



Capstone Design Project Abstract

Project Title: Dearing Farmer's Market Building

Sponsor: Thomas-McDuffie Archway Partnership

Team Members: Ana Miller, Tylor Thomas, James Williamson

Faculty Mentor: Dr. Matthew Bilskie

Our team has developed the civil site design and structural plans for the City of Dearing, Georgia and their desired Farmer's Market Building. Dearing is a city located outside of Augusta, within McDuffie County. Currently, Dearing--composed of a little over 500 residents--has been hosting gatherings at Dearing Park for farmers and local artists to buy and sell their goods. The current mayor, previous mayor, and other city council members of Dearing have requested a permanent pavilion to host their monthly farmer's market and other community events. This will allow the markets to continue to take place during inclement weather and provide nice shelter throughout the year. Cost is a big component of this design for a small city like Dearing, so we have used our clients feedback to develop a simple, easy to replicate, and practical pavilion plan that the city may use to obtain a grant to bring our structure to reality.

Our team created a civil site plan that walks our clients through the existing conditions, demolition plan, utility plan, erosion control, and developed site plan. In addition, we have made our structural calculations and developed a 3-dimensional plan of what the building should look like, with dimensioning, connections, and cross-sectional views. We also have simple electrical plans and a plumbing plan for the bathroom our clients wanted to include. Our team has spent a lot of time working on this project and we hope our plans can help the City of Dearing reach their goal of increasing the social wellness and economics of the city.