



Joseph Faucett

Project Engineer

Education

BS, Civil Engineering with
Structural Engineering &
Geotechnical Engineering
Concentrations, Clemson
University, 2016

Year Joined AMPHION

2020

Years of Experience

Since 2016

Professional Registrations

Engineer In Training (E.I.T) –
South Carolina
NCEES Record Certificate

Mr. Joseph Griffin Faucett has been a Project Engineer with Amphion Analytical Engineering, P.A. since June of 2020. Mr. Faucett has experience with structural engineering and technical projects including finite element analysis (FEA), structural engineering, and geotechnical engineering.

Mr. Faucett has performed structural analysis of existing components, finite element analysis (FEA), drafting and modeling, construction management, and foundation analysis. He specializes in 3-D modeling of mechanical equipment and structural elements using programs such as AutoCAD and RISA 3-D.

Structural Engineer

Civil and Structural design engineering of existing and new transmission line projects for various utility companies across the nation. Projects consisted of designing and constructing steel transmission structures to support conductor wires that carried voltages ranging from 69 kV to 500 kV. Engineering and analysis of the steel transmission structures and foundations that support them. Used nationally accepted codes such as the National Electric Safety Code (NESC), American Concrete Institute (ACI), and American Society of Civil Engineers (ASCE) to perform engineering design and analysis. Due to the high demand for energy and electricity, projects were on strict time-sensitive schedules that required substantial engineering construction support. Coordination with field construction representatives daily after the construction start date. Performed cost estimation and analysis for different line routes to determine efficiency and the value e of a given line route.

Site Civil Engineer

Design engineer that assisted with grading, storm water, erosion control design of commercial properties and subdivisions. Gained extensive experience with the program, AutoCAD, while designing the proposed layouts of a client's property. Designed concrete storm water layouts that were constructed within the new land developments that minimized the amount of erosion induced by rain storm events. Used historical hydrograph data to predict the amount of rainfall for sediment basin design. Followed local municipality code and met with county officials for approval of projects.

Construction Management

Created cost estimates and managed the construction of wastewater and water treatment plant systems. Duties included but were not limited to quantity take-offs, cost analysis and cost estimation, specialty process equipment submittals, and request for information (RFI) preparation. Coordinated with project managers and superintendents throughout project life cycles to ensure the integrity of the construction as well as the schedule completion dates.