



[East Street Pedestrian Crossing Study – Frederick, Maryland](#)

ATCS was awarded a contract through MWCOG and the City of Frederick Maryland to evaluate potential pedestrian crossing scenarios for the Carroll Creek Trail at East Street. The East Street Pedestrian Crossing Study was administered under the MWCOG TLC (Transportation and Land use Connection) program

The Carroll Creek Trail is in an urban park that is adjacent to the downtown commercial center of Frederick, Maryland. It is the City's intention to expand this highly successful park to the east which requires the crossing of East Street which is currently a terminus of the trail/park. Underground stormwater storage tanks negated the potential for an obvious tunnel under the existing East Street Bridge over Carroll Creek. Further complicating the task was the fact that East Street was about to be connected to I70 via an interchange and the volume of traffic on East Street was anticipated to increase dramatically.

ATCS approached this project with a defined course of action that included a thorough literature search on pedestrian crossings, the use of GIS for base mapping and presentation of potential scenarios, and intimate familiarity with the Carroll Creek Trail including other existing street crossings. The mix of the trail users was a key issue that had to be taken into consideration. These users included pedestrians of all ages, bicyclists, other human powered vehicles such as baby strollers, wagons, and wheel chairs. Any solution that was to be considered would have to be able to be constructed with minimal grades in order to accommodate the variety of users.

Meetings were held with the client at key junctures in order to keep the project on course. Potential solutions were discussed with County staff and “tested” for their political appeal as well as for their practical application on the trail system. The final products of the project included design sketches of the preferred alternative, cost estimates for the recommended design and a final report that explained the process, the potential alternatives and justification for why the final recommendation was chosen.