

Miami University Gateways

Oxford, OH



This project redefines the eastern and southern gateways and the main roadway corridor into and through the Miami University campus and the City of Oxford, which incorporated improvements for multi-modal transportation users (vehicular, pedestrian, bicycle), including roadway lighting, access, signal modifications, drainage, and landscape architecture.

Phase One of the project included improvements to Patterson Avenue (US 27) from south Chestnut St to E. Spring St and improvements to Oxford Trenton Road (SR 73) from Patterson Avenue to Dittmer Parking Lot. Bayer Becker performed a topographic survey of the project area using traditional surveying methods and a small unmanned aircraft system (sUAS). The sUAS was also utilized to capture orthophotos, point clouds, and still photos. Roadway plans, drainage design, traffic control, maintenance of traffic, signalization plans and details were prepared for the addition of medians to Patterson Ave and for Oxford Trenton Road, where a bike lane was added to each direction of travel.

Phase Two consisted of additional roadway and safety improvements as well as landscape architecture along the E. High Street (US 27) corridor from S. Campus Avenue to Patterson Avenue and along Patterson Ave from Withrow St to Oxford Trenton Rd. Bayer Becker prepared a safety study and application for the E. High Street project (ODOT project name BUT-27-15.70 to 16.25) which was ultimately awarded \$1 million in funding by ODOT. Design work for Phase Two included the consolidation of several mid-block crosswalks, the installation of high visibility crosswalks, including rectangular rapid flashing beacon installations (RRFBs), the construction of a transit pull off area, transit and emergency vehicle pre-emption, and the conversion of a center two-way left turn lane on E. High St to a raised landscaped median, except where dedicated left turn lanes are to remain at various intersections.



Project Stats	
Client:	Miami University
Location:	Oxford, OH
Year:	2022
Market:	Geovisualization
Project Size:	173.00 Acres

Services Provided:

GEOVISUALIZATION SERVICES

Orthophotography

SURVEYING SERVICES

Topographic Surveys

TRANSPORTATION ENGINEERING SERVICES

Safety Studies
Traffic Impact Studies
Traffic Signal Design