

Abigail Stanhouse, P.E.

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EXPERIENCE

Lockwood, Andrews and Newnam, Inc. (LAN), Houston, Texas

Project Engineer

June 2013-Current

Responsible for projects from inception to commissioning including design, construction plans, contractor procurement, and on-site inspections.

Highlighted Projects:

Clear Lake City Water Authority, Exploration Green Detention Facility

- Designed detention pond layout and reclaimed water line to conform to local design guidelines
- Calculated storm runoff flows to confirm adequate detention volume and to size outfall structure
- Calculated excavation and fill quantities using the average end area method and compared values to excavation and fill quantities obtained utilizing calculations in AutoCAD Civil 3D
- Prepared, signed and sealed construction plans, storm water pollution prevention plans and specifications
- Coordinated design and construction aspects of the project with outside specialists
- Assisted Owner in procuring necessary local and state permits required for the project
- Coordinated and lead public and private meetings concerning the project
- Lead team of engineers through sequence of project tasks to prepare design and construction documents
- Assisted project manager in prioritizing project tasks

Post Wood MUD, Sanitary Sewer Television Inspection and Rehabilitation

- Selected sanitary sewer lines and manholes, within the District service area, to be included in the television project and based on the video, evaluated individual components of the sewer system to perform a condition assessment
- Determined the rehabilitation schedule based off of the condition assessment, allocated budget and selected rehabilitation method
- Prepared, signed and sealed construction plans to rehabilitate a portion of the sanitary system and developed a traffic control plan in accordance with local rules and the TMUTCD
- Managed project budget over the duration of the project

Clear Lake City Water Authority, Ongoing Storm System Improvements

- Collected surveys from local residents and businesses following a flooding event to evaluate data
- Assessed area elevations by reviewing subdivision plans and obtaining topographic survey
- Identified issues that could cause impediment of storm sewer flow or flooding and potential solutions for the corresponding issues
- Prepared feasibility analyses which present potential solutions, and the estimated cost and benefit, in a Preliminary Engineering Report format for the Owner

Menil Foundation, Menil Bygones Site Grading

- Evaluated existing topography to determine the modifications required to optimize the conveyance of storm water away from an art installation

- Coordinated with the structural engineer to obtain information on the structural aspects of the design, such as dimension of the art installation's footings
- Designed layout of drain pipe system to collect and convey site storm water to an adjacent street storm sewer inlet
- Utilized AutoCAD Civil 3D to prepare site grading plan and construction documents

City of Bloomington, IN, Utilities, Engineering Department

Intern

Summer 2012

- Designed, ordered parts, and oversaw \$35,000 construction of gravity sewer and pump system for drying bed at water treatment plant
- Analyzed storm water drainage to assess current system and generate ideas to improve operations
- Performed feasibility study of installing gravity sewer system
- Supervised capital project construction alongside project engineer

City of Bloomington, IN, Public Works, Engineering Department

Intern

Summer 2012

- Developed deliverables educating contractors on expectations of compliance to ADA and MUTCD construction standards for pedestrian safety
- Audited 10 intersections in city limits of high collision and injury rate and compiled and presented reports on crash data and site visits with recommendations to improve safety
- Assisted project engineer with regular site visits

EDUCATION

Purdue University, West Lafayette, IN
Bachelor of Science in Civil Engineering
Emphasis in Environmental Studies

May 2013

INVOLVEMENT

American Society of Civil Engineers (2012-current)

Toastmasters (2016-current)

Lead LAN's volunteer organization and assist in coordinating events (2014-2019)

-Non profits include: National Multiple Sclerosis Society (Texas MSI50), Making it Better, Houston Food Bank, Habitat for Humanity of Northwest Harris County, Depelchin Children's Center, Keep Houston Beautiful