou Widening Project for City of Dickinson
- ✓ Design of CDGB-DR funded Nicholstone Drainage Improvements Project for City of Dickinson
- ✓ Design of CDGB-MIT funded Hughes Road Bypass and Deats Road Drainage Project for City of Dickinson
- ✓ Design of CDGB-DR funded Fortuna Drive Drainage Improvements for City of Katy
- ✓ Design of CDGB-DR funded Beaumont Place Subdivision Drainage for Harris County
- ✓ Design of HMGP funded Drainage Improvements on 9th and 11th Avenues for Galveston County
- ✓ Design of HMGP funded Bacliff Villas Subdivision Drainage for Galveston County
- ✓ Design of HMGP funded Drainage Improvements to Countryside & Rustic Oaks Subdivisions for League City
- ✓ Design of FEMA-PA Bolivar Peninsula Roadways Reconstruction Project for Galveston County
- ✓ Design of FEMA-PA/MIT Replacement of the Paul Hopkins Park Bridge for Galveston County
- ✓ Design of FEMA-HMGP funded new emergency generator for the Bayou Vista City Hall Building

We are committing our most experienced Top CDBG Program Project Manager, **Mike Tehrani, PE, CFM, PMP** to your project. Mike is most knowledgeable of the GLO's Community Block Grant Program funding requirements and has successfully worked with Public Management, Inc. and the City of Dickinson to develop, plan and secure nearly \$60 million in CDBG funding in just the past three years. In addition, Huitt-Zollars has selected the following local small business firms to be on our Team. Wild Associates, a woman-owned local, small business, has completed several challenging local environmental projects. Geotechnical Engineering and Testing, a local DBE, has significant local geotechnical engineering experience. Both of these firms have a long history of providing quality services to Huitt-Zollars on similar type projects.

We appreciate this opportunity and look forward to your continuing interest in our qualifications. Thank you.

Respectfully submitted,

Huitt-Zollars, Inc. 1)me

Gregory R. Wine, P.E., LEED AP Executive Vice President

ADVANCE**DESIGN****

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ENGINEERING, ARCHITECTURAL AND SURVEYING SERVICES FOR TEXAS GENERAL LAND OFFICE'S COMMUNITY DEVELOPMENT BLOCK GRANT - MITIGATION REGIONAL METHOD OF DISTRIBUTION PROGRAM

□ Brief History of Service Provider and General Background

Legal Firm Name:	HUITT-ZOLLARS, INC.
Office Location:	10350 Richmond Avenue
	Suite 300
	Houston, Texas 77042
Date Formed:	Firm established in Texas in 1975
Legal Business Description:	Corporation (Texas)
Contact Person Information:	Gregory R. Wine, P.E., LEED AP; 281-496-0066; gwine@huitt-zollars.com

HUITT-ZOLLARS, INC. is a Texas-based, full-service engineering, architectural, surveying and construction management firm with more than 100 professional, technical, and support personnel with the diversified skills capable of handling the City of Richwood's (City) most complex assignments and demanding project schedules. Our core business is working with local Texas cities and towns to assist them and their Grant Administrator with applying and securing grant funding and to design and successfully deliver their much-needed infrastructure and drainage projects. We have considerable GLO CDBG-MIT and -DR projects along with professional design experience in Harris County. **Huitt-Zollars has adequate resources and our staff members identified in this submittal are committed to carrying out the scope of work requested on the City's timeline. We are the most qualified firm to work with the City on this contract.**

We also have significant CDBG-DR and -MIT funded project experience along with several other state and federally grant-funded projects which includes:

- ✓ Design of CDGB-DR funded Pin Oak Drainage Project for City of Dickinson
- ✓ Design of CDGB-DR funded Tributary to Gum Bayou Widening Project for City of Dickinson
- ✓ Design of CDGB-DR funded Nicholstone Drainage Improvements Project for City of Dickinson
- ✓ Design of CDGB-MIT funded Hughes Road Bypass and Deats Road Drainage Project for City of Dickinson
- ✓ Design of CDGB-DR funded Fortuna Drive Drainage Improvements for City of Katy
- ✓ Design of CDGB-DR funded Beaumont Place Subdivision Drainage for Harris County
- ✓ Design of HMGP funded Drainage Improvements on 9th and 11th Avenues for Galveston County
- ✓ Design of HMGP funded Bacliff Villas Subdivision Drainage for Galveston County
- ✓ Design of HMGP funded Drainage Improvements to Countryside & Rustic Oaks Subdivisions for League City
- ✓ Design of HMGP funded Erosion Protection Improvements for the Nature Center for League City
- ✓ Design of FEMA-PA Bolivar Peninsula Roadways Reconstruction Project for Galveston County
- ✓ Design of FEMA-PA/MIT Replacement of the Paul Hopkins Park Bridge for Galveston County
- ✓ Design of FEMA PA funded replacement of the Bayshore Park Boat Ramp for Galveston County
- ✓ Design of FEMA PA funded improvements to Wayne Johnson Community Center for Galveston County

Huitt-Zollars has the local technical skilled staff with unmatched disaster recovery services in the Houston-Galveston area. **Review of our project portfolio in this submittal will show our strong expertise in both Preand Post-Funding Services associated on State and Federal grant programs.** We have prepared engineering documents for grant applications to FEMA for its Public Assistance, Section 404 and Section 406 Grant Programs; to the TxGLO for its CDBG-DR and CDBG-MIT programs; and to TDEM for its HMGP.

We also provided the planning and engineering services for the application of the **City of Dickinson's successful** grant approvals for \$9 million in TxGLO CDBG-DR projects on Pin Oak Drainage Improvements and the Tributary to Gum Bayou Widening. We also worked closely with the City of Dickinson on its application, engineering and construction management of FEMA-PA funding for Desilting of the City of Dickinson's Roadside Ditches and Culvert Replacements.

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Finally, we worked closely with the City of Dickinson's Grant Administrator, Public Management Inc., to secure nearly \$50 million in CDBG-Mitigation funds to address flooding along Deats Road and for the Dickinson Bayou Hughes Road Bypass. In addition, we recently completed the on-site resident engineering and construction inspection for an FTA-funded Bus Maintenance Facility for the Fort Bend County Transit Authority.

For Galveston County, we have provided the engineering and construction administration on several FEMAfunded projects to include the replacement of the Pedestrian Bridge in Paul Hopkins Park, FEMA-HMG project at Johnson Community Center, FEMA-PA Roadway Paving Improvements on Bolivar Peninsula, FEMA-HMP drainage improvement projects in Bacliff and FEMA-HMP for dry proofing the MEP systems in several county facilities.

Most recently, we prepared an application for the Texas Water Development Board's Flood Infrastructure Fund, which included the **preparation of a benefit cost analysis** that substantiated a \$360 million project to address bank erosion on the Brazos River in Fort Bend County.

Huitt-Zollars offers the City of Richwood our Top Team of CDBG-DR experienced professionals led by our Top Drainage Project Manager, **Mike Tehrani, PE, CFM, PMP**. He is uniquely suited to advance the plan and design of the City of Richwood's projects for this assignment. Mike was the technical professional which helped plan and design four (4) GLO CBDG funded projects to include the Pin Oak Drainage Improvements, the Widening of West Gum Bayou, Nicholstone Drainage Improvements and the Dickinson Bayou Hughes Road Bypass & Deats Road Drainage Improvements for the City of Dickinson. He also has significant drainage expertise and experience on projects throughout the Houston-Galveston areas. He is quite familiar with FEMA's HMGP requirements and has been certified by FEMA as a Substantial Damage Estimator.

Mike has been working with Public Management, Inc. for nearly 4 years. He possesses the exact technical qualifications, relevant GLO CDBG and FEMA HMGP experience and innovative approaches to lighten the workload for the City of Richwood's personnel while successfully working with your Grant Administrator to develop, design and deliver your project in accordance with the requirements for federal funding.

Our staff is highly qualified to provide outstanding services to the City of Richwood on their assigned responsibilities. In addition, each has completed the scope of services the City Richwood requires for their discipline on this project. Our design Task Managers have all completed detailed construction plans and specifications for numerous relevant Federal-funded and non-funded municipal projects.

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Related Experience Applying/ Managing Federally Funded Local Projects and Recent Experience

Huitt-Zollars has significant GLO CDBG project experience on post-disaster damage assessments and grant funded (FEMA PA & HMP, CDBG-MIT, CDBG-DR, etc.) project application and design of numerous local government projects in response to federally declared disasters including Tropical Storm Allison in 2001, Hurricane Ike in 2008 and Hurricane Harvey in 2017. We have worked with and in Galveston County for over 14 years to conduct Disaster Response Damage Assessments and design grant-funded infrastructure projects following Hurricanes Ike and Harvey. We have also performed similar assignments for the City of Dickinson, City of League City, City of Houston, Harris County Flood Control District, Fort Bend County Drainage District and METRO. The following are examples of our Texas GLO CDBG-MIT and -DR funded work.

CDBG-MIT PROJECT – DICKINSON BAYOU HUGHES ROAD BYPASS AND DEATS ROAD DRAINAGE IMPROVEMENTS, Dickinson, Texas

Huitt-Zollars worked with Public Management, Inc. (PMI) to develop the project scope and prepare the application for the TxGLO's competition for CDBG-MIT funded projects in October 2020. Our project was selected for funding by the TxGLO. The proposed project was developed after months of meetings between city representatives and the disaster recovery consulting team. The team incorporated detailed data derived from historical flood impacts, LIDAR and elevation patterns within the community, as well as impacts of the proposed benefits to LMI communities. The team focused on limiting the devastating impacts of future storms and developing long-term recovery projects that will provide immediate and meaningful relief to residents and businesses during extreme storm events. Additionally, the City plans to incorporate this methodology with future long-term recovery efforts that will complement and enhance the City's overall well-being and mitigate the impacts of severe flood events.

Huitt-Zollars also contributed to the Community Needs Assessment to describe the current conditions of the facilities and actions taken on the project to address the damage along with the specific disasterrelated impacts to infrastructure and housing. The scope of work includes surveying, geotechnical

investigations, environmental investigation (PMI's scope) and permitting (Huitt-Zollars' scope), engineering design, traffic control planning, bidding, contract administration and construction management. The work includes construction of a new 2,400 linear foot open channel connecting to Dickinson Bayou, control structure, 2.25 miles of 10'x10' reinforced box culverts, a railroad crossing, new outfall to Dickinson Bayou as well as utility relocations, service connections and all associated appurtenances.



Client Reference: Theo Melancon, City Manager, City of Dickinson, 281-337-6204.

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CITY OF DICKINSON'S PLANNING AND ENGINEERING SERVICES (FOLLOWING HURRICANE HARVEY), Dickinson, Texas

Huitt-Zollars is currently providing comprehensive planning and engineering services to the City of Dickinson's address its drainage issues following Hurricane Harvey in 2017. The project area includes Dickinson Bayou within the City of Dickinson's limits and its tributaries, which include Gum Bayou, Tributary to Gum Bayou, Benson Bayou, Magnolia Bayou, Borden's Gully and Unnamed East Branch. The first phase of the project includes identifying areas experiencing frequent flooding from 5-year to 10-year rainfall events. We conducted site visits, reviewed the hydrology and hydraulics



(H&H) for the sub-watershed, and developed feasible alternatives to address the flooding problems. In association with the City of Dickinson's staff, we are conducting public meetings for each sub-watershed to present the feasible alternatives and to gain public insight, input and buy in. Following the public meetings, Huitt-Zollars will provide engineering design and prepare detailed plans and specifications for the proposed improvements. In addition, Huitt-Zollars will provide H&H design support and prepare cost benefit analyses in support of FEMA's Section 406 and 404 Hazardous Mitigation Grants, NOIs and Community Development Block Grants – Disaster Recovery administered by the Texas Department of Emergency Management.

Huitt-Zollars also prepared construction documents for the desilting of 15 miles of roadside ditches and culverts and clearing and grubbing and hydro-mulch seeding of 3 miles of tributaries. Huitt-Zollars is also providing construction management services for this work and maintaining quantities and site location documentation for submission to FEMA for Public Assistance grants.

Huitt-Zollars also prepared Section 406 Hazardous Mitigation grant documentation to address flooding at the City of Dickinson's Historic Railroad Depot Museum.

We successfully assisted the City of Dickinson in securing over \$9 million in CDBG-DR funding as well as over \$49 million in CDBG-MIT competitive funding for Hurricane Harvey relief. In addition, we met with FEMA and provided the City of Dickinson technical assistance in securing FEMA-PA funding for its drainage system as well as NRCS federal funding for clearing its tributaries to Dickinson Bayou.

We also prepared construction documents (plans and specifications) to repair Hurricane Harvey damage to the roof, electrical and mechanical systems at the City of Dickinson's Fire Station No. 1. *Client Reference:* Theo Melancon, City Manager, City of Dickinson, 281-337-6204.

CDBG-DISASTER RECOVERY PROJECT - PIN OAK DRIVE DRAINAGE IMPROVEMENTS, Dickinson, Texas

Huitt-Zollars worked with the City of Dickinson's (City) Grant Administrator Consultant to develop this project and assisted in the preparation of the Hurricane Harvey Community Development Block Grant – Disaster Recovery Infrastructure Application to successfully secure funding from the Texas General Land Office (TxGLO) for this project. The proposed project was developed after months of meetings between City's representatives and the disaster recovery consulting team. The Team incorporated detailed data derived from historical flood



impacts, LIDAR and elevation patterns within the community, as well as impacts of the proposed improvements on existing facilities. The Team focused on limiting the devastating impacts of future storms



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and developing long-term recovery projects that will provide immediate and meaningful relief to residents and businesses during extreme storm events. Additionally, the City plans to incorporate this methodology with future long-term recovery efforts that will complement and enhance the City's overall well-being and mitigate the impacts of severe flood events.

Huitt-Zollars also contributed to the Community Needs Assessment to describe the current conditions of the facilities and actions taken on the project to address the damage along with the specific disaster-related impacts to infrastructure and housing. Huitt-Zollars also prepared an exhibit documenting the specific disaster condition. Finally, Huitt-Zollars prepared the preliminary project cost estimate. Huitt-Zollars is also providing engineering services for this project, which will provide adequate conveyance for the associated watershed encompassing Pin Oak Drive, Oak Drive and Gill Road.

Project includes surveying, geotechnical investigation and preparation of construction documents to install a new 36-inch and 42-inch Reinforced Concrete Pipe (RCP) storm sewer with grated inlets to augment the existing roadside ditches. The new RCPs shall be installed under the existing pavement to avoid costly relocations of existing utilities. The work includes removal of existing asphalt paving and base and placement of reinforced concrete pavement and treated subgrade. In addition, the existing culverts on the downstream end of Pin Oak Drive shall be modified and the roadside ditches desilted. Huitt-Zollars will also provide bidding and construction administration services for this project.

Client Reference: Theo Melancon, City Manager, City of Dickinson, 281-337-6204.

CDBG-DISASTER RECOVERY PROJECT – WEST GUM BAYOU WIDENING, Dickinson, Texas

Huitt-Zollars worked with the City's Grant Administrator Consultant to develop this project and assisted in the preparation of the Hurricane Harvey Community Development Block Grant – Disaster Recovery Infrastructure Application to successfully secure funding from the Texas General Land Office (TxGLO) for this project. The proposed project was developed after months of meetings between city representatives and the disaster recovery consulting team. The team incorporated detailed data derived from historical flood impacts, LIDAR and elevation patterns within the



community, as well as impacts of the proposed improvements on existing facilities. The team focused on limiting the devastating impacts of future storms and developing long-term recovery projects that will provide immediate and meaningful relief to residents and businesses during extreme storm events. Additionally, the City plans to incorporate this methodology with future long-term recovery efforts that will complement and enhance the City's overall well-being and mitigate the impacts of severe flood events.

Huitt-Zollars also contributed to the Community Needs Assessment to describe the current conditions of the facilities and actions taken on the project to address the damage along with the specific disasterrelated impacts to infrastructure and housing. Huitt-Zollars also prepared an exhibit documenting the specific disaster condition. Finally, Huitt-Zollars prepared the preliminary project cost estimate. Huitt-Zollars is also providing engineering services for this project, which will increase the conveyance and storage capacity of the Tributary to Gum Bayou by excavating a bench on the south side of the channel to accommodate high flow events. The limits of the work include the Tributary to Gum Bayou from its confluence to Gum Bayou upstream to approximately 400 feet west of the dead /end on Baker Drive (approximately 6,300 linear feet). The area shall be cleared, grubbed, new channel cross-section excavated, and the disturbed area shall be hydro mulched seeded. Adjustments to three (3) pipeline

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crossings shall be required along with installation of additional culverts at Owens Street, California Avenue, Texas Avenue and Dickinson Avenue. Finally, new rights of way and easements will be acquired. Huitt-Zollars will also provide bidding and construction administration services for this project. *Client Reference:* Theo Melancon, City Manager, City of Dickinson, 281-337-6204.

CDBG-DISASTER RECOVERY PROJECT – NICHOLSTONE DRAINAGE IMPROVEMENTS, Dickinson, Texas

Huitt-Zollars, as the City's drainage consultant, worked with the City's Grant Administrator Consultant and other team members to develop this project and assisted in the preparation of the Hurricane Harvey Community Development Block Grant – Disaster Recovery Infrastructure Application to successfully secure funding from the Texas General Land Office (TxGLO) for this project. The proposed project was developed after months of meetings between city representatives and the disaster recovery consulting team. The team incorporated detailed data derived from historical flood impacts, LIDAR and elevation patterns within the community, as well as impacts of the proposed improvements on existing facilities. The team focused on limiting the devastating impacts of future storms and developing long-term recovery projects that will provide immediate and meaningful relief to residents and businesses during extreme storm



events. Additionally, the City plans to incorporate this methodology with future long-term recovery efforts that will complement and enhance the City's overall well-being and mitigate the impacts of severe flood events.

Huitt-Zollars also contributed to the Community Needs Assessment to describe the current conditions of the facilities and actions taken on the project to address the damage along with the specific disasterrelated impacts to infrastructure and housing. As the drainage consultant, Huitt-Zollars is also providing H&H engineering services for this project, which will provide improved surface transportation and roadside drainage. Construction consists of the removal of asphalt surfacing and replace with concrete pavement. In addition, the project will consist of clearing of roadside ditches with the removal installation of new culverts at street crossings as well as any utility relocations and all associated appurtenances. *Client Reference:* Theo Melancon, City Manager, City of Dickinson, 281-337-6204.

INTERIOR DESIGN SERVICES FOR CITY HALL IMPROVEMENTS DUE TO COVID-19, Dickinson, Texas

The City of Dickinson selected Huitt-Zollars to design the interior renovations and build-outs within its existing City Hall. The scope of work included architectural, interior design, MEP engineering, Data/IT communications and A/V services to improve:

 City Council Chambers with millwork for a new dais design and modifications to the platform, new power and data communications to accommodate new monitors with camera and microphone as the Mayor's and each Council Members seat, A/V improvements to enable video-streaming for public



meetings with large monitors for audience viewing and social distancing, improved lighting for better visual clarity, and improved finishes for walls, ceiling and floors.

• Conference Room 1 was expanded into an adjacent office space to provide direct access to exterior entry, new A/V equipment was added for videoconferencing and improved lighting was provided for better visual clarity and improved finishes were provided for the walls, ceiling and floors.

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- Conference Room 2 was equipped with new A/V equipment for videoconferencing, improved lighting for better visual clarity, and improved finishes for walls, ceiling and floors.
- Water Utilities' lobby space was expanded and a new exterior service window added for public access. New finishes and lighting were provided.

As no record drawings of the City Hall were available, Huitt-Zollars surveyed the existing wall and ceiling/lighting layouts at areas of work and used Revit to develop 3D BIM models and CADD files illustrating these spaces. We then met with the City staff and collaboratively prepared space plans for the proposed layout of the City Hall. We also coordinated with WCID #1. After approval by the City, we developed the design, illustrating elevations of millwork, power and lighting layout, as well as two finish schemes for City Staff's review and approval. We prepared construction bid documents including a demolition plan, floor plans illustrating power, lighting, data, and finishes, reflected ceiling plan and millwork elevations. Huitt-Zollars also provided bidding services and construction administration for this project.

Client Reference: Ray Stutzman, City of Dickinson, 281-337-6204.

DESIGN SERVICES FOR STRUCTURAL AND DRAINAGE IMPROVEMENTS TO DICKINSON PUBLIC LIBRARY, Dickinson, Texas

The City of Dickinson selected Huitt-Zollars to design improvements to the Dickinson Public Library to address the movement of its structural foundation. The scope of work included surveying and the design of pressed piles to support the building's foundation and drainage improvements around the library. Huitt-Zollars also provided bidding services and construction administration for this project.



Client Reference: Ray Stutzman, City of Dickinson, 281-337-6204.

FEMA DAMAGE ASSESSMENTS AND DESIGN FOR GALVESTON COUNTY (FOLLOWING HURRICANE HARVEY), Galveston County, Texas

Following the flooding and high winds due to Hurricane Harvey in August and September 2017, Huitt-Zollars was competitively selected by Galveston County (County) to assist them in conducting damage assessments for the County's facilities and infrastructure. During a four-week period, our assessment teams, to include representatives an architecture firm and other engineering firms, inspected 197 county roads totaling nearly 85 miles in length, 32 county facilities, one bridge, two observation decks in County parks and one lift station; prepared damage assessments report and cost estimates; and provided quality control.

The observations and assessments were documented using damage assessment worksheets that contained location of the asset, the longitude and latitude of the asset, locations of observed damaged with corresponding photographs. For the roadways, measurements of each distress area were



obtained in order to quantify the degree of damage. The longitude and latitudes for the beginning and ending of the damage were noted, as applicable. These measurements were used to estimate the cost of repair for each damaged area. Cost estimates for roadway repairs were based on the current Texas Department of Transportation (TxDOT) local area unit rate costs prepared in December 2017. The construction cost for repairs to the buildings and other county assets were estimated using the 2018 edition of the RS Means Building Construction Costs. Each repair cost included a soft cost calculated at 40% of the construction cost to cover design, surveying, geotechnical work, environmental work, construction materials testing and construction management. Following an orientation training on the

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field procedures, the damage assessment form, cost estimating format and a safety briefing, multiple teams were mobilized throughout the County to conduct the assessments.

For ease of locating the damaged assets, Huitt-Zollars, Inc. prepared the final report using a GIS database and geo-linked a PDF of each damage assessment report with photographs and cost estimate for all of the County assets, which were assessed for damage due to Hurricane Harvey. Huitt-Zollars, Inc. also met with FEMA at the County's Courthouse following completion of the damage assessments. FEMA stated that once the County's information is submitted, they will schedule site visits with the County and Huitt-Zollars to review the damage assessments in the field.

Client Reference: Michael Shannon, P.E., County Engineer, Galveston County, 409-770-5557.

FEMA – PA & HMGP FUNDED WAYNE JOHNSON COMMUNITY CENTER, Galveston County, Texas

Following Hurricane Harvey, Galveston County contracted with Huitt-Zollars, Inc. to perform a FEMA damage assessment, develop flood hazard mitigation alternatives, and provide design, bidding, and construction phase services for drainage improvements and facility repairs for the Wayne Johnson Community Center in Galveston County, Texas. Huitt-Zollars prepared plans, specifications and estimates for the design of this FEMA-Funded Public Assistance and Hazardous Mitigation Project. This project includes drainage improvements along with significant interior renovation due



to extensive flooding from Hurricane Harvey. Huitt-Zollars also prepared a Project Manual for the project based on the County's standard construction contract including the writing of Special Provisions, as required.

Bid Phase Services included attending the pre-bid meeting, issuing addenda, attending bid opening, and preparing bid tabulations with recommendations for award. Construction Administration services were provided during the construction contract, including Construction Inspection and Materials Testing services. Huitt-Zollars and its subconsultants attended the preconstruction conference and monthly project progress meetings. They also monitored the project progress, provided weekly inspection and progress reports, and reviewed the contractor's monthly pay estimates, submittals, and Requests for Information (RFIs). Huitt-Zollars monitored and managed the activities of construction inspectors and the materials testing laboratory, reviewed lab test reports for conformity with technical specifications, reviewed submittals from the contractor, and prepared change orders. Huitt-Zollars participated in the substantial completion site visit, prepared a punch list of incomplete items, and conducted a final site visit.

Client Reference: Michael Shannon, P.E., County Engineer, Galveston County, 409-770-5557.

FEMA – PA & HMGP FUNDED BAYSHORE PARK BOAT RAMP Galveston County, Texas

Galveston County contracted with Huitt-Zollars, Inc. to perform a damage assessment, coordinated and

successfully negotiated with FEMA to obtain funding, prepared construction documents, and provided bidding, and construction phase services for the FEMA-Funded Repairs and Improvement to the Bayshore Park Public Boat Ramp in Galveston County, Texas. The project replaces the damaged boat ramp and pier and mitigates future damage with a different pavement design with toe wall. The project required coordination with the US Army Corps of Engineers. Huitt-Zollars prepared drawings, specifications, and an opinion of probable construction cost for the project. Huitt-Zollars also prepared a



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Project Manual for the project based on the County's standard construction contract including the writing of Special Provisions, as required.

Client Reference: Michael Shannon, P.E., County Engineer, Galveston County, 409-770-5557.

FEMA – PA FUNDED REPLACEMENT OF PAUL HOPKINS PARK PEDESTRIAN BRIDGE, Galveston County, Texas

Galveston County contracted with Huitt-Zollars, Inc. to perform a damage assessment due to Hurricane Harvey, coordinated and successfully negotiated with FEMA to obtain funding, coordinated permit requirements with the US Army Corps of Engineers, designed, and provided bidding, and construction phase services for the FEMA-Funded Replacement of the Paul Hopkins Park Bridge in Dickinson for Galveston County, Texas. The project replaces the damaged



timber piling and bridge with a single span self-weathering bridge designed to have the original, iconic midspan timber canopy along with ADA accessibility.

The scope of work included surveying, geotechnical investigation, and engineering and construction inspection. Huitt-Zollars prepared drawings, specifications, and an opinion of probable construction cost for the project. The drawings included plan view drawings, typical pavement sections, traffic control plans, and details. Huitt-Zollars also prepared a Project Manual for the project based on the County's standard construction contract including the writing of Special Provisions, as required. Bid Phase Services included attending the pre-bid meeting, issuing addenda, attending bid opening, and preparing bid tabulations with recommendations for award.

Construction Administration services were provided during the construction contract, including Construction Inspection and Materials Testing services. Huitt-Zollars and its subconsultants attended the preconstruction conference and monthly project progress meetings. They also monitored the project progress, provided weekly inspection and progress reports, and reviewed the contractor's monthly pay estimates, submittals, and Requests for Information (RFIs). Huitt-Zollars monitored and managed the activities of construction inspectors and the materials testing laboratory, reviewed lab test reports for conformity with technical specifications, reviewed submittals from the contractor, and prepared change orders. Huitt-Zollars participated in the substantial completion site visit, prepared a punch list of incomplete items, and conducted a final site visit.

Client Reference: Michael Shannon, P.E., County Engineer, Galveston County, 409-770-5557.

PROJECT BRAZOS – ADDRESSING THE BRAZOS RIVER BANK EROSION IN FORT BEND COUNTY, Fort Bend County, Texas

Following Hurricane Harvey in 2017 and the completion of a Meander Migration Study along the 89 miles of the Brazos River through Fort Bend County, the Fort Bend County Drainage District selected Huitt-Zollars to prepare a conceptual design at thirteen (13) critical bank erosion sites in Fort Bend County. The continued erosion jeopardizes the structural integrity of bridges, pipelines, electrical transmission towers, other infrastructure, levees, roads, parks and drainage outfalls. Our



scope of work included coordination with the US Army Corps of Engineers' (USACE) Engineer Research and Development Center (ERDC) of a conceptual design using stone toe dikes and stone tie-backs to provide erosion protection. In accordance with USACE's Engineer Manual 1110-2-1601, Hydraulic Design of Flood Control Channels, Huitt-Zollars conducted a scour analysis, sized the erosion protection stone, computed the quantities of stone for erosion protection and launching of stone for underwater erosion protection.

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Huitt-Zollars also met with the USACE - Galveston District Regulatory Branch to discuss the stone toe dike repair alternative and to discuss permitting requirements. Conceptual plans with typical cross-sections for the stone toe dikes and stone tie backs were prepared for all thirteen sites. In addition, probable project costs for each of the sites were calculated. Working with the Fort Bend County Commissioners Court appointed Task Force and the City of Sugar Land, Huitt-Zollars prepared the Project Charter and presented Project Brazos to our local stakeholders. We also gave a presentation to members of the Texas Legislature along with site visits in December 2019. Since that time, the Project Brazos Executive Committee and its Steering Committee are continuing to develop support for the project in preparation for applying for federal funding. On June 15, Huitt-Zollars prepared and submitted to the Texas Water Development Board an application for the Flooding Infrastructure Fund for Project Brazos. This application included a Benefit-Cost Analysis which resulted in a B-CR of 18.7 for this \$360 million project. Huitt-Zollars is currently working with the County, City of Sugar Land and other stakeholders to submit a CDBG-MIT application to the TxGLO for funding for Project Brazos.

Client Reference: Mark Vogler, P.E., General Manager and Chief Engineer, Fort Bend County Drainage District, 281-342-2863.

FEMA DRAINAGE STUDY AND IMPROVEMENTS TO COUNTRYSIDE AND RUSTIC OAKS SUBDIVISIONS, City of League City, Texas

Following Hurricane Harvey, the City of League City selected Huitt-Zollars to provide professional engineering services to review existing documents, conduct site investigations, analyze drainage issues, develop recommendations to address drainage issues, and prepare and submit a Preliminary Engineering Report (PER) documenting drainage problem remediation recommendations and probable construction costs for thirty (30) separate locations in nine (9) subdivisions -Brittany Bay, Cedar Landing, Clear Creek Heights, Clear Creek Meadows, Countryside, Ellis Landing, Newport, Rustic Oaks



and The Landing for submission of FEMA funding. Huitt-Zollars conducted site visits and met with residents for informal discussions of drainage issues at the beginning of the project. The existing storm sewer outfalls for each subdivision were modeled using the Rational Method with City of Houston intensity values. The intensity values and peak discharges in this report are slightly higher and more conservative than the original design in the record drawings. The difference between the 100-yr flow and the design capacity in the outfall pipes was used as the baseline for making recommendations for extreme event overflow swale improvements in the drainage easements. Based on the study, Huitt-Zollars recommended that the capacity of the extreme event overflows in the drainage easements be increased in order to prevent excessive ponding in the streets as described in the PER.

Huitt-Zollars conducted site visits, met with residents, performed topographic and boundary surveys, reviewed the existing drainage and evaluated proposed drainage improvements effects on each tributary; developed conceptual designs of drainage improvements in the Countryside and Rustic Oaks Subdivisions. Huitt-Zollars also determined permit requirements with the US Army Corps of Engineers (USACE). Huitt-Zollars also prepared the final design using Atlas 14 drainage design criteria, prepared construction documents and probable construction cost estimate, and provided bidding and construction phase engineering services. Huitt-Zollars conducted public meetings to present the project to the residents. *Client Reference:* Jack Murphy, P.E., Lead Drainage Engineer, City of League City, 281-554-1433.

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FEMA - HMGP FUNDED 9TH AND 11TH AVENUES DRAINAGE IMPROVEMENTS, Galveston County, Texas

Galveston County contracted with Huitt-Zollars to provide design, bidding, and construction phase services for drainage improvements of the roadside ditches and culverts along 9th and 11th Avenues in the unincorporated areas of Bacliff in Galveston County, Texas. Huitt-Zollars prepared plans, specifications and estimates for the design of this FEMA-Funded drainage improvement project. This project improves the drainage in a six-block by eight-block area of unincorporated Bacliff that is highly developed. The local area benefiting from this project is 7th Street to 13th Street



and from Avenue A to the Bacliff outfall ditch. Included in this project is the re-grading of 5,200 lineal feet of roadside ditches on 9th & 11th Avenue and 250 linear feet of replacement storm drainpipe. Scope of work includes surveying, subsurface utilities investigation, and engineering and construction inspection. Coordination requirements included utility service providers for electrical, telecommunications, natural gas, water and sewer. Huitt-Zollars prepared drawings, specifications, and an opinion of probable construction cost for each road. The drawings included plan view drawings, typical pavement sections, traffic control plans, and details. Huitt-Zollars also prepared a Project Manual for the project based on the City's standard construction contract including the writing of Special Provisions, as required.

Bid Phase Services included attending the pre-bid meeting, issuing addenda, attending bid opening, and preparing bid tabulations with recommendations for award. Construction Administration services were provided during the construction contract, including Construction Inspection and Materials Testing services. Huitt-Zollars and its sub consultants attended the preconstruction conference and monthly project progress meetings. They also monitored the project progress, provided weekly inspection and progress reports, and reviewed the contractor's monthly pay estimates, submittals, and Requests for Information (RFIs). Huitt-Zollars monitored and managed the activities of construction inspectors and the materials testing laboratory, reviewed lab test reports for conformity with technical specifications, reviewed submittals from the contractor, and prepared change orders. Huitt-Zollars participated in the substantial completion site visit, prepared a punch list of incomplete items, and conducted a final site visit. *Client Reference:* Shannon, P.E., County Engineer, Galveston County, 409-770-5557.

CITY OF DICKINSON FEMA – PA FUNDED DESIGN AND CONSTRUCTION MANAGEMENT OF DESILTING ROADSIDE DITCHES AND CULVERTS, Dickinson, Texas

Huitt-Zollars, Inc. performed topographic surveys, coordinated with public utilities, designed the removal of silt from roadside ditches and culverts, provided bidding and full-time construction management inspection for the FEMA – Public Assistance Funding for Desilting Roadside Ditches and Culverts due to Hurricane Harvey in Dickinson, Texas. Huitt-Zollars also worked with the City to successfully negotiate funding with FEMA for the project.



Huitt-Zollars prepared plans and profiles for the regrading of ditches to drain and upsizing of culverts. We also prepared the bid proposal form for separating FEMA reimbursable and City funded work, technical specifications, and an opinion of probable construction cost. Huitt-Zollars also prepared a Project Manual for the project based on the City's standard construction contract.

We led the Pre-Construction meeting and provided full-time, on-site personnel to make observations of the work in progress and track daily quantities of work by street segment, provided daily work reports to the City; provided daily photos of the progress of the work; provided consultation and advice to the City

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during construction; monitored the contractor's disposal of excavated material; attended progress meetings with the Contractor to review actual progress and to review the two-week look ahead schedule; monitored the contractor's operations and production to determine that the work was in general conformance with the drawings and specifications; established and maintained files including contracts, drawings, specifications, correspondence, RFI's, schedules, and other documents; ensured coordination and marking of public and private utilities; corresponded with residents and third parties; and provided a final Punch List of construction items.

Client Reference: Theo Melancon, City Manager, City of Dickinson, 281-337-6204.

FEMA - HMGP FUNDED BACLIFF VILLAS SUBDIVISION DRAINAGE RESTORATION, Galveston County, Texas

Galveston County contracted with Huitt-Zollars, Inc. to provide design, bidding, and construction phase services for drainage improvements for the FEMA-Funded project in the Bacliff Villas Subdivision in Galveston County, Texas. The existing storm sewer system consists of seven (7) separate underground systems draining between residences to a main outfall ditch. All storm water sheet flows to these underground systems. The outfall pipes, street inlets, and inlet leads have become ineffective and deteriorated by time and past disasters. The project replaces the obsolete underground



storm drainage systems by open cut and slip-lining of existing storm sewer lines to reduce flooding issues in the area. Scope of work includes surveying, subsurface utilities investigation, and engineering and construction inspection. Coordination requirements included utility service providers for electrical, telecommunications, natural gas, water and sewer. Huitt-Zollars prepared drawings, specifications, and an opinion of probable construction cost for each road. The drawings included plan view drawings, typical pavement sections, traffic control plans, and details. Huitt-Zollars also prepared a Project Manual for the project based on the City's standard construction contract including the writing of Special Provisions, as required.

Bid Phase Services included attending the pre-bid meeting, issuing addenda, attending bid opening, and preparing bid tabulations with recommendations for award. Construction Administration services were provided during the construction contract, including Construction Inspection and Materials Testing services. Huitt-Zollars and its sub consultants attended the preconstruction conference and monthly project progress meetings. They also monitored the project progress, provided weekly inspection and progress reports, and reviewed the contractor's monthly pay estimates, submittals, and Requests for Information (RFIs). Huitt-Zollars monitored and managed the activities of construction inspectors and the materials testing laboratory, reviewed lab test reports for conformity with technical specifications, reviewed submittals from the contractor, and prepared change orders. Huitt-Zollars participated in the substantial completion site visit, prepared a punch list of incomplete items, and conducted a final site visit. *Client Reference:* Michael Shannon, P.E., County Engineer, Galveston County, 409-770-5557.

FEMA - PA FUNDED BOLIVAR PENINSULA ROAD RECONSTRUCTION, Dickinson, Texas

Galveston County (County) contracted with Huitt-Zollars to provide design, bidding, and construction phase services for the repair and repaving of fifteen (15) asphalt streets on Bolivar Peninsula damaged by Hurricane Ike in September 2008. The repairs to the roads had previously been identified by the Federal Emergency Management Agency (FEMA) – Public Assistance as eligible for reimbursement. The County provided Huitt-Zollars with FEMA Project Worksheets (PW),



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which identified the roads to be repaired, the limits of the repairs, and the types of repairs authorized. FEMA also divided the repairs by street into Large PW projects and Small PW projects. For accounting purposes, all costs associated with the two different PW project types had to be kept separate. The limits of the Segment 2 repairs were in the Crystal Beach area, from North & South Tinkle Roads on the west to Moms Road on the east, inclusive, and included repairs to 42 roads.

The work included design of a 2-inch asphalt overlay and selective base repairs for the damaged roads. Field surveys were conducted to measure the lengths and widths of the existing roadways since there was some discrepancy concerning widths between the FEMA PW reports and Galveston County records. The existing roadway dimensions were essential to accurately to prepare construction drawings and estimate bid quantities. Huitt-Zollars prepared drawings, specifications, and an opinion of probable construction cost for each road. The drawings included plan view drawings, typical pavement sections, traffic control plans, and details. Huitt-Zollars also prepared a Project Manual for the project based on the City's standard construction contract and TXDOT's Standard Specifications for Construction and Maintenance of Highway Streets and Bridges, 2004, including the writing of Special Provisions, as required.

Bid Phase Services included attending the pre-bid meeting, issuing addenda, attending bid opening, and preparing bid tabulations with recommendations for award. Construction Administration services were provided during the construction contract, including Construction Inspection and Materials Testing services. Huitt-Zollars and its sub consultants attended the preconstruction conference and monthly project progress meetings. They also monitored the project progress, provided weekly inspection and progress reports, and reviewed the contractor's monthly pay estimates, submittals, and Requests for Information (RFIs). Huitt-Zollars monitored and managed the activities of construction inspectors and the materials testing laboratory, reviewed lab test reports for conformity with technical specifications, reviewed submittals from the contractor, and prepared change orders. Huitt-Zollars participated in the substantial completion site visit, prepared a punch list of incomplete items, and conducted a final site visit.

Client Reference: Michael Shannon, P.E., County Engineer, Galveston County, 409-770-5557.

FEMA DAMAGE ASSESSMENTS FOR MONTGOMERY COUNTY FOLLOWING HURRICANE HARVEY, FEDERAL EMERGENCY MANAGEMENT AGENCY, Montgomery County, Texas

Huitt-Zollars, as a consultant to Tetra Tech, is conducting FEMA SDE assessments of flood-damaged residences in Montgomery County, Texas. Within 24 hours of notice-to-proceed (NTP), Huitt-Zollars mobilized two assessment teams and conducted door to door assessments. The assessors prepared SDE using FEMA assessment forms.

Client Reference: Richard Box, Tetra Tech, 832-251-5175.



FEMA DAMAGE ASSESSMENTS FOR FORT BEND COUNTY FOLLOWING HURRICANE HARVEY, FEDERAL EMERGENCY MANAGEMENT AGENCY

Fort Bend County, Texas

Huitt-Zollars, as a consultant to Tetra Tech, is conducting FEMA SDE assessments of flood-damaged residences in Fort Bend County, Texas. Within 24 hours of notice-to-proceed (NTP), Huitt-Zollars mobilized two assessment teams and conducted door to door assessments. The assessors prepared SDE using FEMA assessment forms.

Client Reference: Richard Box, Tetra Tech, 832-251-5175.



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FEMA DAMAGE ASSESSMENTS FOR GALVESTON COUNTY IN SAN LEON FOLLOWING HURRICANE IKE, Galveston County, Texas

Huitt-Zollars worked with Galveston County and other consultants to prepare a plan for conducting the FEMA damage assessments. Within 24 hours of notice-to-proceed, Huitt-Zollars mobilized six two-man assessment teams. These teams first conducted a windshield survey of the disaster area to determine the magnitude of the assessment effort.

Following this survey, the teams then conducted door to door assessments of all residential and commercial properties within



the floodplain and coastal areas in the **San Leon area**. A total of 800 properties were assessed. Swift completion of this work was critical, as assessments had to be conducted because residents could not get their power restored to their homes until the reports had been filed with the City.

Client Reference: Sean Welch, Galveston County, Assistant Floodplain Administrator, 409-770-5557.

FEMA DAMAGE ASSESSMENTS FOR GALVESTON COUNTY IN BOLIVAR PENINSULA FOLLOWING HURRICANE IKE, Galveston County, Texas

Huitt-Zollars worked with Galveston County and other consultants to prepare a plan for conducting FEMA damage assessments. Within 24 hours of NTP, Huitt-Zollars mobilized six two-man assessment teams. These teams first conducted a windshield survey of the disaster area to determine the magnitude of the assessment effort. Following this survey, the teams then conducted door-to-door assessments of all residential and commercial properties within the floodplain and coastal areas in the **Bolivar Peninsula area**. A total of 1,200 properties were assessed. Swift completion of this work was critical,

as assessments had to be conducted because residents could not get their power restored to their homes until the reports had been filed with the County.

Client Reference: Sean Welch, Galveston County, Assistant Floodplain Administrator, 409-770-5557.

FEMA DAMAGE ASSESSMENTS FOR HARRIS COUNTY FOLLOWING TROPICAL STORM ALLISON

Harris County Flood Control District, Harris County, Texas

Following the record flooding caused by Tropical Storm Allison in June 2001, Huitt-Zollars was called upon by Harris County Flood Control District to assist it in its emergency response efforts. Within 24 hours of the event, Huitt-Zollars mobilized four assessment teams to inspect the condition of and assess the damages to over 50 miles of federally-assisted channels in Harris County, Texas.



The facilities inspected included Brays Bayou, White Oak Bayou, Vince Bayou, Little Vince Bayou, Sims Bayou and the Clear Lake Second Outlet Channel and Gated Structure. Detailed inspection reports with digital photographs documenting damage caused by the storm along with probable construction costs were prepared and submitted to Harris County Flood Control District within seven calendar days. These inspection reports supported HCFCD's preparation of Damage Survey Reports as required by the Federal Emergency Management Agency (FEMA). Huitt-Zollars later prepared construction documents to repair the damage from Tropical Storm Allison.

Client Reference: Jason Krahn, Harris County Flood Control District, 346-286-4000.



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FEMA-FUNDED FACILITY ASSESSMENTS AND IMPROVEMENTS TO COUNTY FACILITIES FOLLOWING HURRICANE IKE, Galveston County, Texas

Huitt-Zollars, Inc. was retained by Galveston County, Texas to provide architectural and mechanical, electrical and plumbing engineering services for the assessment and preparation of plans and specifications to repair flood damages to county facilities from Hurricane Ike. This project was partially funded by FEMA. These facilities, all located near the Galveston County Courthouse at 722 Moody on Galveston Island, included:

- Courthouse Annex First Floor
- Old North Jail First Floor
- North Jail Elevator Replacement
- Courthouse Annex Elevator Replacement
- South Jail / Parking Garage Elevator Replacement
- Records Storage Facility

The scope of work included removal and replacement of mechanical,

electrical and plumbing equipment (HVAC systems, lighting, restrooms, ductwork and elevators); improvements to restrooms to comply with current codes and accessibility standards; build-out for record storage areas and interior improvements and finishes to walls and floors.

Client Reference: Sean Welch, Galveston County, Assistant Floodplain Administrator, 409-770-5557.

FEMA DAMAGE ASSESSMENTS FOR CITY OF HOUSTON FOLLOWING TROPICAL STORM ALLISON, Houston, Texas

Following the record flooding caused by Tropical Storm Allison in June 2001, Huitt-Zollars was called upon by the City of Houston to assist it in its emergency response efforts. Within 48 hours of notice to proceed from the City of Houston, Huitt-Zollars mobilized emergency response teams to conduct flood damage assessments of residential areas within the City of Houston. Our teams inspected nearly 700 flood-damaged residences using the requirements of FEMA's Substantial Damage Estimator, documented the damage to the

structures and electronically prepared the data for submission to the City of Houston and FEMA. *Client Reference:* Showri Nandagiri, P.E., Former City of Houston City Engineer, 281-440-3924

FEDERAL EMERGENCY REPAIRS TO FLOOD CONTROL PROJECTS FOLLOWING HURRICANE IKE

U.S. Army Corps of Engineers, Galveston District, Texas

Emergency Repairs to White Oak Bayou: Following Hurricane Ike in September 2008, Huitt-Zollars conducted a damage assessment and prepared construction drawings, specifications and cost estimates to repair approximately four hundred fifty (450') feet of channel embankment on White Oak Bayou that had been damaged during Hurricane Ike. Huitt-Zollars performed a topographic survey to document the existing conditions, identify the repair area, and provide a baseline condition for estimating project unit quantities for bidding and constructing the repair work.

Huitt-Zollars prepared construction drawings and specifications for the repair of damaged area and made design submittals at the 65%, 90%, and 100% design milestones. The drawings and specifications identified the project area as well as concrete scour pad plan sections and details required for the repair. An MII cost estimate was prepared and submitted at the 90% and 100% submittals. The drawings, specifications and







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cost estimate were prepared in accordance with applicable USACE Technical Manuals, Criteria and Standards. Huitt-Zollars prepared a Design Documentation Report in accordance with ER 1110-2-1150 for the 90% and 100% submittals.

Based on engineering calculations by Huitt-Zollars, the weep holes and sand filter bedding originally identified in the Corps's Preliminary Design were determined to be unnecessary which significantly reduced the cost of the construction. Huitt-Zollars participated in Technical Reviews; an Over-the-Shoulder Review and a Biddability, Constructibility, Operability, and Environmental (BCOE) Review with members of the District's Project Team. Completed the project ahead of schedule.

Client Reference: Nancy Young, P.E., US Army Corps of Engineers, 409-766-3147.

Clear Creek Second Outlet Gate Structure Repairs: Again, after Hurricane Ike in September 2008, Huitt-Zollars conducted a damage assessment and prepared plans, specifications and cost estimates for repairs to the access road and Gated Structure at the Clear Creek Second Outlet in Seabrook, Texas. The road and structure sustained significant damage from Hurricane Ike.

Huitt-Zollars also prepared construction drawings and specifications for the reconstruction of the access road, repair and replacement of the handrails and walkway support system,



replacement of the upper and lower protective stem covers and replacement of the sanitary sewer tank. Design submittals were made at the 65%, 90%, and 100% milestones. The construction documents identified the project area as well as plan views, cross-sections, and details required for the repairs. An MII cost estimate was prepared and submitted with the 90% and 100% submittals. The drawings, specifications and cost estimate were prepared in accordance with applicable USACE Technical Manuals, Criteria and Standards. Huitt-Zollars prepared and submitted a Design Documentation Report in accordance with ER 1110-2-1150 for the 90% and 100% submittals. Huitt-Zollars participated in Technical Reviews; an Over-the-Shoulder Review and a Biddability, Constructability, Operability, and Environmental (BCOE) Review with members of the District's Project Team. The project was completed ahead of schedule. *Client Reference:* Nancy Young, P.E., US Army Corps of Engineers, 409-766-3147.

FEDERAL EMERGENCY REPAIRS TO GULF COAST JETTIES & THE TEXAS CITY DIKE FOLLOWING HURRICANES IKE AND DOLLY - U.S. Army Corps of Engineers, Galveston District

Huitt-Zollars conducted an aerial reconnaissance of nine jetties and the Texas City Dike along the Texas Gulf Coast. The first site (from north to south) included the two jetties at the Sabine Pass for the Sabine-Neches Waterway. The second site included the two jetties for Galveston Harbor. The third site included the Texas City Dike in Galveston Bay. The fourth site included the two jetties at Freeport Harbor. The fifth site includes the south jetty at Matagorda Bay. The sixth site included the two jetties at the Brazos Island Harbor near Brownsville, Texas. Huitt-Zollars established survey control at the base of each jetty and dike and obtained quality assurance cross-sections along the



jetties and dike to ascertain data obtained from both an aerial LiDAR and hydrographic surveys done on the jetties and dike.

Huitt-Zollars also prepared 35% design plans and specifications for the repair of damaged areas of the jetties and dike. Huitt-Zollars prepared a Request for Proposal (RFP) for the procurement of a MATOC Design-Build Contractor for the design and reconstruction of the jetties and the dike. An MII cost estimate was prepared and submitted with the 50%, Draft Final and Final submittals. The plans, RFP and cost

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estimate were prepared in accordance with applicable USACE Technical Manuals, Criteria and Standards. Huitt-Zollars prepared a Design Document Report in accordance with ER 1110-2-1150, Appendix D for the Draft Final and Final submittals. Huitt-Zollars also conducted a Value Engineering (VE) Workshop and prepared a VE report; conducted an Independent Technical Review; participated in an Over-the-Shoulder Review and a Biddability, Constructibility, Operability, and Environmental Review with members of the Galveston District's Project Team.

Client Reference: Willie Joe Honza, P.E., U.S. Army Corps of Engineers, 409-766-3161.

IMPROVEMENTS TO LA MARQUE AND TEXAS CITY PUMP STATIONS, Galveston County, Texas

Huitt-Zollars prepared construction drawings, technical specifications and cost estimates and performed construction phase services for replacing the Low-Flow Gate at the La Marque Pump Station, a part of the Texas City Hurricane-Flood Protection Project. The structure was originally designed and constructed by the US Army Corps of Engineers – Galveston District. The existing Low-Flow Gate had not been opened in some time and needed replacement prior to hurricane season.

Huitt-Zollars' scope of work included preparation of construction drawings, specifications and cost estimates for the selective



inspections and testing of the gate and pneumatic hoist. Huitt-Zollars completed the design work and construction was completed two weeks ahead of schedule and prior to the 2008 hurricane season that included Hurricane Ike.

Huitt-Zollars also prepared construction drawings and technical specifications for the fabrication of a new

Stop Log for the Low-Flow Gate at the Texas City Pump Station. Work consisted of the design and preparation of construction drawings and specifications for a new stainless-steel stop log to replace the bar screen in the low-flow channel of the pump station in case the gate failed. The scope of services included design of the low-flow stop log; preparation and review of construction documents; participation in preconstruction conferences; coordination, management and inspection of all construction activities; preparation of daily work reports; submittal review and routing; certification of invoices; and participation in substantial and final completion inspections.



Client Reference: Sean Welch, Galveston County, Assistant Floodplain Administrator, 409-770-5557.

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FEDERAL EMERGENCY REPAIRS TO THE ADDICKS & BARKER RESERVOIRS FLOODGATES FOLLOWING

HURRICANE IKE, *U.S. Army Corps of Engineers, Galveston District* Rehabilitation of the gates and outlet structures for Addicks and Barker Reservoirs in Houston, Texas following Hurricane Ike. Following Hurricane Ike, the US Army Corps of Engineers called on Huitt-Zollars to design the replacement of the non-functioning Gate #1 at Barker Reservoir; installation of new standby diesel generators at both Addicks and Barker to operate the gates during utility outage conditions; new buildings to house the generators, transfer switches, associated equipment and the installation of new electrical service conduit and wiring; additional lighting at the inlet and outlet structures to enhance security at the dams and facilitate maintenance operations; replacement of existing fiberglass walkway grating on the service bridges and intake structures with galvanized steel grating; and painting of the gates and support structures.

Huitt-Zollars also prepared evaluation reports for the mechanical and electrical components of the floodgates and operators. A Design Document Report and cost estimate were also prepared. Huitt-Zollars also reviewed submittals and shop drawings during construction.





Client Reference: Willie Joe Honza, P.E., US Army Corps of Engineers – Galveston District, 409-766-3161.

FTA FUNDED – CONSTRUCTION MANAGEMENT ON BUS TRANSIT MAINTENANCE SERVICE CENTER Fort Bend County, Texas

Huitt-Zollars provided full-time construction management and inspection services for the construction of an extension of approximately 1,900 linear feet of Bamore Road with a major culvert crossing, utilities and a new Bus Transit Maintenance Service Center for the Fort Bend County Transit Authority. The Maintenance Service Center includes: 18,000 square feet Administration Facility; 29,000 square feet Maintenance Facility; Fuel Station Building; 6,000 sf Wash Station Building; Fuel Island Canopy; two 20,000 square feet Bus Parking Canopies; associated



Parking; Sitework; Lighting; Emergency Generator; Mechanical Yards, Security and Landscaping.

Huitt-Zollars performed a comprehensive constructability review, conducted bidding services, negotiated with the Low Bidder, conducted the Pre-Construction meeting and provided full-time, on-site personnel to make observations of the work in progress and provided daily work reports to the Client; provided daily photos of the progress of the work; provided consultation and advice to the Client during construction; prepared biweekly SW3P environmental inspections and daily barricade inspections; coordinated with the UPRR and private utility relocations; received and logged the status of submittals/shop drawings from the Contractor; verified the work described in the submittals was incorporated into the project; received and logged the status of the Contractor's materials testing schedule to verify that quality assurance sampling and testing of subgrade, embankment and concrete was performed according to the contract; managed and scheduled the Owner's oversight testing of materials using an independent laboratory; verified that any work represented by a failing test report was reworked for acceptance or obtained the Owner's disposition; attended weekly progress meetings with the Contractor's to review actual progress and to review the two-week look ahead schedule; monitored the contractor's



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operations and production to determine that the materials furnished and incorporated into the project were in general conformance with the drawings and specifications; reviewed and made comments on change orders for execution by the Contractor and Owner; reviewed the contractor's monthly construction estimate to verify proper progress was being paid for the work completed; established and maintained files including contracts, drawings, specifications, correspondence, RFI's, submittals, shop drawings, change orders, schedules, and other documents; provide a final Punch List of construction items and monitored changes in the plans to be included in the final as-built plans.

Client Reference: Perri D'Armond, Director Public Transportation, Fort Bend County, 281-633-7433.

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Description of Work Performance

Proof of Meeting Schedules and Budgets

Evidence of our proven ability to provide our services within the timeframe and budget established during negotiations is shown on the chart below:

HUITT-ZOLLARS' COST AND SCHEDULE PERFORMANCE										
Project Name	Owner	Huitt-Zollars' Estimate	Bid Amount	Variance	Within Owner's Budget w/ Contingency	Design Schedule (Calendar Days)	Actual Completion (Calendar Days)	Within Owner's Schedule		
Slip Lining of Sugar Creek Drive Culverts	City of Sugar Land	\$281,850.00	\$226,125.00	-24.6%	YES	60	60	YES		
University Boulevard South	City of Sugar Land	\$20,100,000.00	\$19,500,000.00	-3.1%	YES	325	325	YES		
Robinson Bayou Bioengineering Bank Stabilization	City of League City	\$1,650,000.00	\$1,575,000.00	-4.8%	YES	210	210	YES		
Pedestrian Plaza	Fort Bend County	\$775,000.00	\$798,000.00	2.9%	YES	180	180	YES		
Memorial Park at the Brazos River	City of Sugar Land	\$2,098,000.00	\$1,946,000,00	-7.8%	YES	190	190	YES		
Falcon Boulevard	Fort Bend County	\$2,097,000.00	\$2,066,000.00	-1.5%	YES	240	240	YES		
Improvements to the Texas City Hurricane Flood Protection Levee	Galveston County	\$55,950.00	\$50,800.00	-10.1%	YES	45	45	YES		
Water and Wastewater Improvements along FM 518 and Cullen Boulevard	City of Pearland	\$900,000.00	\$785,000.00	-14.6%	YES	195	195	YES		
Water and Wastewater Improvements along Pearland Parkway	City of Pearland	\$93,500.00	\$96,122.00	2.7%	YES	120	120	YES		
Big League Dreams Parkway & Utilities	City of League City	\$1,804,000.00	\$1,765,000.00	-2%	YES	125	125	YES		
Reconstruction of Valley Forest Drive	City of Missouri City	\$892,000.00	\$925,000.00	4%	YES	110	110	YES		

QUALITY OF WORK PRODUCT

An ISO 9001:2015 compliant firm, Huitt-Zollars' Quality Management Program serves as the foundation for continuous performance improvement in all aspects of our work. We strive to meet the expectations of our Clients while striving for continuous improvement of our project delivery.

We have established project delivery processes with include Project Work Plans, Quality Plans, Discipline-specific and Interdisciplinary Design Checklists, internal quality audits, quality controls and constructability reviews of deliverables prior to submittal to the City.

Huitt-Zollars' most recent TXGLO CDBG-DR PROJECTS include:

- Engineering Application and Design services for TxGLO CDBG-MIT for Dickinson Bayou Hughes Road By-Pass Project for City of Dickinson. <u>Worked with Public Management, Inc. on this application & project.</u>
- Engineering Application and Design services for TxGLO CDGB-DR Tributary to Gum Bayou Widening Project for City of Dickinson. <u>Worked with Public Management, Inc.</u> on this application & project.
- Engineering Application and Design services for TxGLO CDGB-DR Pin Oak Drive Drainage Improvements for City of Dickinson. <u>Worked with Public Management, Inc.</u> on this application & project.
- Engineering Application and Drainage Design services for TxGLO CDGB-DR Nicholstone Improvements Project for City of Dickinson. Worked with Public Management, Inc. on this application & project.
- Design services for TxGLO CDGB-DR Beaumont Place Drainage Improvements Project for Harris County
- Design services for FEMA HMGP Drainage Improvements on 9th and 11th Streets for Galveston County
- Design services for TxGLO CDGB-DR Fortuna Drive Drainage Project for City of Katy
- Design services for FEMA HMGP Bacliff Villas Drainage Improvements Project for Galveston County
- Numerous Design assignments on federal channels throughout Harris County

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List of Past Local Government Clients

DATE	PROJECT NAME	PROJECT TYPE	CONTRACTING MUNICIPALITY	MUNICIPALITY CONTACT	CONSTRUCTION COST
On going	Drainage Planning; Plat, Subdivision and Building Code Reviews and Engineering Services following Hurricane Harvey	Drainage, Roadways, Facilities, Plat Reviews	City of Dickinson	Theo Melancon City Manager 281-337-6204	\$60,000,000
2019	Buffalo Bayou Drainage Study Hydraulic Evaluation of Bridge Crossings and High Flow Bypasses from State Highway 6 To Congress Street Bridge In Downtown Houston	Drainage	Harris County Flood Control District	Nasiha Alibegovic, P.E., CFM Project Manager 346-286-4000	\$500,000 (Fee)
2021	FEMA-HMGP 9th and 11th Avenues Drainage Restoration in Bacliff	Drainage	Galveston County	Michael Shannon, P.E. County Engineer 409-770-5557	\$500,000 (Fee)
2021	FEMA-HMGP Drainage Improvements in Bacliff Villas Subdivision	Drainage	Galveston County	Michael Shannon, P.E. County Engineer 409-770-5557	\$500,000 (Fee)
On-going	Pre-Engineering of Storm Water Capital Improvement Projects	Drainage	City of Houston	Paresh Lad, P.E. Project Manager 832-395-2690	\$1,500,000
2018	Linkwood Subdivision Paving and Drainage	Street, Drainage, Water and Wastewater	City of Houston	Mohammed Sabzevari, PE Managing Engineer-PWE 832-395-2287	\$11,000,000
On going	Hillcroft Paving and Drainage	Street, Drainage, Water and Wastewater	City of Houston	Mohammed Sabzevari, PE Managing Engineer-PWE 832-395-2287	\$12,000,000
On going	South Lockwood Paving and Drainage	Street, Drainage, Water and Wastewater	City of Houston	Mohammed Sabzevari, PE Managing Engineer-PWE 832-395-2287	\$9,700,000
2016	Robinson Bayou Bank Stabilization	Drainage and Pedestrian Bridge	City of League City	Jack Murphy, PE, CFM Senior Drainage Engineer 281-554-1430	\$2,500,000
2018	Brazos River Bank Erosion Study following Hurricane Harvey	Drainage	City of Sugar Land	Chris Steubing, P.E., CFM City of Sugar Land 281-275-2700	\$150,000 (Fee)
2018	Brazos River Bank Erosion Study following Hurricane Harvey	Drainage	City of Richmond	Howard Christian Director of Public Works 281-232-6871	\$25,000 (Fee)



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References •

City of Dickinson

4403 Highway 3 Dickinson, Texas 77539 Theo Melancon **City Manager** 281-337-6204 e-mail: tmelancon@ci.dickinson.tx.us Relevant Projects: FEMA PA Design and Construction Management Experience on Drainage and Facility Projects and Significant CDBG-DR and CDBG-MIT Planning and Design Experience.

Galveston County Engineering

722 Moody, 1st Floor Galveston County, Texas 77550 Michael Shannon, P.E. **County Engineer** 409-770-5557 e-mail: Michael.Shannon@co.galveston.tx.us Relevant Projects: FEMA Damage Assessments and HMGP Design Experience on Drainage and Facility Projects.

Public Management, Inc.

15355 Vantage Parkway West, Suite 108 Houston, Texas 77032 Patrick K. Wiltshire President 281-592-0439, ext. 28 e-mail: pwiltshire@publicmgt.com

Fort Bend County Drainage District

1124 Blume Road Richmond, Texas 77471 Mark Vogler, P.E. General Manager and Chief Engineer 281-342-2863 e-mail: Mark.Vogler@fortbendcountytx.gov Relevant Projects: CDBG-MIT Planning Experience and Design Experience on Roadways and Drainage.

City of Sugar Land 2700 Town Center Boulevard North

Sugar Land, Texas 77478 Chris Steubing, P.E., CFM Assistant City Manager 281-275-2276 e-mail: csteubing@sugarlandtx.gov Relevant Projects: CDBG-MIT Planning Experience and Design Experience on Roadways and Drainage.

Public Management, Inc.









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□ Scope the Service Provider Proposes to Perform

Huitt-Zollars has selected two (2) local small, minority and woman-owned businesses to provide environmental and geotechnical engineering services for your work. Wild Associates, Inc. is a woman-owned environmental firm with substantial relevant experience and Geotech Engineering and Testing is a minority-owned geotechnical engineering and testing firm. We have worked with these firms on numerous other similar projects and can attest to their quality of services. All other services shall be provided with Huitt-Zollars' local, in-house personnel.

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□ Capacity To Perform

Organizational Chart

Below you will find the project team presented in an organizational chart. Our proposed team's organization structure has been specifically crafted in response to the best practices and lessons learned from our handson experience with CDBG-DR and -MIT projects. **Huitt-Zollars'** team is organized to provide you Top Service with **Greg Wine, P.E., LEED AP**, as Project Director; **Mike Tehrani, P.E., CFM, PMP**, as Project Manager and **Bob Powell, P.E.**, as Lead Civil Engineer plus dedicated oversight of our quality control manager, **Frank Andrews**, **P.E.** Resumes immediately following this page.



* All names listed on this organization chart are employees of Huitt-Zollars, Inc. unless otherwise noted.

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Resumes of Staff

MICHAEL TEHRANI, PE, CFM, PMP

Project Manager

Tehrani has more than 20 years of relevant hydraulic and hydrologic (H&H) investigations, storm water quality and detention, modeling, studies and design project experience. His experience includes drainage master plans, watershed studies, sewer systems, floodplain mitigation and detention ponds. He is well-versed in hydraulic modeling of watersheds, scour studies, sediment transport and storm water drainage. Tehrani has considerable experience dealing with the Federal Emergency Management Agency (FEMA) on Letters of Map Revisions for FIRM maps. He is experienced in Geographic Information Systems (GIS) data bases, sediment transport, storm water quality management practices and open channel analysis and has extensive drainage experience. Tehrani is a Certified Floodplain Manager and has completed the innovative drainage designs for numerous streets, roadway and flood control projects. Tehrani is proficient with both Innovyze InfoWorks SD 2D Version 12.5 and ID XP SWMM 2012 Version 14.10. He has been certified by the Project Management Institute as a Project Management Professional.

RELEVANT PROJECT EXPERIENCE

- City of Dickinson CDBG-MIT Hughes Road, Dickinson, Texas
- CDBG-Disaster Recovery Project Pin Oak Drive, Drainage Improvements, Dickinson, Texas
- CDBG-Disaster Recovery Project Tributary to Gum Bayou Widening, Dickinson, Texas
- CDBG-Disaster Recovery Project Nicholstone, Drainage Improvements, Dickinson, Texas
- FEMA HMP FUNDED Galveston County 9th and 11th Street Drainage Galveston, Texas
- FEMA HMP FUNDED Galveston County Bacliff Villas Subdivision Drainage Restoration Bacliff, Texas
- FEMA Post Storm Damage Assessment, (Following Hurricane Harvey), Galveston County, Texas
- FEMA Residential Substantial Damage Estimates in San Leon following Hurricane Ike Galveston County, Texas
- FEMA Residential Substantial Damage Estimates on Bolivar Peninsula following Hurricane Ike, -Galveston County, Texas
- FEMA Certification of the Texas City Hurricane-Flood Protection Levee Galveston County, Texas
- Erosion Protection and Improvements, Clear Lake Second Outlet Channel and Gated Structure, Harris County Flood Control District – Harris County, Texas
- Cedar Hill State Park Flood Damage Repairs, Texas Parks & Wildlife Department
- Erosion Repair to the Clear Lake Second Outlet Channel and Gated Structure due to Hurricane Ike, US Army Corps of Engineers -
- Pre-Engineering Services of Storm Water Drainage Improvements, City of Houston, Houston, Texas
- Bank Stabilization of Robinson Bayou, City of League City, League City, Texas

EDUCATION

2001 Master of Science, Engineering (Hydraulics), University of Houston

1994 Bachelor of Science, Civil Engineering, Azad University

REGISTRATION

Professional Engineer: Civil/Texas/#94931 Certified Floodplain Manager (CFM)



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GREGORY R. WINE, PE, LEED AP

Project Director

For more than the past 26 years, Wine has been responsible for the management, quality assurance/ quality control, planning, design, and construction management of a broad range of municipal projects. He is well versed in low impact site design of public agency campuses and has led the needs assessment, facility condition assessments, space planning, programming and design of numerous local municipal projects. In addition, Wine has hands-on, multi-discipline project experience on pump and lift stations; coastal engineering projects involving wetlands creation and jetties; erosion control protection; levees, dams, and hydraulic structures; streets and roads; dredging operations; pilings, foundations, and retaining walls; and storm water drainage systems, water lines, and sanitary sewer lines. He is a graduate of the U.S. Army Corps of Engineers Coastal Engineering Research Center Shore Protection Course and Civil Works Construction Cost Engineering Course as well as a two-week Concrete Design Course conducted by the Bureau of Reclamation.

RELEVANT PROJECT EXPERIENCE

FEMA Post Damage Drainage Improvements for the City of Dickinson following Hurricane Harvey - Dickinson, Texas

Wine, as Principal in Charge. Huitt-Zollars is currently providing comprehensive planning and engineering services to the City of Dickinson, Texas to address its drainage issues following Hurricane Harvey in 2017. The project area includes Dickinson Bayou within the City's limits and its tributaries, which includes Gum Bayou, Tributary to Gum Bayou, Benson Bayou, Magnolia Bayou, Borden's Gully and Unnamed East Branch. The first phase of the project includes identifying areas experiencing frequent flooding from 5-year to 10-year rainfall events. We conducted site visits, and reviewed the hydrology and hydraulics for the sub-watershed and developed feasible alternatives to address the flooding problems. In association with the City's staff, we are conducting public meetings for each sub-watershed to present the feasible alternatives and to gain public insight, input and buy in. Following the public meetings, Huitt-Zollars will provide engineering design and prepare detailed plans and specifications for the proposed improvements. In addition, Huitt-Zollars will provide H&H design support and prepare cost benefit analyses in support of FEMA's Section 406 and 404 Hazardous Mitigation Grants, NOIs and Community Development Block Grants – Disaster Recovery administered by the Texas Department of Emergency Management. Huitt-Zollars also prepared construction documents for the desilting of 15 miles of roadside ditches and culverts and clearing and grubbing and hydromulch seeding of 3 miles of tributaries. Huitt-Zollars is also providing construction management services for this work and maintaining quantities and site location documentation for submission to FEMA for Public Assistance grants. In addition, Huitt-Zollars also prepared Section 406 Hazardous Mitigation grant documentation to address flooding at the City of Dickinson's Historic Railroad Depot Museum. We also prepared construction documents (plans and specifications) to repair Hurricane Harvey damage to the roof, electrical and mechanical systems at the City of Dickson's Fire Station No. 1

FEMA Post Damage Assessments for Galveston County following Hurricane Harvey, Galveston County, Texas Project Manager assisted Galveston County in conducting damage assessments for the City's facilities and infrastructure. During a four-week period, the assessment teams inspected 197 county roadways totaling nearly 85 miles in length, 32 county facilities, one bridge, two observation decks in the City's parks and one lift station; prepared damage assessment reports and cost estimates; and provided quality control.

FEMA Damage Assessments for Galveston County in San Leon following Hurricane Ike - Galveston County, Texas

Wine was the Principal in Charge for conducting FEMA damage assessments in San Leon of Galveston County. Within 24 hours of notice-to-proceed, Huitt-Zollars mobilized six two-man damage assessment teams. These teams first conducted a windshield survey of the disaster area to determine the magnitude of the assessment effort. Following this survey, the teams then conducted door to door assessments of all residential and commercial properties within the floodplain and coastal areas in the San Leon area. A total of 800 properties



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were assessed. Swift completion of this work was critical as assessments had to be conducted because residents could not get their power restored to their homes until the reports had been filed with the City.

FEMA Damage Assessments for Galveston County on Bolivar Peninsula following Hurricane Ike - Galveston County, Texas

Wine was the Principal in Charge for conducting FEMA damage assessments on Bolivar Peninsula of Galveston County. Within 24 hours of notice to proceed, Huitt-Zollars mobilized eight two-man damage assessment teams. These teams first conducted a windshield survey of the disaster area to determine the magnitude of the assessment effort. Following this survey, the teams then conducted door to door assessments of all residential and commercial properties within the floodplain and coastal areas in the Bolivar Peninsula area. A total of 1,200 properties were assessed. Swift completion of this work was critical as assessments had to be conducted because residents could not get their power restored to their homes until the reports had been filed with the City.

FEMA Damage Assessments for Montgomery County following Hurricane Harvey – Montgomery County, Texas

Wine was the Principal in Charge for conducting FEMA damage assessments on over 250 residential and commercial properties within the floodplain area of Spring Creek in Montgomery County, Texas.

FEMA Damage Assessments for Fort Bend County following Hurricane Harvey – Fort Bend County, Texas Wine was the Principal in Charge for conducting FEMA damage assessments on over 300 residential and commercial properties within the floodplain area of the Brazos River in Fort Bend County, Texas.

FEMA Damage Assessments for Federal Channels in Harris County for the Harris County Flood Control District following Tropical Storm Allison – Houston, Texas

Wine was the Project Manager for conducting FEMA damage assessments on over 50 miles of federallyconstructed channels in Harris County, Texas. The facilities inspected included Brays Bayou, White Oak Bayou, Vince Bayou, Little Vince Bayou, Sims Bayou and the Clear Lake Second Outlet Channel and Gated Structure. Detailed inspection reports with digital photographs documenting damage caused by the storm along with probable construction costs were prepared and submitted to Harris County Flood Control District within seven calendar days. These inspection reports supported HCFCD's preparation of Damage Survey Reports as required by the Federal Emergency Management Agency (FEMA). Huitt-Zollars later prepared construction documents to repair the damage from Tropical Storm Allison.

FEMA Damage Assessments for City of Houston following Tropical Storm Allison – Houston, Texas

Wine was the Project Manager for conducting FEMA damage assessments on over 700 flood-damaged residences using the requirements of FEMA's Substantial Damage Estimator, documented the damage to the structures and electronically prepared the data for submission to the City of Houston and FEMA.

EDUCATION

1989 Master of Engineering, Structures, University of Florida

1979 Bachelor of Science, United States Military Academy, West Point

REGISTRATION

Professional Engineer: Civil/Texas /#73646

ORGANIZATION

Leadership in Energy and Environmental Design (LEED) Certification by the U.S. Green Building Council
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FRANK ANDREWS, PE

QA/QC Manager

Andrews has more than 40 plus years of experience in development of major transit and transportation engineering programs. His experience demonstrates the ability to manage all functions of projects and programs. He managed METRO's Real Estate Department. He also prepared budgets for operating needs and capital improvement programs, developed contract specifications for design and construction projects, performed quality assurance/ quality control and constructability reviews, and developed technical standards and criteria. Andrews acted as liaison with the private and public utility companies including establishment of schedules, budget, and policy for support of capital programs. He also managed, supervised, and oversaw the development of relocation and reimbursement agreements with private utility companies.

RELEVANT PROJECT EXPERIENCE

- City of Dickinson CDBG-MIT Hughes Road, Dickinson, Texas
- Design Services for Structural and Drainage Improvements to Dickinson's Public Library, Dickinson, Texas
- FEMA Post Storm Damage Assessment, (Following Hurricane Harvey), Galveston County, Texas
- FEMA Post Storm Damage Assessment, (Following Hurricane Harvey), Dickinson, Texas
- CDBG-Disaster Recovery Project Pin Oak Drive, Drainage Improvements, Dickinson, Texas
- CDBG-Disaster Recovery Project Tributary to Gum Bayou Widening, Dickinson, Texas
- CDBG-Disaster Recovery Project Nicholstone, Drainage Improvements, Dickinson, Texas
- FEMA PA & HMP Funded Wayne Johnson Community Center, Galveston County, Texas
- FEMA PA & HMP Funded Bayshore Park Boat Ramp Galveston County, Texas
- FEMA HMP FUNDED Galveston County, 9th and 11th Street Drainage, Galveston, Texas
- FEMA HMP FUNDED Galveston County, Bacliff Villas Subdivision Drainage Restoration, Bacliff, Texas
- FEMA PA Funded Replacement of Paul Hopkins Park Bridge, Galveston County, Texas
- Preparation of FEMA HMG Application Historic Railroad Museum Dickinson, Texas
- Brays Bayou Erosion Repairs, Harris County, Texas
- Gulf Coast Water Authority, Operations Center, Texas City, Texas
- 5910 Navigation Boulevard, Harris County, Texas
- Fort Bend County 2017 Mobility Bond Program, Old Richmond Road Project, Houston, Texas

EDUCATION

1997 Bachelor of Science, Civil Engineering, Georgia Tech University

REGISTRATION Professional Engineer: Civil/Texas/#82200

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KYLE BYRNE , RA, NCARB

Lead Architect

Byrne has led many multi-disciplinary design teams to deliver projects meeting client goals. His professional experience includes needs assessment, space planning, programming and design of various public works facilities. He has operated on a variety of scales and market sectors, from five-thousand square foot government office renovations to 5.4 million square foot mixed-use developments. His flexibility and ability to adapt has consistently led to success and client satisfaction.

RELEVANT PROJECT EXPERIENCE

- Architectural Design Services for Texas Department of Transportation (TxDOT) Corpus Christi D Headquarters, Texas
- Architectural Design Services for City of Baytown Operations Building, Baytown, Texas
- Architectural Design Services for the Texas Facilities Commission on the Renovation of the South Gessner Driver's License Facility, Houston, Texas
- Architectural Design Services for the Fort Bend County Precinct 3 North Library, Fulshear, Texas
- Architectural Design Services for the City Hall and Police Department Building, Fulshear, Texas
- Architectural Design Services for the TxDOT-Lockhart Maintenance Facility, Lockhart, Texas
- Architectural Design Services for the TxDOT La Marque Area Engineering and Maintenance Facility, Texas
- Architectural Design Services for the City of La Porte Public Works Service Center, La Porte, Texas
- Architectural Design Services for the METRO Work Authorization No. 2 Polk Bus Operating Facility, Harris County, Texas

EDUCATION

2014 Bachelor of Architecture, Rice University

REGISTRATION

Registered Architect: Architecture/Texas/#26080

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WILLIAM KRASNER, PE, LEED AP

Mechanical Engineer

Krasner has been with Huitt-Zollars, Inc. for more than 4 years and his work includes the engineering design, specification, and construction administration of HVAC systems, the buildings' energy analysis, and field investigation. He has designed a wide variety of systems including central plants, large air handling units, energy recovery, laboratory, and exhaust systems. Krasner has extensive expertise in chilled/hot water systems, DX split and packaged systems, heat exchange, and VRV systems. He is a licensed engineer in Texas

RELEVANT PROJECT EXPERIENCE

- FEMA Post Damage Assessments for Galveston County (following Hurricane Harvey), Galveston County, Texas
- Need Assessment and Facility Condition Assessment, Family Law Center, Harris County, Texas
- Facility Condition Assessment, City-wide facilities, City of Sugar Land, Texas
- Facility Condition Assessment and Building Feasibility Study, City of Huntsville, Texas
- Facility Condition Assessment, Mental Health Mental Retardation Authority Office Building and Community Center, Harris County, Texas
- Facility Condition Assessment, Administration Building, Harris County Flood Control District, Houston, Texas
- Camp Hubbard Administration Building, Texas Department of Transportation
- Chilled Water System and Condenser Water System Retro- Commissioning, Lone Star College System, Harris County, Texas
- Computer Classrooms HVAC Heat Load Analysis Study, North Harris Campus, Texas, North Harris Campus, Texas

EDUCATION

- 2011 Master of Science, Engineering Management, University of Austin at Austin
- 1991 Bachelor of Science, Mechanical Engineering, Rice University

REGISTRATION

Professional Engineer: Mechanical/Texas/#93782

ORGANIZATION

Leadership in Energy and Environmental Design (LEED) Certification by the U.S. Green Building Council

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PAUL ROBERTS, CIPE

Plumbing Designer

Roberts has 40 years of experience in the engineering design field of plumbing, fire protection, process piping, steam systems, fueling, irrigation, pumping stations, lift stations, well/hydro-pneumatic tank water systems and site utility systems. His project responsibilities include project management, department supervision, project engineer, studies, contract document preparation, and a variety of engineering design roles on numerous facilities.

RELEVANT PROJECT EXPERIENCE

- Plumbing Design Services on the Sheriff Office's Administration Building, Harris County, Texas
- Plumbing Design Services on the New East EZ Tag Store, Harris County toll Road Authority, Harris County, Texas
- Plumbing Design Services on the Coastal Water Authority, Luce Bayou Interbasin Transfer Project Canal Maintenance Facility, Dayton, Texas
- Plumbing Design Services on the TxDOT Area Architectural & Engineering IDIQ, Maintenance Facility, Angleton, Texas
- Plumbing Design Services on the Gulf Coast Water Authority Addition and Renovation to Thomas Mackey Water Treatment Plant, Texas City, Texas
- Plumbing Design Services on the Gulf Coast Water Authority Operations Center, Texas City, Texas
- Plumbing Design Services on the City of Pearland Orange Street Service Center, Pearland, Texas
- Plumbing Design Services on the TxDOT La Marque Area Engineering and Maintenance Facility, La Marque, Texas
- Plumbing Design Services on the Fort Bend County, Fulshear Library, Fort Bend County, Texas
- Plumbing Design Services on the City of Port Arthur's Transit Maintenance Building and Charging Depot Expansion, Port Arthur, Texas

EDUCATION Undergraduate Studies

REGISTRATION 1987/Certified Plumbing Designer

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DAVID MEIER, P.E., FPE, LEED AP

Mechanical Engineer/Fire Protection

With 30 years of practicing mechanical engineering, David has been a principal-in-charge and responsible for management, design and construction administration for large design projects in Texas and Colorado. As a mechanical engineer, David has extensive experience in fire protection for new construction and renovation of existing buildings. He has conducted numerous fire protection evaluations, assessment and designs for commercial, governmental buildings, distribution warehouse and distribution buildings, aircraft hangars and aircraft assembly plants. David will be responsible for providing fire protection consultation early in the project design, provide engineering support throughout the project and provide final designs for the installation of fire sprinkler systems for each of the buildings.

RELEVANT PROJECT EXPERIENCE

- Public Storage Fire Protection and Sprinkler Designs Houston, Texas
- Museo Plaza Medical Office Building, Houston, Texas
- Dickens County Courthouse Renovations Dickens County, Texas
- Star Telegram Building Renovation Fort Worth, Texas
- Frost Tower, Fire Sprinkler Design and Consultation Fort Worth, Texas
- Fire protection, new Trinity River College Campus Downtown Campus, Fort Worth, Texas
- TxDOT Abilene Headquarters HVAC and Fuel Facilities Abilene, Texas
- Tarrant County Office Renovations Fire Protection Designs Fort Worth, Texas

EDUCATION

1989 – Bachelor of Science, Mechanical Engineering, University of New Mexico, Albuquerque, New Mexico 2008 – Fire Technology Certification Program, Oklahoma State University, Stillwater, Oklahoma

REGISTRATION

Professional Engineer: Mechanical-Fire Protection/Texas/#90657 Certified Plumbing Designer, ASPE 2000/CIPE/CPD #1-17566 LEED AP USGBC, 2003

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WILLIAM WALLACE, PE, LEED AP

Structural Engineer

Wallace has more than 38 years of experience as a Structural Engineer. He has been involved in the design of many highly complex structures for flood control and soil and water conservation construction programs for the US Army Corps of Engineers (USACE) and the Natural Resources Conservation Service (NRCS). Projects have included reinforced concrete hydraulic structures such as trapezoidal channel paving, rectangular channels, impact basins, drop structures, retaining walls, and reinforced concrete for principal and auxiliary spillways of lakes and dams. Wallace provided the structural design or provided peer reviews of projects where the objectives of the project was to design modifications to dams and their appurtenant structures to mitigate risks related to dam safety concerns; and to meet current regulations and standards as provided by Conservation Districts, NRCS, USACE, and various Departments of Water Resources.

RELEVANT PROJECT EXPERIENCE

- General Services Administration (GSA) Mickey Leland Federal Building Design-Build RFP, Houston, Texas
- Assessments of 24 Historic Wood-Framed Warehouse, Fort Bliss, Texas
- GSA USGS Initial Space Alterations, Fort Worth, Texas
- Corpus Christi Border Patrol Station, Corpus Christi, Texas
- City of Denton for the Denton Solid Waste for the Administration Building Alterations, Denton, Texas
- R&D Facility, Building G, WEIR SPM, Fort Worth, Texas
- City of Dallas for the Southeast Service Center, Dallas, Texas
- Soldier Service Center, Fort Hood, Texas
- Red River Army Depot Maneuver Systems Sustainment Center, Texarkana, Texas
- GSA IDIQ for A-E Services in Support of GSA Region 7, Zone 2, Fort Worth, Texas

EDUCATION

1982 Master of Science, Civil Engineering (Structures), University of Texas at Arlington 1978 Bachelor of Science, Civil Engineering, University of Texas at Arlington

REGISTRATION

Professional Engineer: Structural/Texas/#59641 Structural Engineering Certification Board (SECB) No. 2158/2008 NCEES Model Law Structural Engineer (MLSE) 2014

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SCOTT PARMA, PE, LEED AP

Electrical Engineer

Parma's engineering experience includes power distribution, electrical systems analysis, system planning, electrical system design, and construction administration. He has completed a wide array of facilities projects in the utility, transportation, municipal, infrastructure, and commercial sectors of construction. His main expertise is in medium-and low-voltage power systems design and analysis. He also has experience in lighting, telecommunications, and fire alarm system design.

RELEVANT PROJECT EXPERIENCE

- Design Electrical Services for R & D Facility, Weir SPM, Fort Worth, Texas
- Design Electrical Services for North Texas Municipal Water District, Environmental Laboratory Facility, Wylie, Texas
- Design Electrical Services for the Upgrade HVAC and Fire Alarm Systems, Fritz G. Lanham Building, Fort Worth, Texas
- Design Electrical Services for the Transit Operations and Maintenance Building, Denton County Transit Authority, Denton County, Texas
- Design Electrical Services for the Victor Valley Transit Authority, Administration, Operations and Maintenance Facility, Hesperia, California
- Design Electrical Services for the James Avenue Service Center, Fort Worth, Texas
- Design Electrical Services for the Northwest Service Center, Dallas, Texas
- Design Electrical Services for the University of Oklahoma Transportation Operations Center, Norman, Oklahoma
- Design Electrical Services for the Dallas Area Rapid Transit: Northwest Rail Operations Facility, Dallas, Texas
- Design Electrical Services for the Tarrant County College District, Fort Worth Opportunity Center, Fort Worth, Texas
- Design Electrical Services for the Texas Christian University Worth Hills Village, Fort Worth, Texas
- Design Electrical Services for the GSA Midland Odessa Arc Flash Study, Midland, Texas

EDUCATION

1981 Bachelor of Science, Electrical Engineering, Texas A&M University

REGISTRATION

Professional Engineer: Electrical/Texas/#75690

ORGANIZATION LEED Accredited Professional

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CARLOS TORRES III, PE

Electrical Engineer

Torres' HVAC experience consists of chillers and cooling towers, ground-source heat pumps, packaged rooftop systems, computer room systems and other HVAC systems. Torres' design engineering experience also includes utility and lighting design; electrical systems analysis; facilities electrical design including lighting, power, communication, fire alarm, security; and grounding using AutoCAD and REVIT.

RELEVANT PROJECT EXPERIENCE

- Design Services for FEMA Post Damage Assessments for Galveston County (following Hurricane Harvey), Galveston County, Texas
- Design Services for FEMA Damage Assessments for Montgomery County following Hurricane Harvey Montgomery County, Texas
- Design Services for FEMA Damage Assessments for Fort Bend County following Hurricane Harvey Fort Bend County, Texas
- Design Service for the Cedar Hill State Park Flood Damage Repairs, Texas Parks & Wildlife Department, Texas
- Design Electrical Services Renovation of Mustang Island State Park, Texas Parks & Wildlife Department, Corpus Christi, Texas
- Design Electrical Services for Texas Department of Transportation for Camp Hubbard Parking Lot Improvements, Texas
- Design Electrical Services for Texas Facilities Commission for the 5th Floor Building 6 Camp Hubbard Renovation, Austin, Texas
- Design Electrical Services for the Texas Department of Transportation for Roof Replacements at Six TxDOT Buildings, Texas
- Design Electrical Services for the Lone Star College System for the Computer Classroom HVAC Analysis, Harris County, Texas
- Design Electrical Services for the University of Houston for the Intramural Field Complex Development, Houston, Texas
- Design Electrical Services for the University of Houston for the Clear Lake Campus Sports Fields, Houston, Texas
- Design Electrical Services for the City of Stafford Police Department Facilities, Stafford, Texas

EDUCATION

2013 Bachelor of Science, Architectural-Engineering, Texas A&M University @ Kingsville

REGISTRATION

Professional Engineer: Electrical/Texas / #141920

ENGINEERING, ARCHITECTURAL AND SURVEYING SERVICES FOR TEXAS GENERAL LAND OFFICE'S COMMUNITY DEVELOPMENT BLOCK GRANT - MITIGATION REGIONAL METHOD OF DISTRIBUTION PROGRAM

JEFFREY HOLBA, RLA, ASLA

Landscape Architect

Holba is a Landscape Architect with Huitt-Zollars. His past project experience ranges from master planning and visioning of urban land developments, community amenity design and aesthetics, hike and bike trail development, multi -family, town home, and student housing developments, assisted and independent living facilities, commercial and retail developments, multi–use urban developments, streetscapes, private and public park development, restaurant and hotel development, tree preservation and identification, and federal and military housing and urban development. He is a registered landscape architect with a Bachelor of Arts in Landscape Architecture. Experience relevant to the specific aspects and anticipated services for the proposed public works projects are listed below.

RELEVANT PROJECT EXPERIENCE

- Design Landscape Architectural Services for the Improvements to Dickinson's Public Library, Dickinson, Texas
- Design Landscape Architectural Services for the Cedar Hill State Park Flood Damage Repairs, Texas Parks & Wildlife Department
- Design Landscape Architectural Services for the Fort Bend Courthouse and Pedestrian Plaza, City of Richmond, Texas
- Design Landscape Architectural Services El Franco Lee Park, Houston Parks Board, Houston, Texas
- Design Landscape Architectural Services Citywide Park Improvements, City of El Paso, Texas
- Design Landscape Architectural Services Lomax Park Improvements, City of La Porte, Texas
- Design Landscape Architectural Services Pedestrian Plaza near Travis Building, Fort Bend County, Texas
- Design Landscape Architectural Services Minor League Baseball Stadium, City of Sugar Land, Texas
- Design Landscape Architectural Services Atlantic Aviation FBO and Hangar Complex Expansion at Hobby Airport, Texas
- Design Landscape Architectural Services Cameron Park, Waco, Texas
- Design Landscape Architectural Services on Southeast Beltway 8, Harris Count, Texas

EDUCATION

1999 Bachelor of Arts, Landscape Architecture, Oklahoma State University

REGISTRATION

Registered Landscape Architect:/Texas/#2378

PROFESSIONAL ASSOCIATIONS

American Society of Landscape Architects

ENGINEERING, ARCHITECTURAL AND SURVEYING SERVICES FOR TEXAS GENERAL LAND OFFICE'S COMMUNITY DEVELOPMENT BLOCK GRANT - MITIGATION REGIONAL METHOD OF DISTRIBUTION PROGRAM

ROBERT POWELL, P.E.

Lead Civil Engineer

Robert Powell has more than 27 years of experience in the design and preparation of construction documents for flood control projects. He is also well versed in providing construction management supervision and inspection, and design detailing. He has served as the Project Manager for the Maintenance Engineering of federally-assisted channels in Harris County, Texas for over ten years. In this role he has provided annual inspection of the assets in the program and condition assessment reports for each asset. He has also provided construction document packages for the repair of the deficiencies.

RELEVANT PROJECT EXPERIENCE

Maintenance Engineering for the Federally- Assisted Channels, Harris County, Texas

Powell served as Project Manager and Lead Civil Engineer for the maintenance of federally-assisted channels in Harris County, Texas. Channels in this program include Brays Bayou (24 miles), White Oak Bayou (ten miles), Vince Bayou (four miles), Little Vince Bayou (three miles), Sims Bayou (five miles), and Clear Lake Second Outlet Channel and Gated Structure. Scope of work includes an annual inspection of the assets in the program. Deficiencies are digitally photographed, repair cost calculated and categorized according to the priority of the repair. A comprehensive condition assessment report for each asset was prepared for Harris County Flood Control District (HCFCD) and the U.S. Army Corps of Engineers, Galveston District.

Non-Federal Channel Assessment, Harris County Flood Control District, Harris County, Texas

Powell served as Project Manager for the condition assessment of all non-federal channels maintained by Harris County Flood Control District. Field teams utilized GPS data collectors with Laser Rangefinders and digital cameras to collect the inventory and deficiency data. The data is downloaded, coordinated with digital photos, and incorporated into GIS with aerial imagery, all of which are used to estimate current values and repair costs for identified deficiencies on the 2,500 miles of county channels.

Clear Lake Second Outlet Scour Study, Harris County Flood Control District, Seabrook, Texas

Powell served as Project Manager for 2002 and 2004 scour studies and reports: inspecting for scour in channel at gated structure including hydrographic survey of channel bottom and comparison of findings to 1991 channel design record drawings. Data was incorporated into GIS, which was used to generate report exhibits.

Brays Bayou Desilt Project, Harris County Flood Control District, Harris County, Texas

Powell served as Project Manager for engineering services including survey, preparation of construction documents, and construction cost estimate for a sediment removal project on Brays Bayou from US 59 upstream to Old Westheimer, in support of HCFCD's engineering and maintenance program. Surveying was provided to coordinate with GIS contour data used to generate plans and cross sections for desilt project.

Repairs on White Oak Bayou at Yale and at Stude Park, Harris County Flood Control District - Houston Texas

Powell served as Project Manager for survey, preparation of construction documents, and construction cost estimates for repairs to two significant failures of Concrete Channel Lining on the federal portion of White Oak Bayou near Yale and Stude Park, in support of HCFCD's engineering and maintenance program.

EDUCATION

2007 Master of Engineering, Prairie View A&M University1982 Bachelor of Science, Building Construction, Texas A&M University

PROFESSIONAL REGISTRATION

Professional Engineer: Civil/Texas/#102329



ENGINEERING, ARCHITECTURAL AND SURVEYING SERVICES FOR TEXAS GENERAL LAND OFFICE'S COMMUNITY DEVELOPMENT BLOCK GRANT - MITIGATION REGIONAL METHOD OF DISTRIBUTION PROGRAM

AFSHIN GAZERZADEH, PE, CFM

Drainage Engineer

Gazerzadeh has more than 12 years of engineering experience dedicated to research, modeling and solving water resources engineering problems. He is experienced in numerical simulation and modeling for riverine, estuarine, coastal systems. He is skilled in flood risk analysis and coastal inundation hazard modeling. His Expertise is in drainage studies, watershed analysis, conveyance design and fluvial hydraulics. He has indepth knowledge of flood modeling and computational hydro-science.

RELEVANT PROJECT EXPERIENCE

- City of Dickinson CDBG-MIT Hughes Road, Dickinson, Texas
- Design Drainage Services for the FEMA Post Storm Damage Assessment, (Following Hurricane Harvey), Galveston County, Texas
- Design Drainage Services for the FEMA Post Storm Damage Assessment, (Following Hurricane Harvey), Dickinson, Texas
- Design Drainage Services for the CDBG-Disaster Recovery Project Pin Oak Drive, Drainage Improvements, Dickinson, Texas
- Design Drainage Services for the CDBG-Disaster Recovery Project Tributary to Gum Bayou Widening, Dickinson, Texas
- Design Drainage Services for the CDBG-Disaster Recovery Project Nicholstone Drainage Improvements, Dickinson, Texas
- Design Drainage Services for FEMA PA Funded Replacement of Paul Hopkins Park Bridge, Galveston County, Texas
- Design Drainage Services for the Preparation of FEMA HMG Application Historic Railroad Museum -Dickinson, Texas
- Design Drainage Services for the Drainage Engineering (following Hurricane Harvey), City of Dickinson, Dickinson, Texas
- Design Drainage Services for the Pre-Engineering Services Stormwater Drainage Improvements, City of Houston, Houston, Texas
- Design Drainage Services for Brazos River Bank Erosion, Sugar Land, Texas
- Design Drainage Services for South Lockwood Roadway and Drainage, Houston, Texas
- Design Drainage Services for Buffalo Bayou Study, Harris County Flood Control, Harris County, Texas
- Design Drainage Services for Dam Spillway Gates Replacement, Friends of Lake McQueeny,, Texas
- Design Drainage Services for 2018 Bond Program, Fort Bend Independent School District, Fort Bend County, Texas
- Design Drainage Services for Kingsland Boulevard at Westgreen Boulevard Intersection Improvements, Harris County, Texas

EDUCATION

- 2016 Master of Science, Civil Engineering Computational Hydroscience, University of Mississippi
- 2010 Master of Science Hydraulic Structures Engineering, Shahldchamran University, Iran
- 2007 Bachelor of Science, Civil Engineering, Shahldchamran University, Iran

REGISTRATION

Professional Engineer: Civil/Texas/#135980 Certified Floodplain Manager (CFM) #3461-19N



ENGINEERING, ARCHITECTURAL AND SURVEYING SERVICES FOR TEXAS GENERAL LAND OFFICE'S COMMUNITY DEVELOPMENT BLOCK GRANT - MITIGATION REGIONAL METHOD OF DISTRIBUTION PROGRAM

KATHERINE MEARS, PE, ENV SP

Water/Wastewater/Utilities Coordinator

Mears brings a diverse background of 25 years of project experience in water, wastewater, drainage, roadways, sidewalks, bikeways, traffic signals, and environmental documentation with clients ranging from municipalities, counties, and state agencies to utility districts. Her clients include numerous municipalities, counties, state agencies, and utility districts. She earned her Bachelor of Science in Civil Engineering from Texas A&M University and is a licensed engineer in Texas with an Envision Sustainability Professional Certification (ENV SP) from the Institute of Sustainable Infrastructure. Mears is very active in the local community and with a number of professional associations. She currently serves on the Board of Directors for ACEC Houston and previously served as Programs Committee Chair. She is also an APWA Officer and is the Southeast Branch Programs Chair.

RELEVANT PROJECT EXPERIENCE

- City of Dickinson On-Call Engineering Services, Dickinson, Texas
- City of Webster City Engineer, Webster, Texas
- Galveston County Water Control and Improvement District No. 1 Relief Sanitary Sewer, Dickinson, Texas
- Harris County Flood Control District, Brays Bayou Federal Flood Damage Reduction Project Willow, Harris County, Texas
- Galveston County Water Control and Improvement District No. 1 Deats Road Utility Relocations, Dickinson, Texas
- City of League City Water Line, League City, Texas
- City of Missouri City Cangelosi Watershed Facility Improvements Engineering Evaluation, Missouri City, Texas
- City of Tomball, Hufsmith-Kohrville Utilities Extension, Tomball, Texas
- City of Bryan, FM 1179 Utility Relocations, Bryan, Texas

EDUCATION

1997 Bachelor of Science, Civil Engineering, Texas A&M University

REGISTRATION

Professional Engineer: Civil/Texas/#90230 Institute for Sustainable Infrastructure Certified Envision Sustainability Professional (ENV SP), 2013

ENGINEERING, ARCHITECTURAL AND SURVEYING SERVICES FOR TEXAS GENERAL LAND OFFICE'S COMMUNITY DEVELOPMENT BLOCK GRANT - MITIGATION REGIONAL METHOD OF DISTRIBUTION PROGRAM

CHAD A. NESVADBA, PE

Water/Wastewater/Utilities Coordinator

Nesvadba has over 23 years of experience in the planning, design, and construction management for various commercial, municipal and county projects in the greater Houston Galveston area. Nesvadba has hands-on project experience on channels, streets, roadways, drainage systems, water and sewer utilities and facilities.

RELEVANT PROJECT EXPERIENCE

- City of Dickinson CDBG-DR Engineering Services, Dickinson, Texas
- City of Dickinson Oak Park, Dickinson, Dickinson, Texas
- City of Dickinson On-Call Engineering Services, Texas
- Harris County, Beaumont Place, Harris County Engineering Department, Harris County, Texas
- West Harris County Regional Water Authority, Contract 26, Harris County, Texas
- Fort Bend County Emergency Services District No. 4, Fort Bend County, Texas
- City of Galveston Seawall Improvement Project Amenities for All Galveston, Texas
- City of Rosenberg, Downtown Drainage System Rehabilitation, Rosenberg, Texas
- City of Friendswood, FM 518 Drainage Improvement, Friendswood, Texas
- City of Houston, South Braeswood (Stella Link Road to Buffalo Speedway) Paving, Drainage & Utility Reconstruction –Houston, Texas

EDUCATION

1997 Bachelor of Science, Civil Engineering, Texas A&M University

1993 Associates in Applied Science, Drafting Technology, Wharton County Junior College

REGISTRATION

Professional Engineer: Civil/Texas/#91092

ENGINEERING, ARCHITECTURAL AND SURVEYING SERVICES FOR TEXAS GENERAL LAND OFFICE'S COMMUNITY DEVELOPMENT BLOCK GRANT - MITIGATION REGIONAL METHOD OF DISTRIBUTION PROGRAM

RICARDO VAZQUEZ, RPLS

Survey/ Metes & Bounds

Vazquez is well versed in the many aspects of land surveying. He has particular expertise in engineering design surveys, boundary determination, construction staking, high-precision surveys, and preparation of survey plats, exhibits, and legal descriptions. His experience ranges from performing single lot surveys to an "as-built" of a chemical plant under construction. He has extensive commercial real estate experience and has been involved in the platting process of many subdivisions in the City of Houston and in Harris, Fort Bend, and Montgomery Counties. His construction experience spans from tunnels to high rise building construction.

RELEVANT PROJECT EXPERIENCE

Evergreen Contract – Harris County Flood Control District, Harris County, Texas

Vazquez prepared boundary and topographic surveys throughout the county for Harris County Flood control District as part of an evergreen contract. In addition, he prepared surveys for the Inverness Forest subdivision. This project involved channel improvements to Cypress Creek and included the building of a levee. Provided construction staking and volume calculations for the contractors as well as design surveys for the project engineer for Harris County Flood Control District. Vazquez also performed the calculations and directed the field crew in the office and the field. Vazquez oversaw the topographic survey for the design of Sesquicentennial Park Phase Two, located in downtown Houston next to the Wortham Center and the channel improvements of Cypress Creek at the Inverness Forest subdivision in north Houston.

Harris County Downtown Tunnel System Flood Study, Harris County, Texas

This project was a flood study for the downtown tunnel system used by Harris County employees to get form the Harris County garage to the Harris County buildings and Congress Plaza. The survey took and located detailed elevations in front of all doorways, elevators, changes in flooring, top of steps, horizontal and vertical angle points, and each side of the flood gates. The project began with Mr. Vazquez visiting the site to direct the field crews as to methodology initially and later from the office, reviewed the data for accuracy, and prepared the cad drawings.

Sugar Land Ditch 'H' and Oyster Creek Drainage Study, Sugar Land, Texas

This project was a flood study to determine capacity of Ditch 'H' in Sugar Land and to aid in the storm system design of property located on Oyster Creek at Creek Bend Drive. Vazquez directed the field crew and provided QA/QC on the project.

City of Texas City 34th Street Water Shed Drainage Study, Texas City, Texas

This project was a flood study along 34th Street from Palmer Highway to the Rainwater Pump Station located at 25th Avenue (Loop 197) in Texas City. Vazquez began the project by directing the field crew on site to begin the project and directing them from the office. He reviewed the field data and prepared the cad drawings.

F.M. 1960 from Lee Road to Aldine-Westfield Road, Harris County, Texas

Vazquez was responsible for the mapping and the acquisition of additional right-of-way along F.M. 1960 from Lee Road to Aldine-Westfield Road (4.4 miles). Extensive client and graphics consultant interfacing were required. Vazquez researched the real property records of numerous abstracts to ascertain current property ownerships, supervised the field crews (Directed them in the field during the Polaris star observations), performed all the control and boundary calculations, wrote the legal descriptions, and edited the right-of-way map for accuracy and completeness.

EDUCATION Undergraduate Courses

REGISTRATION Registered Public Land Surveyor, #4902/Texas



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CHAITANYA KASTURI, PE, PMP, ENV SP

Civil (Roads/Parking) Engineer

Kasturi has more than 15 years of civil, transportation, and utility engineering experience. Her background includes design, supervision, preparation of plans and specifications, and inspection of roads, paving, bridges, storm drainage, water and wastewater, traffic control plan structures, parking lots, and coastal protection projects. She too is extremely well-versed in drainage, roadway design, utilities, traffic control plans, and construction issues relating to urban street and drainage projects.

RELEVANT PROJECT EXPERIENCE

- City of Dickinson CDBG-MIT Hughes Road, Dickinson, Texas
- City of Dickinson Roadway Improvement, Dickinson, Texas
- FEMA PA Funded Bolivar Peninsula Road Reconstruction, Galveston County, Texas
- City of Houston, City-wide Storm Water Drainage, Pre-Engineering Design of CIP Projects, Houston, Texas
- City of Katy Fortuna Drive Drainage Improvements, Katy, Texas
- USACE Emergency Repairs to Gulf Coast Jetties and the Texas City Dike, Galveston, Texas
- City of Houston Linkwood Subdivision Paving and Drainage, Houston, Texas
- City of Houston Hillcroft Avenue Paving and Drainage, Houston, Texas
- City of Houston Lockwood Paving and Drainage, Houston, Texas
- City of Sugar Land, University Boulevard South, Sugar Land, Texas
- City of League City Downtown Redevelopment Program, League City, Texas
- City of League City FM 518 By-Pass, City of League City, Texas
- Fort Bend County, Falcon Landing Boulevard, Fort Bend County, Texas
- Harris County Engineering Department of Jarvis Road, Barker Cypress Road and Bridge, and Perry Roads, Harris County, Texas

EDUCATION

2004 Master of Engineering, University of Kansas2001 Bachelor of Science, Civil Engineering, Osmania University College

REGISTRATION

Professional Engineer: Civil/Texas/#101073

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CHARLES QUADE, PE

Structural (Bridge) Engineer

Quade has 29 years of experience as a structural engineer. His experience ranges from research, design, inspection, analysis, and rehabilitation of bridges to highways, freeways, airports, and other transportation projects. He has an in-depth knowledge for the design of, steel, reinforced concrete, prestressed concrete, and post-tensioned concrete structures. He has been responsible for structural analysis, design, and plan preparation for a large variety of highway, railroad, and light rail bridge projects. Quade has designed several storm drainage structures such as aerial utility crossings, junction boxes and unique culverts.

RELEVANT PROJECT EXPERIENCE

- FEMA Post Damage Assessments for Galveston County (following Hurricane Harvey), Galveston County, Texas
- University Boulevard South Extension City of Sugar Land, Texas
- SH 146 @ Spur 330 Interchange, TxDOT Houston District Baytown, Texas
- US 90A Railroad Overpasses, TxDOT Houston District Houston, Texas
- Barker Cypress Road Reconstruction Harris County, Texas
- Jarvis Road Reconstruction Harris County, Texas
- Downtown Corridor, METRO Solutions METRO of Harris County, Texas
- Texas Department of Transportation Bridge Design Pool Austin, Texas
- US 77 Bridge Replacements TxDOT Bridge Division /Austin District
- Fort Sill Bridge Inspections Lawton, Oklahoma
- Spillway Bridge Inspections States of Oklahoma and Kansas
- Denton County Bridge Replacement Program Denton, Texas

EDUCATION

1988 Master of Science, Structural Engineering, University of Texas @Austin

1984 Bachelor of Science, Civil Engineering, University of Texas @Austin

REGISTRATION

Professional Engineer: Structural/Texas/#69396

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CATHERINE GILLILAND, PE

Structural Engineer

Gilliland has 20 years of engineering experience. Her background includes design of structural engineering plans for residential and commercial, new construction and renovation to existing buildings, including wood, concrete and steel framing, and foundation windstorm design coastal properties. She has updated and created details for framing and lateral designs. Gilliland was responsible for the design of concrete repairs on existing structures, such as crack injection, protection of reinforcing, patching concrete spalls, holes in floors and roof.

RELEVANT PROJECT EXPERIENCE

- Design Services for Structural And Drainage Improvements to Dickinson's Public Library, Dickinson, Texas
- Post Storm Damage Assessment Services of Facilities and Infrastructure, Galveston County, Texas
 - Structural analysis and reports for the roof damage on several buildings that were damaged during Hurricane Harvey
 - Structural engineering services for a new steel platform for a new emergency generator for the Bayou Vista City Hall Building
 - FEMA PA Funded Paul Hopkins Park Bridge in Dickinson, which was damaged during Hurricane Harvey
- Post Storm Damage Assessment Services of Facilities and Infrastructure, Dickinson, Texas
- Repair of Hurricane Damage to Goose Island State Park, Texas Parks & Wildlife Department, Rockport, Texas
- Repair of Hurricane Damage to Cedar Hill State Park Flood Damage, Texas Parks & Wildlife Department, Cedar Hill, Texas
- TxDOT Architectural Indefinite Delivery/ Indefinite Quantity Facility Condition Assessment -Houston, Texas
- Construction Management Services, Bus Transit Maintenance Facility, Fort Bend County, Texas

EDUCATION

1997, Bachelor of Science, Civil Engineering, Rice University 1994, Bachelor of Arts, Architecture, Rice University

REGISTRATION

Professional Engineer: Civil/Texas/#90140 Appointed Qualified Windstorm Inspector through the Texas Department of Insurance

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CLAUDE MARSHALL

Construction Manager

Marshall has more than 20 years of experience in the construction industry. His years of experience encompasses years of surveying drafting and design, inspection, and project management on municipal street, drainage and utility projects. Marshall was the Project Manager for the \$7 million Hurricane Lane Extension project for the City of Missouri City, which partnered with consultants, contractors, and others involved in the planning, preliminary design, design development bidding, permitting, construction process and inspections, RFI's, change orders, final occupancy, project closeout, and warranty phase.

RELEVANT PROJECT EXPERIENCE

- Construction Management/Inspection Services on FTA Funded Bus Transit Maintenance Service Center, Fort Bend County, Fort Bend County, Texas
- Construction Inspection Services on Federally Funded Tiger Project for White Oak Bayou Trial, City of Houston/Houston Parks Board, Houston, Texas
- Construction Management/Inspection Services on FEMA PA Funded Replacement of Paul Hopkins Park Bridge, Galveston County, Texas
- Construction Management/Inspection Services on FEMA Post Damage Assessments for Galveston County (following Hurricane Harvey), Galveston County, Texas
- Construction Management on FEMA HMP FUNDED Galveston County 9th and 11th Street Drainage -Galveston, Texas
- Construction Management/Inspection Services on East Water and NE Water Purification Plants, City of Houston, Houston, Texas
- Construction Management/Inspection Services on Luce Bayou Canal Maintenance Facility, Coastal Water Authority, Liberty, Texas
- Construction Engineering Inspection Services, TxDOT Houston
- Gregory Boulevard Reconstruction Project City of Missouri City, Texas
- Turtle Creek Drive Reconstruction Project City of Missouri City, Texas
- MS4 Storm Water Administrator City of Missouri City, Texas
- Waste Water Inspection for Clean and TV Citywide Contracts, Houston, Texas
- Reconstruction of Maintenance Zone 1078 City of Tulsa

EDUCATION

1994 Associates Degree in Engineering, Southwest Virginia Community College

REGISTRATION

TCEQ Wastewater Collection III License

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CECIL DAUGHTRY

Construction Inspector

Daughtry has more than 35 years of experience in the construction industry. His experience encompasses years of construction inspection on a myriad of Municipal Street, drainage and utility projects. Most recently, Daughtry was the Lead Inspector for the 24/7 inspection for the \$21 million Shepherd Drive Paving and Drainage project for the City of Houston. This complete street, drainage and utility reconstruction project through one of the most influential business and residential streets in Houston, Texas required around the clock inspection and involved an 84-inch tunnel for a new storm sewer outfall to Brays Bayou and reconstruction of several signalized intersections. Significant coordination with businesses and local residents was required as well as coordination of the traffic control management plan.

RELEVANT PROJECT EXPERIENCE

- Construction Management on FEMA HMP Funded Galveston County 9th and 11th Street Drainage -Galveston, Texas
- Post Storm Damage Assessment for Galveston County, Texas
- Monitoring Inspection of Texas City Hurricane Protection Levee, Galveston County, Galveston County, Texas
- Construction Management & Inspection for Shepherd Drive Paving and Drainage, City of Houston, Texas
- Construction Management & Inspection for West Little York Paving and Drainage, City of Houston, Texas
- Construction Inspection of Bayou Greenways 2020 Program, Houston Parks Board, Houston, Texas
- Construction Inspection of Bayou Greenways 2020 Program, Houston Parks Board, Houston, Texas
- Sanitary Sewer Rehabilitation Ashland Boulevard, Harris County Water Control & Improvement District (WC&ID) No. 84, Harris County, Texas
- Wastewater Reuse Design, Harris County WC&ID No. 84, Harris County, Texas
- Bulkhead Replacement, Colony Grant Subdivision, Fort Bend County, Texas
- Construction Engineering Inspection Services, TxDOT Houston

EDUCATION Undergraduate Courses

CERTIFICATIONS City of Houston - Certified Construction Inspector

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WEBB PEDERSON

Construction Inspector

Peterson has 31 years of experience working on public works engineering and land development projects, including construction contract administration and full-time field inspection services. A prior construction inspector for the Harris County Flood Control District and the City of Houston, Pederson has provided Field Inspections and Construction Management Inspection Services on streets, water and sewer utilities, drainage systems, sanitary lift stations; wastewater treatment plants rehabilitations and upgrades; and drainage channel repairs. Pederson is proficient in the documenting daily construction activities, traffic control plan implementation and storm water quality activities.

RELEVANT PROJECT EXPERIENCE

- Construction Management on White Oak Bayou Trails, Segments A, B, C & D, Houston Parks Board, Harris County, Texas
- Maintenance of Federally-Assisted Channels for the Harris County Flood Control District (HCFCD) Harris County, Texas
- Channel Repairs, Montgomery County #Drainage District 6, Montgomery County, Texas
- Supervisor, Development Coordination and Inspection Section, Harris County Flood Control District, Texas
- Montgomery County Drainage District 6, District Administration, Montgomery County DD #6, Texas
- Construction Management on Drive Drainage and Paving, City of Houston, Houston, Texas
- Elkins Lake Dam Concrete Spillway Improvements, Elkins Lake Recreation Corporation
- Paving Improvements, Rancho Verde Subdivision, Harris County, Texas
- Engineering Services, Point Aquarius Municipal Utility District, Montgomery County, Texas
- Engineering Services, Brazoria County Municipal Utility District, Brazoria County, Texas

EDUCATION

Undergraduate Courses

CERTIFICATIONS

City of Houston - Certified Construction Inspector

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PAUL WILD (*Wild Associates – SBE Firm*) Environmental Specialist

Wild has 36 years of experience in environmental and health and safety consulting, geotechnical and construction materials testing programs, contractor quality assurance, and business management applied to the oil and gas, petrochemicals, power, waste management, and manufacturing industries. Technical experience with field exploration programs, contractor construction monitoring, NEPA documentation, bid spec and bid tab development, constructability analysis, remedial construction management, drilling operations, data analysis, regulatory analysis and auditing, permitting, ISO 9001, and technical document preparation.

RELEVANT PROJECT EXPERIENCE

Phases I and II - Environmental Site Assessments (ESA) - General Land Office (GLO), Galveston Island Development Areas 3, 4, and 5 - Galveston, Texas

Responsible for Phases I and II ESAs for select areas on Galveston Island to evaluate the potential for environmental impacts from recognized environmental conditions.

Environmental Reviews GLO/Galveston Housing Authority, Disaster Recovery Scattered Sites Department for Housing and Urban Development (HUD), Galveston, Texas

Provided the development of NEPA Environmental Review Records under the direction of the Community Development Block Grant (CDBG) to assist with the selection of the optimal tracts for development of scattered housing sites to replace units lost in Hurricane Ike.

Condition Assessment, Threatened and Endangered Species (T&ES) Survey, and Corps Permitting -GLO/ City of Orange, Disaster Recovery Coopers Gully Stream, Orange, Texas

Directed the stream condition assessment, T&ES survey, and Corps 404 permitting under the CDBG for the Post-Hurricane Ike's Channel Improvements project.

Wastewater Treatment Plant and Incinerator Studies - GLO/City of Galveston, Disaster Recovery Utility Corridor, Water Plant, Galveston, Texas

Responsible for the ACM/LBP surveys, abatement plan development, demolition bid review, Phases I and II ESAs, indoor vapor intrusion surveys, and general environmental consulting under the CDBG for multiple infrastructure projects.

Debris Management, Wetlands Delineations, Historical/ Surveys, Corps Permitting, Marsh Degradation Survey GLO/FEMA/City of Port Arthur, Disaster Recovery HUD Environmental Reviews, HazMat - Port Arthur, Texas

Responsible for the development of the NEPA Environmental Review Records and various resource surveys for US Army Corps of Engineers' permitting and FEMA disaster recovery operations under the CDBG.

Disaster Recovery HUD Environmental Reviews, GLO/URS CORPORATION - Bellaire, Webster, Deer Park, Seabrook, and Galena Park, Texas

Responsible for the development of the NEPA Environmental Review Records for disaster recovery projects under the CDBG.

EDUCATION

Bachelor of Science, Chemistry (Zoology minor): Marshall University, 1983

CERTIFICATION

TCEQ Corrective Action Project Manager Reg. #CAPM00385; OSHA Certified for Hazardous Waste Site Work (OSHA 29 CFR 1910.120); OSHA 29 CFR 1910.120 Supervisor Training Asbestos Hazard Emergency Response Act (AHERA) building inspector and management planner; and Illinois Licensed Asbestos Inspector #100-7145 (lapsed)

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CHRISTY WILD (Wild Associates – SBE Firm) Environmental Specialist

Horticulturist with 12 years of experience in greenhouse management and plant propagation including regulations for pesticide use and application issues under Texas Department of Agriculture; plant propagation using Integrated Pest Management (IPM) for pest and disease control and plant nutrition; plant compatibilities in landscape design and selection of suitable plants based on site-specific criteria for irrigation, soil types, and erosion control; wetland delineations; stream condition assessments; Phase I Environmental Site Assessments (ESA); Threatened and Endangered Species Surveys; Historical and Cultural Resource Surveys; and oilfield remediation monitoring. Develops US Army Corps of Engineers' Nationwide and Individual Permits for drainage improvement and bank stabilization projects.

RELEVANT PROJECT EXPERIENCE

- Galveston Island Development Areas 3, 4, and 5 Phase I Environmental Site Assessments, General Land Office, Galveston, Texas
- Disaster Recovery Coopers Gully Stream Condition Assessment, Corps Individual Permit, General Land Office/City of Orange, Orange, Texas
- Wetlands and Water Bodies Mitigation Monitoring, Corps Permit Compliance, City of League City, League City, Texas
- Disaster Recovery Wetlands and Water Bodies Delineations, Hist./Cult & T&ES Surveys (Huitt-Zollars) Texas Parks and Wildlife Department, Cedar Hill, Texas
- Stream Condition Assessment and Ecological Risk Assessment, Nucor Steel, Jewett, Texas. Conducted a Stream Condition Assessment of Brushy Creek to support Nucor Steel and TCEQ in their Ecological Risk Assessment of the area surrounding the plant.
- Wetlands and Water Bodies Delineations, Phase I ESAs, Hist/Cult & T&ES Surveys, Corps Regional General Permits, Harris County Public Infrastructure Department, Harris County, Texas
- Phase I ESA Water Line and Booster Station, CDM/City of League City, League City, Texas
- Phase I ESAs, HazMat Surveys Conducted Phase I Houston Independent School District, Houston, Texas, ESAs and provided quality assurance review for hazmat surveys
- North Harris County Regional Water Authority, Harris County, Texas, Phase I ESA, Wetlands Delineation, Threatened and Endangered Species Survey for a 2-mile water line.

EDUCATION

1998-1999; Undergraduate Courses, Houston Community College 1993-1996 Undergraduate Courses, University of Texas Austin

CERTIFICATIONS

US Army Corps of Engineers Wetland Delineation Training, Richard Chinn Environmental Training, Inc., 2013 Advanced Hydric Soils, Wetland Training Institute, 2014 Keying Grasses, Sedges, and Rushes, Wetland Training Institute, 2014

ENGINEERING, ARCHITECTURAL AND SURVEYING SERVICES FOR TEXAS GENERAL LAND OFFICE'S COMMUNITY DEVELOPMENT BLOCK GRANT - MITIGATION REGIONAL METHOD OF DISTRIBUTION PROGRAM

JORGE GARCIA-HERREROS, MA, RPA, CRD (Wild Associates – SBE Firm)

Archaeologist

Garcia-Herreros has 25 years of professional experience in the field of cultural resource management, anthropology, and archaeology. Additionally, he is currently the Archaeology Commissioner for the City of Houston's Archaeological and Historical Commission and has taught anthropology and archaeology courses at the University of Houston, Ashford University, Lone Star College, and Houston Community College. His responsibilities include management of field operations including establishing survey protocols, training personnel, and developing excavation methodologies, and obtaining clearances pursuant to Section 106 of the Historic Preservation Act, including formal and informal consultations with State Historic Preservation Officers, FERC, United States Army Corps of Engineers and Department of Defense. He has extensive experience planning, conducting, and managing site investigations of varying sizes, conducting agency consultations, and obtaining the necessary clearances for proposed projects. Garcia-Herreros has conducted over 150 phase I, II, and III archaeological investigations for private sector, government, and academic projects. Scopes have ranged from small urban sites of one-acre or less to large linear projects encompassing hundreds of miles. His geographical project experience covers 18 U.S. states, Puerto Rico, and areas in Central and South America. His primary areas of interests are conflict, coastal and contact period archaeology. In addition, he has a great deal of experience in the identification and curation of significant historic and prehistoric artifacts. He has conducted archival research including examination of deeds, death certificates, wills, census records, tax records, and land grants.

RELEVANT PROJECT EXPERIENCE

- Principal Investigator Directed a Phase I survey of two coastal areas planned for the construction of Gravity Based Structures in Nueces and Galveston County, Texas. This included background research, field investigations and report write up.
- Principal Investigator Directed a Phase I survey of a ROW in Harris County, Texas, for the Propose Park Row Expansion Project. No archaeological sites were found. This included background research, field investigations, artifact analysis and report write up.
- Principal Investigator Directed a Phase I survey of a coastal area planned for the construction of a mitigation wetland area in Aransas County, Texas. One prehistoric site was recorded during this survey. This included background research, field investigations and report write up.
- Principal Investigator Directed a Phase I survey of two coastal areas planned for the construction of Gravity Based Structures in Nueces and Galveston County, Texas. This included background research, field investigations and report write up.
- Principal Investigator Directed a Phase I survey of a coastal area planned for beach front development in Bolivar Peninsula in Galveston County, Texas. No archaeological sites were recorded during this survey. This included agency consultation, background research, field investigations and report write up.

EDUCATION

M.A., Anthropology, University of Houston, 1998 B.A., Anthropology and Sociology, University of Houston, 1995

REGISTRATIONS/CERTIFICATIONS

Register of Professional Archaeologists; Council of Texas Archaeologists; Society for Historical Archaeology, Society for American Archaeology, Texas Archaeological Society

ENGINEERING, ARCHITECTURAL AND SURVEYING SERVICES FOR TEXAS GENERAL LAND OFFICE'S COMMUNITY DEVELOPMENT BLOCK GRANT - MITIGATION REGIONAL METHOD OF DISTRIBUTION PROGRAM

DAVID EASTWOOD, PE, D.GE, DFE, C.A.P.M., F FPA F ASCE (*Geotech Engineering and Testing – MBE Firm*) Geotechnical Engineer

Eastwood has practiced consulting engineering for about 43 years, serving in key technical project management and administrative roles. His specialties are in geotechnical, environmental, materials and geoforensic engineering. Eastwood's experience in these functions includes a wide range of project types, ranging from public infrastructure, public works, municipal work, industrial facilities, and commercial developments to waste disposal facilities, power plants, dams, marine terminals and underground storage tank contamination studies. Eastwood has the ability to provide clients with cost effective alternatives to difficult problems. One of Eastwood's greatest attributes is his ability to contribute constructively, responsively, and professionally as a member of the client's project design team.

RELEVANT PROJECT EXPERIENCE

- City of Dickinson CDBG-MIT Hughes Road, Dickinson, Texas
- To conduct Geotechnical Studies of SH 99 (FM 1093 to IH-10 and Southbound Frontage Road to FM 1093) to Fry Road, Fort Bend and Harris County, Texas
- Conducted Geotechnical Studies of SH 99 (SH 146 East) to FM 1405, Chambers and Harris County, Teas
- Conducted Geotechnical Studies of Mechanically Stabilized Earth (MSE) Retaining Wall from IH 61 to IH 10, Chambers, County, Texas
- Conducted Geotechnical Studies of Scour Analysis at IH 10 at Turtle Bayou Bridge, Chambers County, Texas

EDUCATION

1978 Master of Science, Civil Engineering, University of Houston1977 Bachelor of Science, Civil Engineering, University of Houston

REGISTRATION

Professional Engineer: Civil/Texas/#51419

ENGINEERING, ARCHITECTURAL AND SURVEYING SERVICES FOR TEXAS GENERAL LAND OFFICE'S COMMUNITY DEVELOPMENT BLOCK GRANT - MITIGATION REGIONAL METHOD OF DISTRIBUTION PROGRAM

JAMES NAMEKAR, PHD, PE (*Geotech Engineering and Testing – MBE Firm*) Geotechnical Engineer

Namekar is a Project Manager at Geotech Engineering and Testing (GET) with the responsibility for the daily operations of geotechnical and environmental engineering, data analyses and the preparation of report recommendations. He has 15 years of experience in the fields of geotechnical, environmental, materials and forensic engineering. His experience is in public infrastructure, including water, wastewater, roads, bridges, freeways, retaining walls, embankments, commercial and high-rise buildings, rail, parks, underground utilities, airports, ports, flood control channel, and subdivisions. His other experience includes planning and supervising geotechnical explorations, subsurface investigations, coordinate laboratory testing and analyze results, date review, report preparation and post-design services. His other experience includes research and development in the field of deep foundations, slope-stability, retaining walls, unsatured soil mechanics. Namekar's geotechnical experience has been in landslide investigations, static and seismic slope stability analysis for embankments, cut slopes, ground improvements, jet grouting, shallow and deep foundation design and special inspection, horizontal directional drilling, settlement, lateral earth pressure, rigid pavement design. He has a lot of experience with design of foundations on expansive soils.

RELEVANT PROJECT EXPERIENCE

- Conduced Geotechnical Studies of SH 99 (FM 1093 to IH-10 and Southbound Frontage Road to FM 1093) to Fry Road, Fort Bend and Harris County, Texas
- Conducted Geotechnical Studies of SH 99 (SH 146 East) to FM 1405, Chambers and Harris County, Teas
- Conducted Geotechnical Studies of Mechanically Stabilized Earth (MSE) Retaining Wall from IH 61 to IH 10, Chambers, County, Texas
- Conducted Geotechnical Studies of Scour Analysis at IH 10 at Turtle Bayou Bridge, Chambers County, Texas

EDUCATION

2013 Ph.D. – University of Hawaii at Manoa, Manoa, Hawaii
2008 Master of Science, ./Ocean and Resources - University of Hawaii at Manoa, Manoa, Hawaii
2004 Master of Science, Civil Engineering, Institute of Technology, Bombay, India
1999 Bachelor of Science, Civil Engineering, University of Pune, Pune, India

REGISTRATION

Professional Engineer: Civil/Texas/#131521

ENGINEERING SERVICES/ARCHITECTURL/SURVEYING SERVICES FOR TEXAS GENERAL LAND OFFICE COMMUNITY DEVELOPMENT BLOCK GRANT - MITIGATION REGIONAL METHOD OF DISTRIBUTION PROGRAM



ENGINEERING, ARCHITECTURAL AND SURVEYING SERVICES FOR TEXAS GENERAL LAND OFFICE'S COMMUNITY DEVELOPMENT BLOCK GRANT - MITIGATION REGIONAL METHOD OF DISTRIBUTION PROGRAM

Statement Regarding Resources of the Service Provider to Carry out the Scope of Work

Workload

Huitt-Zollars is fully committed to assisting the City of Richwood (City) with addressing all of the City's infrastructure (streets, drainage and facilities) needs. We have and are offering our Top Team of CDBG-MIT, CDBG-DR, GLO and FEMA experienced drainage professionals to the City. Our current and projected workload will enable us to provide the City with prompt technical services. We have the local engineers, architects, surveyors and construction managements to ensure we meet the City's needs on its most technically challenging and schedule-sensitive projects.

Demonstrated Understanding of Scope of the Project

Since September 2018, Huitt-Zollars has provided responsive technical drainage engineering and construction management services to the City of Dickinson. The projects have included GLO CDBG-MIT, FEMA-reimbursable, GLO CDBG-DR and City of Dickinson's funded projects. Through the GLO CDBG-DR program, we have provided drainage engineering for \$9 million dollars of roadway and drainage improvements. Additionally, we represented the City of Dickinson when dealing with FEMA on the documentation of storm damage to its roadway and drainage infrastructure. Following award of these grants, we worked with the City of Dickinson and its grant administrator to secure the funding and provide design, bidding, construction, and project closeout processes. Huitt-Zollars has a full and complete understanding of the scope of work required during Pre-funding application period, which includes development of alternative projects and approaches, delineation of benefit area, **project evaluation to include calculations of the project's benefit-cost analysis**, preparation of construction, and engineering costs.

Recently to address the continuing bank erosion of the Brazos River in Fort Bend County, Huitt-Zollars prepared and submitted to the Texas Water Development Board an application for the Flooding Infrastructure Fund for Project Brazos. This application included a Benefit-Cost Analysis which resulted in a B-CR of 18.7 for this \$360 million project.

Pre-Funding Services

More specifically, during Pre-Funding, Huitt-Zollars will:

- Work with the City and its Grant Administrator to advance the formulation of CDBG-MIT project(s) and provide technical expertise to the Team for the submission of a successful grant application(s)
- Prepare Exhibits and the Benefit-Cost Analysis, as required, to support the applications
- Provide all services in accordance with GLO's CDBG-MIT Method of Distribution (MOD) requirements

We previously worked closely with the City of Dickinson and its Grant Administrator successfully to secure \$9 million in CDBG-DR funding and \$50 million in CDBG-MIT funding for the City of Dickinson's drainage and paving needs.

Initial Engineering and Design Support (Post-Funding)

During the Post-Funding phase, we are to provide responsive engineering services, which follows the GLO's grant requirements for project funding. These services include Engineering and Final Design, Bid and Award Support, and Contract Management and Construction Oversight.

More specifically, during the Post-Funding Phase, we will:

- Prepare a topographic and boundary survey and boundary of the project area
- Conduct a thorough review of available drawings, contact public and private utilities and pipelines and conduct SUE investigations, if necessary, to develop drawings of existing utilities. Coordinate with pipelines

ENGINEERING, ARCHITECTURAL AND SURVEYING SERVICES FOR TEXAS GENERAL LAND OFFICE'S COMMUNITY DEVELOPMENT BLOCK GRANT - MITIGATION REGIONAL METHOD OF DISTRIBUTION PROGRAM

will be documented along with the requirements for crossing the pipeline. A Utility Conflict List will be developed to track the resolution of all utility's conflicts associated with the project.

- Work with environmental consultant to document US Army Corps of Engineer (USACE) Wetland Section 404 and Section 10 survey investigations, Threatened and Endangered Species Report and a Cultural Resources Report approved by the Texas Historical Commission. Obtain USACE's Nationwide Permits or a General Permit, as required.
- Prepare meeting agenda and subsequent meeting minutes for City and design team meetings and meetings with regulatory agencies, utilities, and consultants.
- Work with the GLO, City and its Grant Administrator following review of permit requirements, project constraints, preliminary engineering evaluation, and cost estimates, to see what changes may be required to progress the project. Primary consideration in making a project modification should be to maintain the originally intended benefits of the project without increasing project cost, extending timeline to deliver the project, or affecting environmentally sensitive issues.

Engineering and Final Design Support (Post-Funding)

Huitt-Zollars shall advance the design of the selected project alternative in accordance with our ISO-9001:2015 compliant Quality Management Project and in coordination with the City and GLO's requirements. We will prepare construction plans and technical specifications that specify the level of quality to be achieved during construction. Drawings will include plan and profile drawings (horizontal/vertical control), typical and proposed sections, design cross sections, standard details, construction notes, project layouts, demolition plan sheets, SWPPP sheets and phased traffic control plans. Project Manuals will include the City's front-end documents to include contract specific requirements for GLO CDBG-MIT MOD funded projects along with technical specifications. Huitt-Zollars will also prepare an updated construction cost estimate with each design submittal.

Contract Procurement (Bid Phase and Award) Support (Post-Funding)

Huitt-Zollars shall provide the following services:

- Prepare contract document based on City's front-end documentation, technical specifications and the bid proposal form developed per the construction cost estimate.
- Assist the City with advertising of the project on CivCast to maximize contractor interest
- Conduct pre-bid conference, respond to bidder's questions, and issue addenda, as necessary.
- Upon receipt of bids and bid opening, prepare a bid tabulation, analyze bids and prepare a letter of recommendation for award of a construction contract.
- Oversee contractor's submission of contract required documents to include bonds and insurance certificates.
- Prepare construction contract documents and have contractor sign and deliver to the City.
- Work with the City to issue a notice-to-proceed and schedule the pre-construction conference.

Contract Management and Construction Oversight (Post-Funding)

Huitt-Zollars has an experienced construction management and inspection staff on federally-funded projects. For your project, we will:

- Conduct the pre-construction conference and record and distribute the meeting minutes.
- Perform daily observations and monitoring of the construction work and progress to ensure it is in general conformance with the Contraction Contract Documents. Prepare daily reports documenting observations and progress.

ENGINEERING, ARCHITECTURAL AND SURVEYING SERVICES FOR TEXAS GENERAL LAND OFFICE'S COMMUNITY DEVELOPMENT BLOCK GRANT - MITIGATION REGIONAL METHOD OF DISTRIBUTION PROGRAM

- Review the Contractor's schedule to ensure that it indicates duration, sequencing for major construction activities, and identifies critical activities.
- Prepare and process construction contract change orders. Maintain a record of all field orders, directives, time extensions, and requests for information, proposals, and change orders. Evaluate and negotiate change orders as authorized and approved by the City and make recommendations regarding change orders to the City.
- Review working drawings and specifications related to the project design where appropriate. Provide advice and consultation concerning such documents, including particularly their adequacy, accuracy, and constructability.
- Administer the testing laboratory contract. Monitor the required testing to ensure that sufficient testing is performed, secure, and distribute (or cause to be distributed) information from the testing laboratories to the City regarding necessary field and laboratory tests and review the results of such tests with the City for compliance with the construction documents for the project, assisting the City when necessary.
- Processing of product submittals, laboratory, shop, and mill tests of material and equipment for general conformity with construction document requirements and report to the City.
- Process and respond to Request for Information (RFI) and maintain a log of all RFIs and their disposition.
- Establish and maintain document control (filing) system to include all records, certificates, guarantees, warranties, and releases required from the construction contractor(s). Maintain an all-inclusive file for transmittal to the City at the completion of the project.
- Prepare and submit project close-out documentation per the requirements of the GLO.

Specialized Services

Huitt-Zollars offers the City the unique combination of all required professional services to support its Infrastructure (streets, drainage and facilities) needs under one roof. Plus, Huitt-Zollars is separately licensed by the State of Texas to offer professional Engineering, Architecture, Interior Design and Surveying Services.

Our team has the following technical expertise to assist the City with its most complex and demanding projects:

- ✓ Civil Engineers
- ✓ Transportation Engineers
- ✓ Traffic Engineers
- ✓ Drainage (H&H) Engineers
- ✓ Bridge Engineers
- ✓ Structural Engineers
- ✓ Mechanical Engineers
- ✓ Electrical Engineers
- ✓ Plumbing Engineers
- ✓ Fire Protection Engineers

- ✓ Architects
- ✓ Interior Designers
- ✓ Landscape Architects
- ✓ Planners
- ✓ Surveyors
- ✓ Construction Managers
- ✓ Construction Inspectors
- ✓ Geotechnical Engineers
- ✓ Environmental Specialists
- ✓ Archaeologist

ENGINEERING SERVICES/ARCHITECTURL/SURVEYING SERVICES FOR TEXAS GENERAL LAND OFFICE COMMUNITY DEVELOPMENT BLOCK GRANT - MITIGATION REGIONAL METHOD OF DISTRIBUTION PROGRAM



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

					_	2/1/2022	
THIS CERTIFICATE IS ISSUED AS A M. CERTIFICATE DOES NOT AFFIRMATIV BELOW. THIS CERTIFICATE OF INSU REPRESENTATIVE OR PRODUCER, AND	ATTEI ELY (RANC) THE	R OF INFORMATION ONLY OR NEGATIVELY AMEND, CE DOES NOT CONSTITUT CERTIFICATE HOLDER.	AND CONFERS N EXTEND OR ALT E A CONTRACT	IO RIGHTS ER THE CO BETWEEN T	JPON THE CERTIFICATE VERAGE AFFORDED BY HE ISSUING INSURER(S)	HOLDER. THIS THE POLICIES , AUTHORIZED	
IMPORTANT: If the certificate holder is	an Al	DDITIONAL INSURED, the p	olicy(ies) must ha		IAL INSURED provisions of	or be endorsed.	
If SUBROGATION IS WAIVED, subject to	o the	terms and conditions of th	e policy, certain po	olicies may i	require an endorsement.	A statement on	
this certificate does not confer rights to	the ce	ertificate noider in lieu of su	CONTACT).			
12801 North Control Evol	Suito	1725	NAME:	Joe Bryant	FAX		
Dallas, TX 75243	Juite	1725	(A/C, No, Ext):	(214) 323-460)2 (A/C, No):	(214) 503-8899	
			ADDRESS: certificatedallas@risk-strategies.com				
			INSURER(S) AFFORDING COVERAGE			NAIC #	
			INSURER A: Berkley	Insurance Co	ompany	32603	
			INSURER B :				
Huitt-Zollars, Inc. 5/30 LB L Freeway			INSURER C :				
Suite 1500			INSURER D :				
Dallas TX 75240			INSURER E :				
			INSURER F :				
COVERAGES CERT	FICA	TE NUMBER: 66567552			REVISION NUMBER:		
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.							
INSR LTR TYPE OF INSURANCE II	ISD W	VD POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS		
COMMERCIAL GENERAL LIABILITY					EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$		
					MED EXP (Any one person)		
					PRODUCTS - COMP/OP AGG \$		
					COMBINED SINGLE LIMIT		
					(Ea accident)		
					BODILY INJURY (Per person) \$		
AUTOS ONLY AUTOS					BODILY INJURY (Per accident) \$		
AUTOS ONLY AUTOS ONLY					(Per accident)		
					\$		
UMBRELLA LIAB OCCUR					EACH OCCURRENCE \$		
EXCESS LIAB CLAIMS-MADE					AGGREGATE \$		
DED RETENTION \$					\$		
WORKERS COMPENSATION					PER OTH- STATUTE ER		
					E L EACH ACCIDENT \$		
OFFICER/MEMBER EXCLUDED?	/Α						
If yes, describe under							
A Professional Liability		AEC-9051991-06	1/23/2022	1/23/2023	Per Claim	\$2.000.000	
Pollution Liability					Annual Aggregate	\$2,000,000	
	S (ACC	NPD 101 Additional Remarks Cales to 1	o may be attacked if are				
The claims made professional liability coverage is the total aggregate limit for all claims presented within the annual policy period and is subject to a deductible. Thirty (30) day notice of cancellation in favor of certificate holder on all policies.							
Master Certificate			SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.				
			AUTHORIZED REPRESE		10.1		
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			Joe Brvant	Ţ	V ·		
I			@ 10	88-2015 40		rights reserved	
ACORD 25 (2016/03)	The	ACORD name and logo ar	e registered mark	s of ACORD			

HUITT - ZOLLARS, INC.

Unique Entity ID TE2UF5DKK3B7	Registration StatusExpiration DateActive RegistrationJul 14, 2023
CAGE/NCAGE	Purpose of Registration
3ZSE6	All Awards
Physical Address	Mailing Address
10350 Richmond AVE STE 300	10350 Richmond AVE STE 300
Houston, Texas	Houston, Texas
77042-4248, United States	77042-4248, United States

CONFLICT OF INTEREST QUESTIONNAIRE For vendor doing business with local governmental entity	FORM CIQ					
This questionnaire reflects changes made to the law by H.B. 23, 84th Leg., Regular Session.	OFFICE USE ONLY					
This questionnaire is being filed in accordance with Chapter 176, Local Government Code, by a vendor who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the vendor meets requirements under Section 176.006(a).	Date Received					
By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the vendor becomes aware of facts that require the statement to be filed. <i>See</i> Section 176.006(a-1), Local Government Code.						
A vendor commits an offense if the vendor knowingly violates Section 176.006, Local Government Code. An offense under this section is a misdemeanor.						
Name of vendor who has a business relationship with local governmental entity.						
2 Check this box if you are filing an update to a previously filed questionnaire. (The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than the 7th business day after the date on which you became aware that the originally filed questionnaire was incomplete or inaccurate.)						
³ Name of local government officer about whom the information is being disclosed.						
Name of Officer						
 4 Describe each employment or other business relationship with the local government officer, or a family member of the officer, as described by Section 176.003(a)(2)(A). Also describe any family relationship with the local government officer. Complete subparts A and B for each employment or business relationship described. Attach additional pages to this Form CIQ as necessary. A. Is the local government officer or a family member of the officer receiving or likely to receive taxable income, other than investment income, from the vendor? Yes No 						
 B. Is the vendor receiving or likely to receive taxable income, other than investment of the local government officer or a family member of the officer AND the taxable income governmental entity? Yes No 	t income, from or at the direction income is not received from the					
5 Describe each employment or business relationship that the vendor named in Section 1 maintains with a corporation or other business entity with respect to which the local government officer serves as an officer or director, or holds an ownership interest of one percent or more.						
Check this box if the vendor has given the local government officer or a family member as described in Section 176.003(a)(2)(B), excluding gifts described in Section 176.0	of the officer one or more gifts 003(a-1).					
7 August R. Wine, PE, LEED AP, Huitt-Zollars, Inc. Septer Signature of vendor doing business with the governmental entity	ember 6, 2022 Date					

CONFLICT OF INTEREST QUESTIONNAIRE For vendor doing business with local governmental entity

A complete copy of Chapter 176 of the Local Government Code may be found at http://www.statutes.legis.state.tx.us/ Docs/LG/htm/LG.176.htm. For easy reference, below are some of the sections cited on this form.

Local Government Code § 176.001(1-a): "Business relationship" means a connection between two or more parties based on commercial activity of one of the parties. The term does not include a connection based on:

(A) a transaction that is subject to rate or fee regulation by a federal, state, or local governmental entity or an agency of a federal, state, or local governmental entity;

(B) a transaction conducted at a price and subject to terms available to the public; or

(C) a purchase or lease of goods or services from a person that is chartered by a state or federal agency and that is subject to regular examination by, and reporting to, that agency.

Local Government Code § 176.003(a)(2)(A) and (B):

(a) A local government officer shall file a conflicts disclosure statement with respect to a vendor if:

(2) the vendor:

(A) has an employment or other business relationship with the local government officer or a family member of the officer that results in the officer or family member receiving taxable income, other than investment income, that exceeds \$2,500 during the 12-month period preceding the date that the officer becomes aware that

 $(\bar{i})\,$ a contract between the local governmental entity and vendor has been executed; or

(ii) the local governmental entity is considering entering into a contract with the vendor;

(B) has given to the local government officer or a family member of the officer one or more gifts that have an aggregate value of more than \$100 in the 12-month period preceding the date the officer becomes aware that:

- (i) a contract between the local governmental entity and vendor has been executed; or
- (ii) the local governmental entity is considering entering into a contract with the vendor.

Local Government Code § 176.006(a) and (a-1)

(a) A vendor shall file a completed conflict of interest questionnaire if the vendor has a business relationship with a local governmental entity and:

(1) has an employment or other business relationship with a local government officer of that local governmental entity, or a family member of the officer, described by Section 176.003(a)(2)(A);

(2) has given a local government officer of that local governmental entity, or a family member of the officer, one or more gifts with the aggregate value specified by Section 176.003(a)(2)(B), excluding any gift described by Section 176.003(a-1); or

(3) has a family relationship with a local government officer of that local governmental entity.

(a-1) The completed conflict of interest questionnaire must be filed with the appropriate records administrator not later than the seventh business day after the later of:

(1) the date that the vendor:

(A) begins discussions or negotiations to enter into a contract with the local governmental entity; or

(B) submits to the local governmental entity an application, response to a request for proposals or bids, correspondence, or another writing related to a potential contract with the local governmental entity; or

(2) the date the vendor becomes aware:

(A) of an employment or other business relationship with a local government officer, or a family member of the officer, described by Subsection (a);

(B) that the vendor has given one or more gifts described by Subsection (a); or

(C) of a family relationship with a local government officer.

Certification Regarding Lobbying

(To be submitted with each bid or offer exceeding \$100,000)

The undersigned certifies, to the best of his or her knowledge and belief, that:

(a) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(b) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

(c) The undersigned shall require that the language paragraph 1 and 2 of this anti-lobbying certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995).

The Contractor, <u>Huitt-Zollars, Inc</u>, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. § 3801 et seq., apply to this certification and disclosure, if any.

RIL)ue

Signature of Contractor's Authorized Official

Gregory R. Wine, P.E., LEED AP/ Executive Vice President Printed Name and Title of Contractor's Authorized Official

September 6, 2022 Date

INSTRUCTIONS FOR COMPLETION OF SF-LLL, DISCLOSURE OF LOBBYING ACTIVITIES

This disclosure form shall be completed by the reporting entity, whether subawardee or prime Federal recipient, at the initiation or receipt of a covered Federal action, or a material change to a previous filing, pursuant to title 31 U.S.C. section 1352. The filing of a form is required for each payment or agreement to make payment to any lobbying entity for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with a covered Federal action. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

1. Identify the type of covered Federal action for which lobbying activity is and/or has been secured to influence the outcome of a covered Federal action.

2. Identify the status of the covered Federal action.

3. Identify the appropriate classification of this report. If this is a follow-up report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last previously submitted report by this reporting entity for this covered Federal action.

4. Enter the full name, address, city, State and zip code of the reporting entity. Include Congressional District, if known. Check the appropriate classification of the reporting entity that designates if it is, or expects to be, a prime or subaward recipient. Identify the tier of the subawardee, e.g., the first subawardee of the prime is the 1st tier. Subawards include but are not limited to subcontracts, subgrants and contract awards under grants.

5. If the organization filing the report in item 4 checks "Subawardee," then enter the full name, address, city, State and zip code of the prime Federal recipient. Include Congressional District, if known.

6. Enter the name of the federal agency making the award or loan commitment. Include at least one organizational level below agency name, if known. For example, Department of Transportation, United States Coast Guard.

7. Enter the Federal program name or description for the covered Federal action (item 1). If known, enter the full Catalog of Federal Domestic Assistance (CFDA) number for grants, cooperative agreements, loans, and loan commitments.

8. Enter the most appropriate Federal identifying number available for the Federal action identified in item 1 (e.g., Request for Proposal (RFP) number; Invitations for Bid (IFB) number; grant announcement number; the contract, grant, or loan award number; the application/proposal control number assigned by the Federal agency). Included prefixes, e.g., "RFP-DE-90-001."

9. For a covered Federal action where there has been an award or loan commitment by the Federal agency, enter the Federal amount of the award/loan commitment for the prime entity identified in item 4 or 5.

10. (a) Enter the full name, address, city, State and zip code of the lobbying registrant under the Lobbying Disclosure Act of 1995 engaged by the reporting entity identified in item 4 to influence the covered Federal action.

(b) Enter the full names of the individual(s) performing services, and include full address if different from 10(a). Enter Last Name, First Name, and Middle Initial (MI).

11. The certifying official shall sign and date the form, print his/her name, title, and telephone number.

According to the Paperwork Reduction Act, as amended, no persons are required to respond to a collection of information unless it displays a valid OMB control Number. The valid OMB control number for this information collection is OMB No. 0348-0046. Public reporting burden for this collection of information is estimated to average 10 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0046), Washington, DC 20503
Disclosure of Lobbying Activities Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352 (See reverse for public burden disclosure)

Type of Federal Action: a. contract a b. grant c. cooperative agreement d. loan e. loan guarantee f. loan insurance	Status of Federal Action: a. bid/offer/application b. initial award c. post-award		Report Type: a. initial filing a b. material change
Name and Address of Reporting Entity:		If Reporting Entity in No. 4 is Subawardee, Enter	
X Prime Subawardee		Name and Address of Prime:	
Huitt-Zollars, Inc.			
10350 Richmond Avenue		Non-Applicable	
Suite 300			
Houston, Texas 77042			
Congressional District, if known:		Congressional District, if known:	
Federal Department/Agency:		7. Federal Program Name/Description:	
			Non Applicable
Non-Applicable		CFDA Number, <i>if applicable</i> :	
Federal Action Number, if known:		9. Award Amount, if known:	
Non-Applicable		Non-Applicable	
10 a Name and Address of Lobbying Pegistrant		a Individuals Performing Services (including)	
(if individual, last name, first name, MI):		address if different from No. 10a)	
		(last name, first name, MI):	
Non-Applicable		Non-Applicable	
			Λ
11. Information requested through this form is		Signatura	RWW
disclosure of lobbying activities is a material			goin
representation of fact upon which reliance was placed		Print Name: Huitt-Zollars, Inc.	
by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31			line Dunsident
U.S.C. 1352. This information will be reported to the		Title: Executive vice President	
Congress semi-annually and will be available for public inspection. Any person who fails to file the required		Telephone No.: 281-496-0066 Date: 9-06-2022	
disclosure shall be subject to a civil penalty of not less			
than \$10,000 and not more than \$100,000 for each such			
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		Standard Form - LLL (Rev. 7-97)	

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